

Tuesday, March 02, 2010

**LOS ALAMOS**  
**NATIONAL LABORATORY**

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.  
2040 Savage Rd  
Charleston, SC 29407

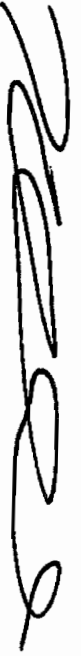
Please analyse the enclosed samples  
according to the schedule indicated:

SHIP DATE: 3/2/2010  
TURNAROUND/REPORT DUE: 4/1/2010  
TURNAROUND REQD: 30 Days

**RAD SCREENING: Yes, Below Background**  
**LAB REQUEST COMMENTS:**

LANL ER SMO CONTACT:

Signature:



Page 1 of 4  
REQUEST NUMBER: 10-2200

These Samples are on:  
LANL Request Number: 10-2200  
Per Agreement Number: 126310011  
Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
EPA:300.0		1	RE36-10-8273	R	2/25/2010	
		1	RE36-10-8274	R	2/25/2010	
		1	RE36-10-8275	R	2/25/2010	
		1	RE36-10-8276	R	2/25/2010	
		1	RE36-10-8277	R	2/25/2010	
		1	RE36-10-8278	R	2/25/2010	
		1	RE36-10-8279	R	2/25/2010	
		1	RE36-10-8280	R	2/25/2010	
		1	RE36-10-8287	R	2/25/2010	

Tuesday, March 02, 2010

REQUEST NUMBER: 10-2200

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS	
	EPA:300.0	1	RE36-10-8288	R	2/25/2010		
		1	RE36-10-8291	R	2/25/2010		
		SW-846:60108	1	RE36-10-8273	R	2/25/2010	
			1	RE36-10-8274	R	2/25/2010	
			1	RE36-10-8275	R	2/25/2010	
			1	RE36-10-8276	R	2/25/2010	
			1	RE36-10-8277	R	2/25/2010	
			1	RE36-10-8278	R	2/25/2010	
			1	RE36-10-8279	R	2/25/2010	
			1	RE36-10-8280	R	2/25/2010	
	SW-846:6020	1	RE36-10-8273	R	2/25/2010		
		1	RE36-10-8274	R	2/25/2010		
		1	RE36-10-8275	R	2/25/2010		
		1	RE36-10-8276	R	2/25/2010		
		1	RE36-10-8277	R	2/25/2010		
		1	RE36-10-8278	R	2/25/2010		
		1	RE36-10-8279	R	2/25/2010		
		1	RE36-10-8280	R	2/25/2010		
		1	RE36-10-8287	R	2/25/2010		
		1	RE36-10-8288	R	2/25/2010		
	SW-846:6850	1	RE36-10-8291	R	2/25/2010		
		1	RE36-10-8273	R	2/25/2010		
		1	RE36-10-8274	R	2/25/2010		
		1	RE36-10-8275	R	2/25/2010		
		1	RE36-10-8276	R	2/25/2010		
		1	RE36-10-8277	R	2/25/2010		
		1	RE36-10-8278	R	2/25/2010		
		1	RE36-10-8279	R	2/25/2010		
		1	RE36-10-8280	R	2/25/2010		
		1	RE36-10-8276	R	2/25/2010		

Tuesday, March 02, 2010

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REQUEST NUMBER: 10-2200

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:6850						
		1	RE36-10-8277	R	2/25/2010	
		1	RE36-10-8278	R	2/25/2010	
		1	RE36-10-8279	R	2/25/2010	
		1	RE36-10-8280	R	2/25/2010	
		1	RE36-10-8287	R	2/25/2010	
		1	RE36-10-8288	R	2/25/2010	
		1	RE36-10-8291	R	2/25/2010	
SW-846:7471A						
		1	RE36-10-8273	R	2/25/2010	
		1	RE36-10-8274	R	2/25/2010	
		1	RE36-10-8275	R	2/25/2010	
		1	RE36-10-8276	R	2/25/2010	
		1	RE36-10-8277	R	2/25/2010	
		1	RE36-10-8278	R	2/25/2010	
		1	RE36-10-8279	R	2/25/2010	
		1	RE36-10-8280	R	2/25/2010	
		1	RE36-10-8287	R	2/25/2010	
		1	RE36-10-8288	R	2/25/2010	
		1	RE36-10-8291	R	2/25/2010	
SW-846:9012A						
		1	RE36-10-8273	R	2/25/2010	
		1	RE36-10-8274	R	2/25/2010	
		1	RE36-10-8275	R	2/25/2010	
		1	RE36-10-8276	R	2/25/2010	
		1	RE36-10-8277	R	2/25/2010	
		1	RE36-10-8278	R	2/25/2010	
		1	RE36-10-8279	R	2/25/2010	
		1	RE36-10-8280	R	2/25/2010	
		1	RE36-10-8287	R	2/25/2010	
		1	RE36-10-8288	R	2/25/2010	

Tuesday, March 02, 2010

REQUEST NUMBER: 10-2200

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:9045C	SW-846:9045C	1	RE36-10-8291	R	2/25/2010	
		1	RE36-10-8273	R	2/25/2010	
		1	RE36-10-8274	R	2/25/2010	
		1	RE36-10-8275	R	2/25/2010	
		1	RE36-10-8276	R	2/25/2010	
		1	RE36-10-8277	R	2/25/2010	
		1	RE36-10-8278	R	2/25/2010	
		1	RE36-10-8279	R	2/25/2010	
		1	RE36-10-8280	R	2/25/2010	
		1	RE36-10-8287	R	2/25/2010	
		1	RE36-10-8288	R	2/25/2010	
		1	RE36-10-8291	R	2/25/2010	

Final Page of REQUEST NUMBER 10-2200



Thursday, March 04, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2200C

LOS ALAMOS

REQUEST NUMBER: 10-2200

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 4/1/2010

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
RE36-10-8288	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8288	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8279	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8279	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8277	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8277	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8280	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8280	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8278	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8278	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8274	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8274	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8291	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8291	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8287	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8287	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8273	1	POLY	METALS+U-GEL	Ice	R

Thursday, March 04, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2200C

LOS ALAMOS

REQUEST NUMBER: 10-2200

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 4/1/2010

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
RE36-10-8273	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8275	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8275	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8276	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8276	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: 2505

EVENT NAME: 4th Qtr. FY09 - SWMU C-36-003 - Threemile Canyon

SAMPLE ID: RE36-10-8273

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA: QBT3		TAM 2/25/10 <del>AAA</del> SED	
TIME COLLECTED(HH:MM)		915		SUB-MEDIA: TUFF 1		NA	
PRS ID: C-36-003		ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID: 36-610821		↓		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		SED		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown sandy silt, moist, roots, rocks

FD RE36-10-8291

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-43

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 36$  dpm $B/\beta \leq 1873$  dpm

PID Ambient Reading

TAM 2/25/10

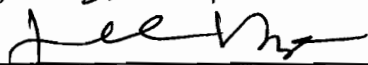

ppm

COLLECTED BY (PRINT)

TLMcfarland

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) J. Branch	2/25/10	(Printed Name) Sherri Newwood	2/25/10
(Signature) 	1530	(Signature) 	1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

**SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY**

EVENT ID: 2505

EVENT NAME: 4th Qtr. FY09 - SWMU C-36-003 - Threemile Canyon

SAMPLE ID: RE36-10-8274

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		Allh
TIME COLLECTED (HH:MM)		0945		SUB-MEDIA:	TUFF 1		NA
PRS ID:	C-36-003		ok	SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610821		↓	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		S	EXCAVATED: YES/NO/NA	6/NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+ N03+pH	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Dark brown silty sand

SAMPLE COMMENTS: NA

LOCATION DESC: 8-43

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha  $\leq$  82 dpm  
 Beta/Gamma  $\leq$  2040 dpm

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

73m 2/25/10

COLLECTED BY (PRINT)

Thmcfarlang

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) <i>J. Branch</i>	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) <i>Sherri Sherwood</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2505

EVENT NAME: 4th Qtr. FY09 - SWMU C-36-003 - Threemile Canyon

SAMPLE ID: RE36-10-8275

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		SED
TIME COLLECTED (HH:MM)		955		SUB-MEDIA:	TUFF 1		NA
PRS ID:	C-36-003		ok	SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610822		↓	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		SED	EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION:
					NA		NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown loamy silt, roots, leaves

FR: RE 36-10-8294

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-49

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 29 dpm  
Beta/Gamma = 1667 dpr.

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


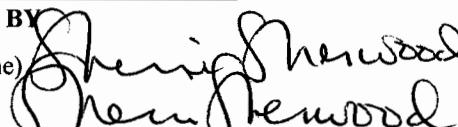
72m 2/25/10

COLLECTED BY (PRINT)

J. McFarlane

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) 	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) Sherrill Newwood (Signature) 	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2505

EVENT NAME: 4th Qtr. FY09 - SWMU C-36-003 - Threemile Canyon

SAMPLE ID: RE36-10-8276

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/25/2010	MEDIA:	QBT3	SED
TIME COLLECTED(HH:MM)		1000	SUB-MEDIA:	TUFF 1	NA
PRS ID:	C-36-003	OK	SAMPLE TECH CODE:	HA	OK
LOCATION ID:	36-610822	↓	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	SED	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA	
			WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION:	NA	
			BOREHOLE DIRECTION:	NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown loamy silt, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-49

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha  $\leq$  36 dpm  
Beta/Gamma  $\leq$  1655 dpm

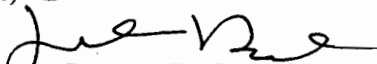

PID  $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$  72 m 2/25/10

COLLECTED BY (PRINT)

ThMcFarland

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) J. Branch	2/25/10	(Printed Name) Sherin Newwood	2/25/10
(Signature) 	1530	(Signature) 	1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2505

EVENT NAME: 4th Qtr. FY09 - SWMU C-36-003 - Threemile Canyon

SAMPLE ID: RE36-10-8277

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA: QBT3		SED	
TIME COLLECTED(HH:MM)		1010		SUB-MEDIA: TUFF 1		NA	
PRS ID: C-36-003		ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID: 36-610823		↓		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		SED		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

moist loamy silt, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-53

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha  $\leq$  20 dpm  
Beta/Gamma  $\leq$  1564 dpm

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

Thm 2/25/10

COLLECTED BY (PRINT)

T. McFarland

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) <i>J. Branch</i>	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) Sherrishenwood (Signature) <i>Sherrishenwood</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2505

EVENT NAME: 4th Qtr. FY09 - SWMU C-36-003 - Threemile Canyon

SAMPLE ID: RE36-10-8278

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		SED
TIME COLLECTED (HH:MM)		1020		SUB-MEDIA:	TUFF 1		NA
PRS ID:	C-36-003	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610823	↓		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	SED		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Brown loamy silt, roots

SAMPLE COMMENTS: NA

LOCATION DESC: 8-53

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha  $\leq$  58 dpm  
Beta/Gamma  $\leq$  2200 dpm

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

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) <i>[Signature]</i>	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) <i>[Signature]</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time



**SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY**

EVENT ID: 2505

EVENT NAME: 4th Qtr. FY09 - SWMU C-36-003 - Threemile Canyon

SAMPLE ID: RE36-10-8279

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	OBT3		A114
TIME COLLECTED (HH:MM)		1120		SUB-MEDIA:	TUFF 1		NA
PRS ID:	C-36-003	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610824			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			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION:
					NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	y	
1		H3	500 ML POLY	Ice	y	
1		METALS+U-GEL	125 ML POLY	Ice	y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	y	

SAMPLE DESC:

Dry silt, leaves

SAMPLE COMMENTS:

NA

LOCATION DESC:

8 - 26

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha  $\leq$  47 dpm  
Beta/Gamma  $\leq$  1961 dpm

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

73m 2/25/10

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

Th McFarlane

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) <i>[Signature]</i>	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) <i>[Signature]</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2505

EVENT NAME: 4th Qtr. FY09 - SWMU C-36-003 - Threemile Canyon

SAMPLE ID: RE36-10-8280

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		Allh
TIME COLLECTED (HH:MM)		1132		SUB-MEDIA:	TUFF 1		NA
PRS ID:	C-36-003	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610824	↓		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	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+ N03+pH	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Dry site

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-26

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 30 dpm  
Beta/Gamma = 1793 dpm

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

72m 2/25/10

COLLECTED BY (PRINT)

J. McFarland

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) <i>[Signature]</i>	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) <i>[Signature]</i> (Signature) <i>[Signature]</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2505

EVENT NAME: 4th Qtr. FY09 - SWMU C-36-003 - Threemile Canyon

SAMPLE ID: RE36-10-8287

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	OBT3	73m 2/25/10	Attn SED
TIME COLLECTED (HH:MM)		0900		SUB-MEDIA:	TUFF 1		NA
PRS ID:	C-36-003	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	36-610828	↓		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	SED		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: moist brown silty sand, roots, leaves, rocks

FTB: RE36-10-8295

SAMPLE COMMENTS:

NA

FD RE36-10-8292

LOCATION DESC: 8-36

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 10 dpm  
Beta/Gamma ≤ 1564 dpmPID  $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$ 

73m 2/25/10

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) <i>J. Branch</i>	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) <i>Henry Newwood</i> (Signature) <i>Henry Newwood</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2505

EVENT NAME: 4th Qtr. FY09 - SWMU C-36-003 - Threemile Canyon

SAMPLE ID: RE36-10-8288

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/25/2010	MEDIA:		QBT3
TIME COLLECTED (HH:MM)		915	SUB-MEDIA:		TUFF 1
PRS ID:	C-36-003	ok	SAMPLE TECH CODE:		HA
LOCATION ID:	36-610828	↓	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	S	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA	WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA	BOREHOLE DIRECTION: NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Dark brown silty sand, roots, rocks

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-36

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 35 dpm  
Beta/Gamma = 1873 dpm

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

72m 2/25/10

COLLECTED BY (PRINT)

J. Branch

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) <i>J. Branch</i>	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) J. Branch (Signature) <i>J. Branch</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2505

EVENT NAME: 4th Qtr. FY09 - SWMU C-36-003 - Threemile Canyon

SAMPLE ID: RE36-10-8291

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	OBT3	7 <sup>2</sup> 2/25/10	Atk SED
TIME COLLECTED (HH:MM)		0915		SUB-MEDIA:	TUFF 1		NA
PRS ID:	C-36-003	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	UNK	36-61083		FIELD QC TYPE:	ED		
LOCATION TYPE:	GENERIC	ok		FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	QC		↓
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	5130		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA	NO/NA			BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	4	
1		8260B	125 ML SEPTUM 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: QC Sample of RE36-10-8273

SAMPLE COMMENTS: NA

LOCATION DESC: 8-43

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 26 dpm  
Beta/Gamma = 1873 dpm

PID  $\frac{\text{Ambient Reading}}{2/25/10} = \text{ppm}$

COLLECTED BY (PRINT)

ThMcFarland

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J Branch (Signature) <i>[Signature]</i>	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) <i>[Signature]</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2505

EVENT NAME: 4th Qtr. FY09 - SWMU C-36-003 - Threemile Canyon

SAMPLE ID: RE36-10-8295

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/25/2010	MEDIA:	NA	ok
TIME COLLECTED (HH:MM)		0850	SUB-MEDIA:	OTHER	
PRS ID:	C-36-003	ok	SAMPLE TECH CODE:	DC	
LOCATION ID:	UNK	36-610828	FIELD QC TYPE:	FTB	
LOCATION TYPE:	GENERIC	ok	FIELD PREP:	NA	
TOP DEPTH:	0		SAMPLE USAGE:	QC	
BOTTOM DEPTH:	0		SCREEN/PORT DESC:		NA
FIELD MATRIX:	S		EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA	
			WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION:	NA	
			BOREHOLE DIRECTION:	NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8260B Trip Blank	40 ML SEPTUM AMBER GLASS	Ice	Y	

SAMPLE DESC: QC Sample of RE 36-10 - 8287

SAMPLE COMMENTS:

FTB

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

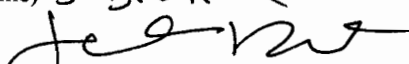

NA

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) 	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) 	Date/Time 2/25/10 1530
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## DATA VALIDATION COVER SHEET

5121-1

## Data Validation Cover Sheet

Records Use only



## Section I.

REQUEST NUMBER: 10-2200 VALIDATION DATE: 5/5/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Larry Fukui 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 checked="" type="checkbox"/> LCMSMS PERCHLORATES |
| <input type="checkbox"/> TPH-DRO           | <input 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                    |
| <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):

- The MS %R was <75% but  $\geq 10\%$ . However, the parent sample result was >4X the spike concentration and, thus, no sample data were qualified based on professional judgment.


Reviewed by: Mary Donovan

Level: I

Date: 05/05/10


VALIDATOR'S SIGNATURE: 

DATE: 5/5/10


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 checked="" type="checkbox"/>	<input 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 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"/>	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 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	25. The MS/MSD percent recovery was >10% but <75%	UJ, PERC12e	J, PERC12e
<input type="checkbox"/>	<input checked="" 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	
<b>5121-2</b>  <b>LC/MS/MS Perchlorate Analytical Data Validation Checklist</b>	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

Perchlorate Analysis Data Sheet

Client Sample No.

RE36-10-8288

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 963901

Extraction Type: Solid Prep

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520001

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 84

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.598	2.39	11.1	ug/kg		1	21-MAR-10 05:20	per0320106a
	Perchlorate Isotope Ratio			3.09			1	21-MAR-10 05:20	per0320106a
14797-73-0	Perchlorate-101	.598	2.39	10.9	ug/kg		1	21-MAR-10 05:20	per0320106a
	Perchlorate-O(18)			5.74	ug/kg		1	21-MAR-10 05:20	per0320106a

<sup>^</sup> 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 <sup>1</sup>  
Aliquot %Solids

LMF  
5/5/10

## Perchlorate Analysis Data Sheet

PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

Lab Name: GEL Laboratories LLC  
 Lab Code: GEL  
 Instrument: LCMSMS  
 Method: SW846 6850 Modified  
 Matrix: SOIL  
 Extraction Batch ID: 963901  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE36-10-8279  
 Date Received: 03-MAR-10  
 GEL Job No (SDG): 10-2200  
 GEL Sample ID: 248520002  
 Date Filtered: 12-MAR-10  
 Injection Volume (uL): 20  
 %Solids: 92.9

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	2.69	10.8	27.0	ug/kg		5	21-MAR-10 15:47	per0321012a
	Perchlorate Isotope Ratio			3.04			5	21-MAR-10 15:47	per0321012a
14797-73-0	Perchlorate-101	2.69	10.8	26.0	ug/kg		5	21-MAR-10 15:47	per0321012a
	Perchlorate-O(18)			24.4	ug/kg		5	21-MAR-10 15:47	per0321012a

<sup>^</sup> 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  $\frac{1}{\% \text{Solids}}$

LMF  
5/5/10

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: 963901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8277

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520003

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 75

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.67	2.68	0.670	ug/kg	U	1	21-MAR-10 06:06	per0320113a
	Perchlorate Isotope Ratio						1	21-MAR-10 06:06	per0320113a
14797-73-0	Perchlorate-101	.67	2.68	0.670	ug/kg	U	1	21-MAR-10 06:06	per0320113a
	Perchlorate-O(18)			6.09	ug/kg		1	21-MAR-10 06:06	per0320113a

<sup>^</sup> 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

LMF  
5/5/10

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:** 263901  
**Extraction Type:** Solid Prep  
**Sample Volume/Weight:** 2.00 g  
**Concentrated Extract Volume:** 20.0  
**Client Sample No.** RE36-10-8280  
**Date Received:** 03-MAR-10  
**GEL Job No (SDG):** 10-2200  
**GEL Sample ID:** 248520004  
**Date Filtered:** 12-MAR-10  
**Injection Volume (uL):** 20  
**%Solids:** 90.5

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	2.21	8.84	21.6	ug/kg		4	21-MAR-10 15:56	per0321013a
	Perchlorate Isotope Ratio			2.95			4	21-MAR-10 15:56	per0321013a
14797-73-0	Perchlorate-101	2.21	8.84	21.5	ug/kg		4	21-MAR-10 15:56	per0321013a
	Perchlorate-O(18)			22.4	ug/kg		4	21-MAR-10 15:56	per0321013a

<sup>^</sup> 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

LMF  
 5/5/10

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: 963901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8278

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520005

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 93.6

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.534	2.14	0.534	ug/kg	U	1	21-MAR-10 16:06	per0321014a
	Perchlorate Isotope Ratio						1	21-MAR-10 16:06	per0321014a
14797-73-0	Perchlorate-101	.534	2.14	0.534	ug/kg	U	1	21-MAR-10 16:06	per0321014a
	Perchlorate-O(18)			5.28	ug/kg		1	21-MAR-10 16:06	per0321014a

<sup>^</sup> 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  $\frac{1}{\% \text{Solids}}$

LMF  
5/5/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC  
 Lab Code: GEL  
 Instrument: LCMSMS  
 Method: SW846 6850 Modified  
 Matrix: SOIL  
 Extraction Batch ID: 963901  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE36-10-8274  
 Date Received: 03-MAR-10  
 GEL Job No (SDG): 10-2200  
 GEL Sample ID: 248520006  
 Date Filtered: 12-MAR-10  
 Injection Volume (uL): 20  
 %Solids: 90

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File-ID
14797-73-0	Perchlorate	.557	2.23	0.926	ug/kg	J	1	21-MAR-10 06:26	per0320116a
	Perchlorate Isotope Ratio			3.03			1	21-MAR-10 06:26	per0320116a
14797-73-0	Perchlorate-101	.557	2.23	0.924	ug/kg	J	1	21-MAR-10 06:26	per0320116a
	Perchlorate-O(18)			5.14	ug/kg		1	21-MAR-10 06:26	per0320116a

<sup>^</sup> 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 %Solids  
 Aliquot

LMF  
 5/5/10



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: 263901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8291

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520007

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 71

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.704	2.81	1.16	ug/kg	J	1	21-MAR-10 06:32	per0320117a
	Perchlorate Isotope Ratio			2.81			1	21-MAR-10 06:32	per0320117a
14797-73-0	Perchlorate-101	.704	2.81	1.25	ug/kg	J	1	21-MAR-10 06:32	per0320117a
	Perchlorate-O(18)			6.69	ug/kg		1	21-MAR-10 06:32	per0320117a

<sup>^</sup> 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  $\frac{1}{\% \text{Solids}}$

LMF  
5/5/10

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: 963901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8287

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520008

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 67

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.746	2.98	7.15	ug/kg		1	21-MAR-10 06:39	per0320118a
	Perchlorate Isotope Ratio			2.99			1	21-MAR-10 06:39	per0320118a
14797-73-0	Perchlorate-101	.746	2.98	7.26	ug/kg		1	21-MAR-10 06:39	per0320118a
	Perchlorate-O(18)			6.99	ug/kg		1	21-MAR-10 06:39	per0320118a

<sup>^</sup> 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

LMF  
5/5/10

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: 263901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8273

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520009

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 71

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.705	2.82	0.991	ug/kg	J	1	21-MAR-10 06:45	per0320119a
	Perchlorate Isotope Ratio			3.4			1	21-MAR-10 06:45	per0320119a
14797-73-0	Perchlorate-101	.705	2.82	0.882	ug/kg	J	1	21-MAR-10 06:45	per0320119a
	Perchlorate-O(18)			6.53	ug/kg		1	21-MAR-10 06:45	per0320119a

<sup>^</sup> 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

LMF  
5/5/10

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: 963901  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE36-10-8275  
 Date Received: 03-MAR-10  
 GEL Job No (SDG): 10-2200  
 GEL Sample ID: 248520010  
 Date Filtered: 12-MAR-10  
 Injection Volume (uL): 20  
 %Solids: 60

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.835	3.34	0.835	ug/kg	U	1	21-MAR-10 06:52	per0320120a
	Perchlorate Isotope Ratio						1	21-MAR-10 06:52	per0320120a
14797-73-0	Perchlorate-101	.835	3.34	0.835	ug/kg	U	1	21-MAR-10 06:52	per0320120a
	Perchlorate-O(18)			7.73	ug/kg		1	21-MAR-10 06:52	per0320120a

<sup>^</sup> 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

LMF  
5/5/10

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: 263901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8276

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520011

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 85

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.586	2.34	0.642	ug/kg	J	1	21-MAR-10 06:58	per0320121a
	Perchlorate Isotope Ratio			2.92			1	21-MAR-10 06:58	per0320121a
14797-73-0	Perchlorate-101	.586	2.34	0.667	ug/kg	J	1	21-MAR-10 06:58	per0320121a
	Perchlorate-O(18)			5.37	ug/kg		1	21-MAR-10 06:58	per0320121a

<sup>^</sup> 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  $\frac{1}{\% \text{Solids}}$

LMF  
5/5/10

## DATA VALIDATION COVER SHEET

5118-1

## Data Validation Cover Sheet

Records Use only



## Section I.

REQUEST NUMBER: 10-2200 VALIDATION DATE: 5/5/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Larry Fukui ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):


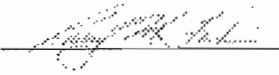
- |  |  |   |  |
|--|--|---|--|
| <input type="checkbox"/> TPH-GRO                 | <input type="checkbox"/> HIGH EXPLOSIVES   | <input type="checkbox"/> DIOXIN FURANS          | <input type="checkbox"/> LCMSMS PERCHLORATES |
| <input type="checkbox"/> TPH-DRO                 | <input checked="" type="checkbox"/> 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         |
| <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 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):


1. In the MB, K was detected. The associated sample results were detects >50X the MB concentration and, thus, were not qualified based on professional judgment.
2. In the ICB and/or CCBs, Ag, Hg, and K were detected. The results for Ag in samples RE36-10-8275 and -8276 and for Hg in samples -8276 and -8278 were detects ≤5X the greatest blank concentrations and, thus, were qualified U,I4b. All other associated sample results were either detects >5X the greatest blank concentrations or were ND and, thus, were not qualified.
3. In the FR blank (sample -8294 from RN 10-2198) associated with field samples -8275 and -8276, Na was detected. The associated sample results were detects ≤5X the FR blank concentration and, thus, were qualified U,I4d.
4. The MS %R was < the laboratory LAL but ≥10% for Na. The associated results in samples -8275 and -8276 were qualified ND from FR blank contamination and, thus, were qualified UJ,I6a. All other associated sample results were detects and, thus, were qualified J-,I6a. The MS %Rs were > the laboratory UAL for Ba, Ca, Pb, Mg, K, and Zn. The associated sample results were detects and, thus, were qualified J+,I6b. The MS %Rs were also > the laboratory UAL for Al, Fe, and Mn. However, the associated parent sample results were >4X the spike concentrations and, thus, no sample results were qualified, based on professional judgment.
5. The duplicate RPD was >35% for Ca, and both the duplicate and parent sample results were ≥5X the PQL. The associated sample results were detects and, thus, were qualified J,I10a.
6. It should be noted that the matrix QC parent sample for all analyses except CVAA was from another LANL RN. No sample results were qualified.

DATA VALIDATION COVER SHEET	
5118-1	Records Use only
Data Validation Cover Sheet	
VALIDATOR'S SIGNATURE:  DATE: 5/5/10	
Form 5118-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project


METALS ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5118-2</b>  <b>Metals Analytical Data Validation Checklist</b>	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	
<b>5118-2</b>  <b>Metals Analytical Data Validation Checklist</b>	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"/>	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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	23. The associated matrix spike recovery was $<$ 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 $>$ the UAL. Follow the external laboratory limits located within the associated data package.	UJ, I6b	J+, I6b

METALS ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5118-2</b>  <b>Metals Analytical Data Validation Checklist</b>	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"/>	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 checked="" type="checkbox"/>	<input 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	
<b>5118-2</b>  <b>Metals Analytical Data Validation Checklist</b>	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: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520001

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8288

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 84

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4610000	ug/Kg		8090	23800	23800	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-36-0	Antimony	1190	ug/Kg	U	393	1190	1190	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-38-2	Arsenic	1.06	mg/kg	J	0.23	1.15	1.15	2	MS	SKJ	04/14/10 01:05	100413-3	962569
7440-39-3	Barium J+,I6b	55800	ug/Kg		119	595	595	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-41-7	Beryllium	0.596	mg/kg		0.023	0.115	0.115	2	MS	SKJ	04/14/10 01:05	100413-3	962569
7440-43-9	Cadmium	595	ug/Kg	U	119	595	595	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-70-2	Calcium J+,I6b	2340000	ug/Kg		9520	29700	29700	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-47-3	Chromium	7820	ug/Kg		178	595	595	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-48-4	Cobalt	2360	ug/Kg		178	595	595	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-50-8	Copper	4120	ug/Kg		357	1190	1190	1	P	HSC	03/30/10 22:08	033010B-1	962575
7439-89-6	Iron	9280000	ug/Kg		9520	29700	29700	1	P	HSC	03/30/10 22:08	033010B-1	962575
7439-92-1	Lead J+,I6b	7430	ug/Kg		297	1190	1190	1	P	HSC	03/30/10 22:08	033010B-1	962575
7439-95-4	Magnesium J+,I6b	987000	ug/Kg		10100	35700	35700	1	P	HSC	03/30/10 22:08	033010B-1	962575
7439-96-5	Manganese	418000	ug/Kg		238	1190	1190	1	P	HSC	03/30/10 22:08	033010B-1	962575
7439-97-6	Mercury	37.8	ug/kg		4.38	12.9	12.9	1	AV	JXL1	03/17/10 13:53	031710S1-4	964749
7440-02-0	Nickel	4.48	mg/kg		0.115	0.46	0.46	2	MS	SKJ	04/14/10 01:05	100413-3	962569
7440-09-7	Potassium J+,I6b	964000	ug/Kg		7610	29700	29700	1	P	HSC	03/30/10 22:08	033010B-1	962575
7782-49-2	Selenium	1.15	mg/kg	U	0.575	1.15	1.15	2	MS	SKJ	04/14/10 01:05	100413-3	962569
7440-22-4	Silver	1030	ug/Kg		119	595	595	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-23-5	Sodium J-,I6a	78400	ug/Kg		8330	29700	29700	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-28-0	Thallium	0.230	mg/kg	U	0.069	0.23	0.23	2	MS	SKJ	04/14/10 01:05	100413-3	962569
7440-61-1	Uranium	0.60	mg/kg		0.0152	0.046	0.046	2	MS	SKJ	04/14/10 01:05	100413-3	962569
7440-62-2	Vanadium	10000	ug/Kg		119	595	595	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-66-6	Zinc J+,I6b	39800	ug/Kg		393	1190	1190	1	P	HSC	03/30/10 22:08	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.52	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.503	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.558	g	30	mL	03/16/10	TXB3

LMF  
5/5/10

**METALS**  
-1-  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520002

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8279

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 92.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5830000	ug/Kg		6800	20000	20000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7440-36-0	Antimony	1000	ug/Kg	U	330	1000	1000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7440-38-2	Arsenic	3.57	mg/kg		0.208	1.04	1.04	2	MS	SKJ	04/14/10 01:09	100413-3	962569
7440-39-3	Barium	85600	ug/Kg		100	500	500	1	P	HSC	03/30/10 22:10	033010B-1	962575
7440-41-7	Beryllium	0.723	mg/kg		0.0208	0.104	0.104	2	MS	SKJ	04/14/10 01:09	100413-3	962569
7440-43-9	Cadmium	542	ug/Kg		100	500	500	1	P	HSC	03/30/10 22:10	033010B-1	962575
7440-70-2	Calcium	5420000	ug/Kg		8000	25000	25000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7440-47-3	Chromium	101000	ug/Kg		150	500	500	1	P	HSC	03/30/10 22:10	033010B-1	962575
7440-48-4	Cobalt	1580	ug/Kg		150	500	500	1	P	HSC	03/30/10 22:10	033010B-1	962575
7440-50-8	Copper	18500	ug/Kg		300	1000	1000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7439-89-6	Iron	9900000	ug/Kg		8000	25000	25000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7439-92-1	Lead	19400	ug/Kg		250	1000	1000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7439-95-4	Magnesium	1350000	ug/Kg		8500	30000	30000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7439-96-5	Manganese	356000	ug/Kg		200	1000	1000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7439-97-6	Mercury	582	ug/kg		4.14	12.2	12.2	1	AV	JXL1	03/17/10 14:03	031710S1-4	964749
7440-02-0	Nickel	3.65	mg/kg		0.104	0.416	0.416	2	MS	SKJ	04/14/10 01:09	100413-3	962569
7440-09-7	Potassium	1410000	ug/Kg		6400	25000	25000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7782-49-2	Selenium	1.04	mg/kg	U	0.521	1.04	1.04	2	MS	SKJ	04/14/10 01:09	100413-3	962569
7440-22-4	Silver	348000	ug/Kg		1000	5000	5000	10	P	HSC	04/01/10 04:59	033110B-2	962575
7440-23-5	Sodium	93100	ug/Kg		7000	25000	25000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7440-28-0	Thallium	0.137	mg/kg	J	0.0625	0.208	0.208	2	MS	SKJ	04/14/10 01:09	100413-3	962569
7440-61-1	Uranium	5.2	mg/kg		0.0137	0.0416	0.0416	2	MS	SKJ	04/14/10 01:09	100413-3	962569
7440-62-2	Vanadium	22500	ug/Kg		100	500	500	1	P	HSC	03/30/10 22:10	033010B-1	962575
7440-66-6	Zinc	89700	ug/Kg		330	1000	1000	1	P	HSC	03/30/10 22:10	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.517	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.538	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.53	g	30	mL	03/16/10	TXB3

LMF  
5/5/10

**METALS**  
-1-  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520003

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8277

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 75

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4970000	ug/Kg		8290	24400	24400	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-36-0	Antimony	1220	ug/Kg	U	402	1220	1220	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-38-2	Arsenic	1.28	mg/kg	J	0.268	1.34	1.34	2	MS	SKJ	04/14/10 01:13	100413-3	962569
7440-39-3	Barium J+,I6b	63100	ug/Kg		122	609	609	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-41-7	Beryllium	0.718	mg/kg		0.0268	0.134	0.134	2	MS	SKJ	04/14/10 01:13	100413-3	962569
7440-43-9	Cadmium	609	ug/Kg	U	122	609	609	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-70-2	Calcium J+,I6b	2430000	ug/Kg		9750	30500	30500	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-47-3	Chromium	11300	ug/Kg		183	609	609	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-48-4	Cobalt	2420	ug/Kg		183	609	609	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-50-8	Copper	4750	ug/Kg		366	1220	1220	1	P	HSC	03/30/10 22:12	033010B-1	962575
7439-89-6	Iron	9830000	ug/Kg		9750	30500	30500	1	P	HSC	03/30/10 22:12	033010B-1	962575
7439-92-1	Lead J+,I6b	9310	ug/Kg		305	1220	1220	1	P	HSC	03/30/10 22:12	033010B-1	962575
7439-95-4	Magnesium J+,I6b	1050000	ug/Kg		10400	36600	36600	1	P	HSC	03/30/10 22:12	033010B-1	962575
7439-96-5	Manganese	340000	ug/Kg		244	1220	1220	1	P	HSC	03/30/10 22:12	033010B-1	962575
7439-97-6	Mercury	53.1	ug/kg		4.88	14.4	14.4	1	AV	JXL1	03/17/10 14:05	031710S1-4	964749
7440-02-0	Nickel	4.27	mg/kg		0.134	0.535	0.535	2	MS	SKJ	04/14/10 01:13	100413-3	962569
7440-09-7	Potassium J+,I6b	1040000	ug/Kg		7800	30500	30500	1	P	HSC	03/30/10 22:12	033010B-1	962575
7782-49-2	Selenium	1.34	mg/kg	U	0.669	1.34	1.34	2	MS	SKJ	04/14/10 01:13	100413-3	962569
7440-22-4	Silver	609	ug/Kg	U	122	609	609	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-23-5	Sodium J-,I6a	76500	ug/Kg		8530	30500	30500	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-28-0	Thallium	0.268	mg/kg	U	0.0803	0.268	0.268	2	MS	SKJ	04/14/10 01:13	100413-3	962569
7440-61-1	Uranium	1.72	mg/kg		0.0177	0.0535	0.0535	2	MS	SKJ	04/14/10 01:13	100413-3	962569
7440-62-2	Vanadium	10000	ug/Kg		122	609	609	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-66-6	Zinc J+,I6b	49900	ug/Kg		402	1220	1220	1	P	HSC	03/30/10 22:12	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.501	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.55	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.56	g	30	mL	03/16/10	TXB3

LMF  
5/5/10

**METALS**  
-1-  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520004

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8280

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 90.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6040000	ug/Kg		7290	21400	21400	1	P	HSC	03/30/10 22:14	033010B-1	962575
7440-36-0	Antimony	1070	ug/Kg	U	354	1070	1070	1	P	HSC	03/30/10 22:14	033010B-1	962575
7440-38-2	Arsenic	4.12	mg/kg		0.215	1.07	1.07	2	MS	SKJ	04/14/10 01:25	100413-3	962569
7440-39-3	Barium J+,I6b	84900	ug/Kg		107	536	536	1	P	HSC	03/30/10 22:14	033010B-1	962575
7440-41-7	Beryllium	0.662	mg/kg		0.0215	0.107	0.107	2	MS	SKJ	04/14/10 01:25	100413-3	962569
7440-43-9	Cadmium	1090	ug/Kg		107	536	536	1	P	HSC	03/30/10 22:14	033010B-1	962575
7440-70-2	Calcium J+,I6b	5290000	ug/Kg		8580	26800	26800	1	P	HSC	03/30/10 22:14	033010B-1	962575
7440-47-3	Chromium	90200	ug/Kg		161	536	536	1	P	HSC	03/30/10 22:14	033010B-1	962575
7440-48-4	Cobalt	1820	ug/Kg		161	536	536	1	P	HSC	03/30/10 22:14	033010B-1	962575
7440-50-8	Copper	27800	ug/Kg		322	1070	1070	1	P	HSC	03/30/10 22:14	033010B-1	962575
7439-89-6	Iron	8370000	ug/Kg		8580	26800	26800	1	P	HSC	03/30/10 22:14	033010B-1	962575
7439-92-1	Lead J+,I6b	21800	ug/Kg		268	1070	1070	1	P	HSC	03/30/10 22:14	033010B-1	962575
7439-95-4	Magnesium J+,I6b	1340000	ug/Kg		9110	32200	32200	1	P	HSC	03/30/10 22:14	033010B-1	962575
7439-96-5	Manganese	335000	ug/Kg		214	1070	1070	1	P	HSC	03/30/10 22:14	033010B-1	962575
7439-97-6	Mercury	815	ug/kg		8.39	24.7	24.7	2	AV	JXL1	03/17/10 14:07	031710S1-4	964749
7440-02-0	Nickel	3.85	mg/kg		0.107	0.43	0.43	2	MS	SKJ	04/14/10 01:25	100413-3	962569
7440-09-7	Potassium J+,I6b	1540000	ug/Kg		6860	26800	26800	1	P	HSC	03/30/10 22:14	033010B-1	962575
7782-49-2	Selenium	1.07	mg/kg	U	0.537	1.07	1.07	2	MS	SKJ	04/14/10 01:25	100413-3	962569
7440-22-4	Silver	338000	ug/Kg		1070	5360	5360	10	P	HSC	04/01/10 05:01	033110B-2	962575
7440-23-5	Sodium J-,I6a	85000	ug/Kg		7510	26800	26800	1	P	HSC	03/30/10 22:14	033010B-1	962575
7440-28-0	Thallium	0.163	mg/kg	J	0.0645	0.215	0.215	2	MS	SKJ	04/14/10 01:25	100413-3	962569
7440-61-1	Uranium	5.96	mg/kg		0.0142	0.043	0.043	2	MS	SKJ	04/14/10 01:25	100413-3	962569
7440-62-2	Vanadium	23300	ug/Kg		107	536	536	1	P	HSC	03/30/10 22:14	033010B-1	962575
7440-66-6	Zinc J+,I6b	74900	ug/Kg		354	1070	1070	1	P	HSC	03/30/10 22:14	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.514	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.515	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.537	g	30	mL	03/16/10	TXB3

LMF  
5/5/10

**METALS**  
-1-  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520005

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8278

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 93.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4510000	ug/Kg		7130	21000	21000	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-36-0	Antimony	1050	ug/Kg	U	346	1050	1050	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-38-2	Arsenic	1.16	mg/kg		0.209	1.04	1.04	2	MS	SKJ	04/14/10 01:29	100413-3	962569
7440-39-3	Barium J+,I6b	59700	ug/Kg		105	524	524	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-41-7	Beryllium	0.569	mg/kg		0.0209	0.104	0.104	2	MS	SKJ	04/14/10 01:29	100413-3	962569
7440-43-9	Cadmium	524	ug/Kg	U	105	524	524	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-70-2	Calcium J+,I6b	1290000	ug/Kg		8390	26200	26200	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-47-3	Chromium	4280	ug/Kg		157	524	524	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-48-4	Cobalt	2710	ug/Kg		157	524	524	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-50-8	Copper	3670	ug/Kg		315	1050	1050	1	P	HSC	03/30/10 22:21	033010B-1	962575
7439-89-6	Iron	10200000	ug/Kg		8390	26200	26200	1	P	HSC	03/30/10 22:21	033010B-1	962575
7439-92-1	Lead J+,I6b	7220	ug/Kg		262	1050	1050	1	P	HSC	03/30/10 22:21	033010B-1	962575
7439-95-4	Magnesium J+,I6b	901000	ug/Kg		8920	31500	31500	1	P	HSC	03/30/10 22:21	033010B-1	962575
7439-96-5	Manganese	365000	ug/Kg		210	1050	1050	1	P	HSC	03/30/10 22:21	033010B-1	962575
7439-97-6	Mercury U,I4b	9.27	ug/kg	J	4.21	12.4	12.4	1	AV	JXL1	03/17/10 14:13	031710S1-4	964749
7440-02-0	Nickel	3.75	mg/kg		0.104	0.417	0.417	2	MS	SKJ	04/14/10 01:29	100413-3	962569
7440-09-7	Potassium J+,I6b	861000	ug/Kg		6710	26200	26200	1	P	HSC	03/30/10 22:21	033010B-1	962575
7782-49-2	Selenium	1.04	mg/kg	U	0.521	1.04	1.04	2	MS	SKJ	04/14/10 01:29	100413-3	962569
7440-22-4	Silver	524	ug/Kg	U	105	524	524	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-23-5	Sodium J-,I6a	60300	ug/Kg		7340	26200	26200	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-28-0	Thallium	0.209	mg/kg	U	0.0626	0.209	0.209	2	MS	SKJ	04/14/10 01:29	100413-3	962569
7440-61-1	Uranium	0.437	mg/kg		0.0138	0.0417	0.0417	2	MS	SKJ	04/14/10 01:29	100413-3	962569
7440-62-2	Vanadium	12000	ug/Kg		105	524	524	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-66-6	Zinc J+,I6b	40100	ug/Kg		346	1050	1050	1	P	HSC	03/30/10 22:21	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.512	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.509	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.517	g	30	mL	03/16/10	TXB3

LMF  
5/5/10



**METALS**  
-1-  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520006

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8274

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 90

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4360000	ug/Kg		6500	19100	19100	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-36-0	Antimony	955	ug/Kg	U	315	955	955	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-38-2	Arsenic	1.43	mg/kg		0.191	0.955	0.955	2	MS	SKJ	04/14/10 01:33	100413-3	962569
7440-39-3	Barium	66600	ug/Kg		95.5	478	478	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-41-7	Beryllium	0.680	mg/kg		0.0191	0.0955	0.0955	2	MS	SKJ	04/14/10 01:33	100413-3	962569
7440-43-9	Cadmium	478	ug/Kg	U	95.5	478	478	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-70-2	Calcium	1860000	ug/Kg		7640	23900	23900	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-47-3	Chromium	10700	ug/Kg		143	478	478	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-48-4	Cobalt	2720	ug/Kg		143	478	478	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-50-8	Copper	5440	ug/Kg		287	955	955	1	P	HSC	03/30/10 22:23	033010B-1	962575
7439-89-6	Iron	9200000	ug/Kg		7640	23900	23900	1	P	HSC	03/30/10 22:23	033010B-1	962575
7439-92-1	Lead	9260	ug/Kg		239	955	955	1	P	HSC	03/30/10 22:23	033010B-1	962575
7439-95-4	Magnesium	972000	ug/Kg		8120	28700	28700	1	P	HSC	03/30/10 22:23	033010B-1	962575
7439-96-5	Manganese	493000	ug/Kg		191	955	955	1	P	HSC	03/30/10 22:23	033010B-1	962575
7439-97-6	Mercury	71.3	ug/kg		4.14	12.2	12.2	1	AV	JXL1	03/17/10 14:15	031710S1-4	964749
7440-02-0	Nickel	4.4	mg/kg		0.0955	0.382	0.382	2	MS	SKJ	04/14/10 01:33	100413-3	962569
7440-09-7	Potassium	961000	ug/Kg		6110	23900	23900	1	P	HSC	03/30/10 22:23	033010B-1	962575
7782-49-2	Selenium	0.955	mg/kg	U	0.478	0.955	0.955	2	MS	SKJ	04/14/10 01:33	100413-3	962569
7440-22-4	Silver	2960	ug/Kg		95.5	478	478	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-23-5	Sodium	60600	ug/Kg		6690	23900	23900	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-28-0	Thallium	0.0862	mg/kg	J	0.0573	0.191	0.191	2	MS	SKJ	04/14/10 01:33	100413-3	962569
7440-61-1	Uranium	1.17	mg/kg		0.0126	0.0382	0.0382	2	MS	SKJ	04/14/10 01:33	100413-3	962569
7440-62-2	Vanadium	10400	ug/Kg		95.5	478	478	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-66-6	Zinc	44800	ug/Kg		315	955	955	1	P	HSC	03/30/10 22:23	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.583	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.583	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.549	g	30	mL	03/16/10	TXB3

LMF  
5/5/10

**METALS**  
-1-  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520007

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8291

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 71

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4990000	ug/Kg		8960	26400	26400	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-36-0	Antimony	1320	ug/Kg	U	435	1320	1320	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-38-2	Arsenic	1.6	mg/kg		0.267	1.33	1.33	2	MS	SKJ	04/14/10 01:38	100413-3	962569
7440-39-3	Barium J+,I6b	103000	ug/Kg		132	659	659	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-41-7	Beryllium	0.653	mg/kg		0.0267	0.133	0.133	2	MS	SKJ	04/14/10 01:38	100413-3	962569
7440-43-9	Cadmium	659	ug/Kg	U	132	659	659	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-70-2	Calcium J+,I6b	3690000	ug/Kg		10500	32900	32900	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-47-3	Chromium	9220	ug/Kg		198	659	659	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-48-4	Cobalt	2630	ug/Kg		198	659	659	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-50-8	Copper	8460	ug/Kg		395	1320	1320	1	P	HSC	03/30/10 22:25	033010B-1	962575
7439-89-6	Iron	8900000	ug/Kg		10500	32900	32900	1	P	HSC	03/30/10 22:25	033010B-1	962575
7439-92-1	Lead J+,I6b	14700	ug/Kg		329	1320	1320	1	P	HSC	03/30/10 22:25	033010B-1	962575
7439-95-4	Magnesium J+,I6b	1120000	ug/Kg		11200	39500	39500	1	P	HSC	03/30/10 22:25	033010B-1	962575
7439-96-5	Manganese	615000	ug/Kg		264	1320	1320	1	P	HSC	03/30/10 22:25	033010B-1	962575
7439-97-6	Mercury	198	ug/kg		5.6	16.5	16.5	1	AV	JXL1	03/17/10 14:17	031710S1-4	964749
7440-02-0	Nickel	4.7	mg/kg		0.133	0.533	0.533	2	MS	SKJ	04/14/10 01:38	100413-3	962569
7440-09-7	Potassium J+,I6b	1200000	ug/Kg		8430	32900	32900	1	P	HSC	03/30/10 22:25	033010B-1	962575
7782-49-2	Selenium	1.33	mg/kg	U	0.666	1.33	1.33	2	MS	SKJ	04/14/10 01:38	100413-3	962569
7440-22-4	Silver	5230	ug/Kg		132	659	659	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-23-5	Sodium J-,I6a	68800	ug/Kg		9220	32900	32900	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-28-0	Thallium	0.106	mg/kg	J	0.08	0.267	0.267	2	MS	SKJ	04/14/10 01:38	100413-3	962569
7440-61-1	Uranium	2.84	mg/kg		0.0176	0.0533	0.0533	2	MS	SKJ	04/14/10 01:38	100413-3	962569
7440-62-2	Vanadium	10600	ug/Kg		132	659	659	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-66-6	Zinc J+,I6b	46200	ug/Kg		435	1320	1320	1	P	HSC	03/30/10 22:25	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.528	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.534	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.513	g	30	mL	03/16/10	TXB3

LMF  
5/5/10

**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520008

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8287

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 67

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	7420000	ug/Kg		9510	28000	28000	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-36-0	Antimony	1400	ug/Kg	U	462	1400	1400	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-38-2	Arsenic	1.68	mg/kg		0.276	1.38	1.38	2	MS	SKJ	04/14/10 01:42	100413-3	962569
7440-39-3	Barium J+,I6b	116000	ug/Kg		140	700	700	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-41-7	Beryllium	0.680	mg/kg		0.0276	0.138	0.138	2	MS	SKJ	04/14/10 01:42	100413-3	962569
7440-43-9	Cadmium	700	ug/Kg	U	140	700	700	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-70-2	Calcium J+,I6b	4470000	ug/Kg		11200	35000	35000	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-47-3	Chromium	21100	ug/Kg		210	700	700	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-48-4	Cobalt	3690	ug/Kg		210	700	700	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-50-8	Copper	9220	ug/Kg		420	1400	1400	1	P	HSC	03/30/10 22:27	033010B-1	962575
7439-89-6	Iron	12800000	ug/Kg		11200	35000	35000	1	P	HSC	03/30/10 22:27	033010B-1	962575
7439-92-1	Lead J+,I6b	14600	ug/Kg		350	1400	1400	1	P	HSC	03/30/10 22:27	033010B-1	962575
7439-95-4	Magnesium J+,I6b	1690000	ug/Kg		11900	42000	42000	1	P	HSC	03/30/10 22:27	033010B-1	962575
7439-96-5	Manganese	860000	ug/Kg		280	1400	1400	1	P	HSC	03/30/10 22:27	033010B-1	962575
7439-97-6	Mercury	139	ug/kg		6.08	17.9	17.9	1	AV	JXL1	03/17/10 14:19	031710S1-4	964749
7440-02-0	Nickel	5.89	mg/kg		0.138	0.551	0.551	2	MS	SKJ	04/14/10 01:42	100413-3	962569
7440-09-7	Potassium J+,I6b	1790000	ug/Kg		8950	35000	35000	1	P	HSC	03/30/10 22:27	033010B-1	962575
7782-49-2	Selenium	1.38	mg/kg	U	0.689	1.38	1.38	2	MS	SKJ	04/14/10 01:42	100413-3	962569
7440-22-4	Silver	6490	ug/Kg		140	700	700	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-23-5	Sodium J-,I6a	102000	ug/Kg		9790	35000	35000	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-28-0	Thallium	0.0995	mg/kg	J	0.0827	0.276	0.276	2	MS	SKJ	04/14/10 01:42	100413-3	962569
7440-61-1	Uranium	2.2	mg/kg		0.0182	0.0551	0.0551	2	MS	SKJ	04/14/10 01:42	100413-3	962569
7440-62-2	Vanadium	15400	ug/Kg		140	700	700	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-66-6	Zinc J+,I6b	56700	ug/Kg		462	1400	1400	1	P	HSC	03/30/10 22:27	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.541	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.533	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.5	g	30	mL	03/16/10	TXB3

LMF  
5/5/10

**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520009

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8273

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 71

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4620000	ug/Kg		8810	25900	25900	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-36-0	Antimony	1300	ug/Kg	U	427	1300	1300	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-38-2	Arsenic	1.84	mg/kg		0.278	1.39	1.39	2	MS	SKJ	04/14/10 01:46	100413-3	962569
7440-39-3	Barium J+,I6b	101000	ug/Kg		130	648	648	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-41-7	Beryllium	0.743	mg/kg		0.0278	0.139	0.139	2	MS	SKJ	04/14/10 01:46	100413-3	962569
7440-43-9	Cadmium	648	ug/Kg	U	130	648	648	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-70-2	Calcium J+,I6b	3730000	ug/Kg		10400	32400	32400	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-47-3	Chromium	27800	ug/Kg		194	648	648	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-48-4	Cobalt	2700	ug/Kg		194	648	648	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-50-8	Copper	8470	ug/Kg		389	1300	1300	1	P	HSC	03/30/10 22:29	033010B-1	962575
7439-89-6	Iron	8650000	ug/Kg		10400	32400	32400	1	P	HSC	03/30/10 22:29	033010B-1	962575
7439-92-1	Lead J+,I6b	13900	ug/Kg		324	1300	1300	1	P	HSC	03/30/10 22:29	033010B-1	962575
7439-95-4	Magnesium J+,I6b	1050000	ug/Kg		11000	38900	38900	1	P	HSC	03/30/10 22:29	033010B-1	962575
7439-96-5	Manganese	576000	ug/Kg		259	1300	1300	1	P	HSC	03/30/10 22:29	033010B-1	962575
7439-97-6	Mercury	232	ug/kg		5.6	16.5	16.5	1	AV	JXL1	03/17/10 14:21	031710S1-4	964749
7440-02-0	Nickel	5.55	mg/kg		0.139	0.557	0.557	2	MS	SKJ	04/14/10 01:46	100413-3	962569
7440-09-7	Potassium J+,I6b	1120000	ug/Kg		8290	32400	32400	1	P	HSC	03/30/10 22:29	033010B-1	962575
7782-49-2	Selenium	1.39	mg/kg	U	0.696	1.39	1.39	2	MS	SKJ	04/14/10 01:46	100413-3	962569
7440-22-4	Silver	4320	ug/Kg		130	648	648	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-23-5	Sodium J-,I6a	69400	ug/Kg		9070	32400	32400	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-28-0	Thallium	0.126	mg/kg	J	0.0835	0.278	0.278	2	MS	SKJ	04/14/10 01:46	100413-3	962569
7440-61-1	Uranium	3.89	mg/kg		0.0184	0.0557	0.0557	2	MS	SKJ	04/14/10 01:46	100413-3	962569
7440-62-2	Vanadium	10600	ug/Kg		130	648	648	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-66-6	Zinc J+,I6b	45000	ug/Kg		427	1300	1300	1	P	HSC	03/30/10 22:29	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.506	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.544	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.513	g	30	mL	03/16/10	TXB3

LMF  
5/5/10

**METALS**  
-1-  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520010

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8275

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 60

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4050000	ug/Kg		10100	29800	29800	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-36-0	Antimony	1490	ug/Kg	U	491	1490	1490	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-38-2	Arsenic	1.59	mg/kg		0.311	1.56	1.56	2	MS	SKJ	04/14/10 01:50	100413-3	962569
7440-39-3	Barium J+,16b	75400	ug/Kg		149	745	745	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-41-7	Beryllium	0.710	mg/kg		0.0311	0.156	0.156	2	MS	SKJ	04/14/10 01:50	100413-3	962569
7440-43-9	Cadmium	745	ug/Kg	U	149	745	745	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-70-2	Calcium J+,16b	2820000	ug/Kg		11900	37200	37200	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-47-3	Chromium	9500	ug/Kg		223	745	745	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-48-4	Cobalt	2130	ug/Kg		223	745	745	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-50-8	Copper	4890	ug/Kg		447	1490	1490	1	P	HSC	03/30/10 22:31	033010B-1	962575
7439-89-6	Iron	8650000	ug/Kg		11900	37200	37200	1	P	HSC	03/30/10 22:31	033010B-1	962575
7439-92-1	Lead J+,16b	9850	ug/Kg		372	1490	1490	1	P	HSC	03/30/10 22:31	033010B-1	962575
7439-95-4	Magnesium J+,16b	932000	ug/Kg		12700	44700	44700	1	P	HSC	03/30/10 22:31	033010B-1	962575
7439-96-5	Manganese	487000	ug/Kg		298	1490	1490	1	P	HSC	03/30/10 22:31	033010B-1	962575
7439-97-6	Mercury	109	ug/kg		6.63	19.5	19.5	1	AV	JXL1	03/17/10 14:23	031710S1-4	964749
7440-02-0	Nickel	5.75	mg/kg		0.156	0.622	0.622	2	MS	SKJ	04/14/10 01:50	100413-3	962569
7440-09-7	Potassium J+,16b	979000	ug/Kg		9530	37200	37200	1	P	HSC	03/30/10 22:31	033010B-1	962575
7782-49-2	Selenium	1.56	mg/kg	U	0.778	1.56	1.56	2	MS	SKJ	04/14/10 01:50	100413-3	962569
7440-22-4	Silver U,14b	663	ug/Kg	J	149	745	745	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-23-5	Sodium U,14d	59100	ug/Kg		10400	37200	37200	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-28-0	Thallium	0.311	mg/kg	U	0.0933	0.311	0.311	2	MS	SKJ	04/14/10 01:50	100413-3	962569
7440-61-1	Uranium	2.26	mg/kg		0.0205	0.0622	0.0622	2	MS	SKJ	04/14/10 01:50	100413-3	962569
7440-62-2	Vanadium	9190	ug/Kg		149	745	745	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-66-6	Zinc J+,16b	41600	ug/Kg		491	1490	1490	1	P	HSC	03/30/10 22:31	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.537	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.561	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.514	g	30	mL	03/16/10	TXB3

LMF  
5/5/10

**METALS**  
-1-  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520011

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8276

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 85

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	7270000	ug/Kg		7720	22700	22700	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-36-0	Antimony	1140	ug/Kg	U	375	1140	1140	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-38-2	Arsenic	1.36	mg/kg		0.219	1.1	1.1	2	MS	SKJ	04/14/10 02:02	100413-3	962569
7440-39-3	Barium J+,I6b	82100	ug/Kg		114	568	568	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-41-7	Beryllium	0.705	mg/kg		0.0219	0.11	0.11	2	MS	SKJ	04/14/10 02:02	100413-3	962569
7440-43-9	Cadmium	568	ug/Kg	U	114	568	568	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-70-2	Calcium J+,I6b	2700000	ug/Kg		9080	28400	28400	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-47-3	Chromium	10700	ug/Kg		170	568	568	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-48-4	Cobalt	4310	ug/Kg		170	568	568	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-50-8	Copper	5580	ug/Kg		341	1140	1140	1	P	HSC	03/30/10 22:33	033010B-1	962575
7439-89-6	Iron	12000000	ug/Kg		9080	28400	28400	1	P	HSC	03/30/10 22:33	033010B-1	962575
7439-92-1	Lead J+,I6b	9400	ug/Kg		284	1140	1140	1	P	HSC	03/30/10 22:33	033010B-1	962575
7439-95-4	Magnesium J+,I6b	1660000	ug/Kg		9650	34100	34100	1	P	HSC	03/30/10 22:33	033010B-1	962575
7439-96-5	Manganese	365000	ug/Kg		227	1140	1140	1	P	HSC	03/30/10 22:33	033010B-1	962575
7439-97-6	Mercury U,I4b	33.6	ug/kg		4.55	13.4	13.4	1	AV	JXL1	03/17/10 14:25	031710S1-4	964749
7440-02-0	Nickel	5.51	mg/kg		0.11	0.439	0.439	2	MS	SKJ	04/14/10 02:02	100413-3	962569
7440-09-7	Potassium J+,I6b	1540000	ug/Kg		7260	28400	28400	1	P	HSC	03/30/10 22:33	033010B-1	962575
7782-49-2	Selenium	1.1	mg/kg	U	0.548	1.1	1.1	2	MS	SKJ	04/14/10 02:02	100413-3	962569
7440-22-4	Silver U,I4b	220	ug/Kg	J	114	568	568	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-23-5	Sodium U,I4d	68100	ug/Kg		7950	28400	28400	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-28-0	Thallium	0.104	mg/kg	J	0.0658	0.219	0.219	2	MS	SKJ	04/14/10 02:02	100413-3	962569
7440-61-1	Uranium	0.578	mg/kg		0.0145	0.0439	0.0439	2	MS	SKJ	04/14/10 02:02	100413-3	962569
7440-62-2	Vanadium	17800	ug/Kg		114	568	568	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-66-6	Zinc J+,I6b	39800	ug/Kg		375	1140	1140	1	P	HSC	03/30/10 22:33	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.534	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.516	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.525	g	30	mL	03/16/10	TXB3

LMF  
5/5/10

## DATA VALIDATION COVER SHEET

5120-1

## Data Validation Cover Sheet

Records Use only



## Section I.

REQUEST NUMBER: 10-2200 VALIDATION DATE: 5/5/10 LAB CODE: GELCONTRACT LABORATORY NAME: GEL Laboratories LLCVALIDATOR: Larry Fukui 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 | 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 type="checkbox"/>            | <input type="checkbox"/> | <input checked="" 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. It should be noted that the pH duplicates associated with samples RE36-10-8277, 8279, and 8288 were performed on parent samples from other LANL RNs. No sample data were qualified as a result.

Reviewed by: Mary Donovan Level: I Date: 05/05/10


VALIDATOR'S SIGNATURE: \_\_\_\_\_

DATE: 5/5/10


GENERAL CHEMISTRY ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5120-2</b>  <b>General Chemistry Analytical Data Validation Checklist</b>	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 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 type="checkbox"/>	<input checked="" 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	
<b>5120-2</b>  <b>General Chemistry Analytical Data Validation Checklist</b>	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"/>	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 checked="" type="checkbox"/>	<input 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	
<b>5120-2</b>  <b>General Chemistry Analytical Data Validation Checklist</b>	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"/>	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 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8288  
Sample ID: 248520001  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 16.4%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.5C	H	6.15	0.010	0.100	SU	1	TXT1	03/05/10	1730	961560	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	173	78.3	288	ug/kg	1	AXC2	03/11/10	1633	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		5.08	0.359	1.20	mg/kg	1	GXM	03/25/10	0955	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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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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 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8279  
Sample ID: 248520002  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 7.1%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.4C	H	6.29	0.010	0.100	SU	1	TXT1	03/05/10	1733	961560	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		838	70.4	259	ug/kg	1	AXC2	03/11/10	1636	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		54.1	0.323	1.08	mg/kg	1	GXM	03/25/10	1124	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8277  
Sample ID: 248520003  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 25.4%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.5C	H	6.80	0.010	0.100	SU	1	TXT1	03/05/10	1735	961560	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		364	78.6	289	ug/kg	1	AXC2	03/11/10	1643	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.23	0.402	1.34	mg/kg	1	GXM	03/25/10	1154	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8280  
Sample ID: 248520004  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 9.46%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.3C	H	6.12	0.010	0.100	SU	1	TXT1	03/05/10	1514	961563	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		1120	65.9	242	ug/kg	1	AXC2	03/11/10	1644	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		20.4	0.331	1.10	mg/kg	1	GXM	03/25/10	1224	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8278  
Sample ID: 248520005  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 6.35%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.6C	H	5.51	0.010	0.100	SU	1	TXT1	03/05/10	1517	961563	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		317	63.7	234	ug/kg	1	AXC2	03/11/10	1645	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.44	0.320	1.07	mg/kg	1	GXM	03/25/10	1254	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8274  
Sample ID: 248520006  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 10.2%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.3C	H	6.24	0.010	0.100	SU	1	TXT1	03/05/10	1528	961563	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	105	66.4	244	ug/kg	1	AXC2	03/11/10	1646	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.43	0.334	1.11	mg/kg	1	GXM	03/25/10	1324	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8291  
Sample ID: 248520007  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 28.9%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.2C	H	6.61	0.010	0.100	SU	1	TXT1	03/05/10	1531	961563	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		1060	85.4	314	ug/kg	1	AXC2	03/11/10	1647	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		3.60	0.422	1.41	mg/kg	1	GXM	03/25/10	1354	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8287  
Sample ID: 248520008  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 32.9%

Project: LANL01004  
Client ID: LANL010

Parameter	Quallfler	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.2C	H	6.37	0.010	0.100	SU	1	TXT1	03/05/10	1532	961563	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		498	90.5	333	ug/kg	1	AXC2	03/11/10	1648	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		3.36	0.447	1.49	mg/kg	1	GXM	03/25/10	1424	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8273  
Sample ID: 248520009  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 29%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.1C	H	6.67	0.010	0.100	SU	1	TXT1	03/05/10	1534	961563	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		436	92.1	339	ug/kg	1	AXC2	03/11/10	1648	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		4.43	0.423	1.41	mg/kg	1	GXM	03/25/10	1454	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8275  
Sample ID: 248520010  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 40.1%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.1C	H	6.57	0.010	0.100	SU	1	TXT1	03/05/10	1538	961563	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		472	109	402	ug/kg	1	AXC2	03/11/10	1649	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.501	1.67	mg/kg	1	GXM	03/25/10	1523	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8276  
Sample ID: 248520011  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 14.6%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.0C	H	6.72	0.010	0.100	SU	1	TXT1	03/05/10	1541	961563	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		527	73.8	271	ug/kg	1	AXC2	03/11/10	1650	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.73	0.351	1.17	mg/kg	1	GXM	03/25/10	1652	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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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Thursday, March 04, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2200C

LOS ALAMOS

REQUEST NUMBER: 10-2200

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 4/1/2010

General Engineering Laboratories, Inc., Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

248520

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-8288	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8288	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8279	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8279	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8277	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8277	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8280	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8280	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8278	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8278	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8274	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8274	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8291	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8291	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8287	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8287	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8273	1	POLY	METALS+U-GEL	Ice	R

Thursday, March 04, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2200C

LOS ALAMOS

REQUEST NUMBER: 10-2200

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 4/1/2010

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
RE36-10-8273	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8275	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8275	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8276	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8276	1	POLY	Perchlorate+CN+N03+ pH	Ice	R

Relinquished By:

Date

Time

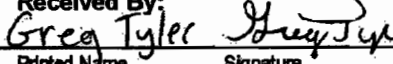
  
Printed Name      Signature

3/4/10      3:00

Received By:

Date

Time

  
Printed Name      Signature

3/3/10      0850

Printed Name      Signature

Printed Name      Signature

Printed Name      Signature

Printed Name      Signature

Received for DISPOSAL By:      Date      Time

Remarks:

Printed Name      Signature

Tuesday, March 02, 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: 3/2/2010

TURNAROUND/REPORT DUE: 4/1/2010

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: 10-2200  
Per Agreement Number: 126310011  
Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA-300.0	1	RE36-10-8273	R	2/25/2010	
		1	RE36-10-8274	R	2/25/2010	
		1	RE36-10-8275	R	2/25/2010	
		1	RE36-10-8276	R	2/25/2010	
		1	RE36-10-8277	R	2/25/2010	
		1	RE36-10-8278	R	2/25/2010	
		1	RE36-10-8279	R	2/25/2010	
		1	RE36-10-8280	R	2/25/2010	
		1	RE36-10-8287	R	2/25/2010	



Tuesday, March 02, 2010

REQUEST NUMBER: 10-2200

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA:300.0	1	RE36-10-8288	R	2/25/2010	
		1	RE36-10-8291	R	2/25/2010	
	SW-846:6010B	1	RE36-10-8273	R	2/25/2010	
		1	RE36-10-8274	R	2/25/2010	
		1	RE36-10-8275	R	2/25/2010	
		1	RE36-10-8276	R	2/25/2010	
		1	RE36-10-8277	R	2/25/2010	
		1	RE36-10-8278	R	2/25/2010	
		1	RE36-10-8279	R	2/25/2010	
		1	RE36-10-8280	R	2/25/2010	
		1	RE36-10-8287	R	2/25/2010	
		1	RE36-10-8288	R	2/25/2010	
	SW-846:6020	1	RE36-10-8291	R	2/25/2010	
		1	RE36-10-8273	R	2/25/2010	
		1	RE36-10-8274	R	2/25/2010	
		1	RE36-10-8275	R	2/25/2010	
		1	RE36-10-8276	R	2/25/2010	
		1	RE36-10-8277	R	2/25/2010	
		1	RE36-10-8278	R	2/25/2010	
		1	RE36-10-8279	R	2/25/2010	
		1	RE36-10-8280	R	2/25/2010	
		1	RE36-10-8287	R	2/25/2010	
		1	RE36-10-8288	R	2/25/2010	
		1	RE36-10-8291	R	2/25/2010	
	SW-846:6850	1	RE36-10-8273	R	2/25/2010	
		1	RE36-10-8274	R	2/25/2010	
		1	RE36-10-8275	R	2/25/2010	
		1	RE36-10-8276	R	2/25/2010	

Tuesday, March 02, 2010

REQUEST NUMBER: 10-2200

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6850	1	RE36-10-8277	R	2/25/2010	
		1	RE36-10-8278	R	2/25/2010	
		1	RE36-10-8279	R	2/25/2010	
		1	RE36-10-8280	R	2/25/2010	
		1	RE36-10-8287	R	2/25/2010	
		1	RE36-10-8288	R	2/25/2010	
		1	RE36-10-8291	R	2/25/2010	
	SW-846:7471A	1	RE36-10-8273	R	2/25/2010	
		1	RE36-10-8274	R	2/25/2010	
		1	RE36-10-8275	R	2/25/2010	
		1	RE36-10-8276	R	2/25/2010	
		1	RE36-10-8277	R	2/25/2010	
		1	RE36-10-8278	R	2/25/2010	
		1	RE36-10-8279	R	2/25/2010	
		1	RE36-10-8280	R	2/25/2010	
		1	RE36-10-8287	R	2/25/2010	
		1	RE36-10-8288	R	2/25/2010	
		1	RE36-10-8291	R	2/25/2010	
	SW-846:9012A	1	RE36-10-8273	R	2/25/2010	
		1	RE36-10-8274	R	2/25/2010	
		1	RE36-10-8275	R	2/25/2010	
		1	RE36-10-8276	R	2/25/2010	
		1	RE36-10-8277	R	2/25/2010	
		1	RE36-10-8278	R	2/25/2010	
		1	RE36-10-8279	R	2/25/2010	
		1	RE36-10-8280	R	2/25/2010	
		1	RE36-10-8287	R	2/25/2010	
		1	RE36-10-8288	R	2/25/2010	

Tuesday, March 02, 2010

REQUEST NUMBER: 10-2200

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:9012A	1	RE36-10-8291	R	2/25/2010	
	SW-846:9045C	1	RE36-10-8273	R	2/25/2010	
		1	RE36-10-8274	R	2/25/2010	
		1	RE36-10-8275	R	2/25/2010	
		1	RE36-10-8276	R	2/25/2010	
		1	RE36-10-8277	R	2/25/2010	
		1	RE36-10-8278	R	2/25/2010	
		1	RE36-10-8279	R	2/25/2010	
		1	RE36-10-8280	R	2/25/2010	
		1	RE36-10-8287	R	2/25/2010	
		1	RE36-10-8288	R	2/25/2010	
		1	RE36-10-8291	R	2/25/2010	

Final Page of REQUEST NUMBER 10-2200



March 09, 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: 248520  
SDG: 10-2200

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on March 03, 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: 10-2200  
Enclosures

**Los Alamos National Laboratory (72733-001-09)**  
**LANL ER Project**  
**Work Order #: 248520**  
**SDG: 10-2200**

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# Case Narrative

**Case Narrative for  
Los Alamos National Laboratory (72733-001-09)  
LANL ER Project  
Workorder #: 248520  
SDG # : 10-2200**

**March 09, 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 March 03, 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:

<b><u>Laboratory ID</u></b>	<b><u>Client ID</u></b>
248520001	RE36-10-8288
248520002	RE36-10-8279
248520003	RE36-10-8277
248520004	RE36-10-8280
248520005	RE36-10-8278
248520006	RE36-10-8274
248520007	RE36-10-8291
248520008	RE36-10-8287
248520009	RE36-10-8273
248520010	RE36-10-8275
248520011	RE36-10-8276

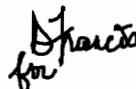
**Case Narrative**

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.

A handwritten signature in black ink, appearing to read "Valerie Davis" with a stylized flourish.

Valerie Davis

Project Manager

**List of current GEL Certifications as of 09 March 2010**

<b>State</b>	<b>Certification</b>
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**

Thursday, March 04, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2200C

LOS ALAMOS

REQUEST NUMBER: 10-2200

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 4/1/2010

General Engineering Laboratories, Inc., Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

248520

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-8288	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8288	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8279	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8279	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8277	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8277	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8280	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8280	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8278	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8278	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8274	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8274	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8291	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8291	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8287	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8287	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8273	1	POLY	METALS+U-GEL	Ice	R

Thursday, March 04, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2200C

LOS ALAMOS

REQUEST NUMBER: 10-2200

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 4/1/2010

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
RE36-10-8273	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8275	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8275	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-8276	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8276	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

Tuesday, March 02, 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: 3/2/2010**

**TURNAROUND/REPORT DUE: 4/1/2010**

**TURNAROUND REQ'D: 30 Days**

**RAD SCREENING: Yes, Below Background**

**LAB REQUEST COMMENTS:**

LANL ER SMO CONTACT:

Signature:



REQUEST NUMBER: 10-2200

These Samples are on:

LANL Request Number: 10-2200

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA:300.0	1	RE36-10-8273	R	2/25/2010	
		1	RE36-10-8274	R	2/25/2010	
		1	RE36-10-8275	R	2/25/2010	
		1	RE36-10-8276	R	2/25/2010	
		1	RE36-10-8277	R	2/25/2010	
		1	RE36-10-8278	R	2/25/2010	
		1	RE36-10-8279	R	2/25/2010	
		1	RE36-10-8280	R	2/25/2010	
		1	RE36-10-8287	R	2/25/2010	

Tuesday, March 02, 2010

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REQUEST NUMBER: 10-2200

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA:300.0	1	RE36-10-8288	R	2/25/2010	
		1	RE36-10-8291	R	2/25/2010	
	SW-846:6010B	1	RE36-10-8273	R	2/25/2010	
		1	RE36-10-8274	R	2/25/2010	
		1	RE36-10-8275	R	2/25/2010	
		1	RE36-10-8276	R	2/25/2010	
		1	RE36-10-8277	R	2/25/2010	
		1	RE36-10-8278	R	2/25/2010	
		1	RE36-10-8279	R	2/25/2010	
		1	RE36-10-8280	R	2/25/2010	
		1	RE36-10-8287	R	2/25/2010	
		1	RE36-10-8288	R	2/25/2010	
		1	RE36-10-8291	R	2/25/2010	
	SW-846:6020	1	RE36-10-8273	R	2/25/2010	
		1	RE36-10-8274	R	2/25/2010	
		1	RE36-10-8275	R	2/25/2010	
		1	RE36-10-8276	R	2/25/2010	
		1	RE36-10-8277	R	2/25/2010	
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		1	RE36-10-8280	R	2/25/2010	
		1	RE36-10-8287	R	2/25/2010	
		1	RE36-10-8288	R	2/25/2010	
		1	RE36-10-8291	R	2/25/2010	
	SW-846:6850	1	RE36-10-8273	R	2/25/2010	
		1	RE36-10-8274	R	2/25/2010	
		1	RE36-10-8275	R	2/25/2010	
		1	RE36-10-8276	R	2/25/2010	

Tuesday, March 02, 2010

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REQUEST NUMBER: 10-2200

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6850	1	RE36-10-8277	R	2/25/2010	
		1	RE36-10-8278	R	2/25/2010	
		1	RE36-10-8279	R	2/25/2010	
		1	RE36-10-8280	R	2/25/2010	
		1	RE36-10-8287	R	2/25/2010	
		1	RE36-10-8288	R	2/25/2010	
		1	RE36-10-8291	R	2/25/2010	
	SW-846:7471A	1	RE36-10-8273	R	2/25/2010	
		1	RE36-10-8274	R	2/25/2010	
		1	RE36-10-8275	R	2/25/2010	
		1	RE36-10-8276	R	2/25/2010	
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		1	RE36-10-8279	R	2/25/2010	
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		1	RE36-10-8278	R	2/25/2010	
		1	RE36-10-8279	R	2/25/2010	
		1	RE36-10-8280	R	2/25/2010	
		1	RE36-10-8287	R	2/25/2010	
		1	RE36-10-8288	R	2/25/2010	



Tuesday, March 02, 2010

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REQUEST NUMBER: 10-2200

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:9012A	1	RE36-10-8291	R	2/25/2010	
	SW-846:9045C	1	RE36-10-8273	R	2/25/2010	
		1	RE36-10-8274	R	2/25/2010	
		1	RE36-10-8275	R	2/25/2010	
		1	RE36-10-8276	R	2/25/2010	
		1	RE36-10-8277	R	2/25/2010	
		1	RE36-10-8278	R	2/25/2010	
		1	RE36-10-8279	R	2/25/2010	
		1	RE36-10-8280	R	2/25/2010	
		1	RE36-10-8287	R	2/25/2010	
		1	RE36-10-8288	R	2/25/2010	
		1	RE36-10-8291	R	2/25/2010	

Final Page of REQUEST NUMBER 10-2200



## SAMPLE RECEIPT &amp; REVIEW FORM

Client: LANL			SDG/ARCOC/Work Order: 10-2200		
Received By: Greg Tyler			Date Received: 3/3/10		
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*: 60cpm		
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 1-5    14,15,17
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: <b>No time on Chain of Custody.</b>
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:

## Fed Ex Tracking Numbers:

7209 7850 3083 1C    7209 7850 3061 2C    7209 7850 3028 17C  
 7209 7850 3040 1C    7209 7850 3072 3C  
 7209 7850 3094 1C    7209 7850 3120 4C  
 7209 7850 3109 2C    7209 7850 3110 5C  
 7209 7850 3039 2C    7209 7850 3153 5C  
 7209 7850 3050 2C    7209 7850 3006 14C  
 7209 7850 3142 2C    7209 7850 2992 14C  
 7209 7850 3131 2C    7209 7850 3071 15C

PM (or PMA) review: Initials

Date

3/4/10

ORIGIN ID: SAFA (505) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 02MAR10  
ACTWGT: 49.0 LB MAN  
CAD: 0014176/CAFE2450  
BILL SENDER

ORIGIN ID: SAFA (505) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

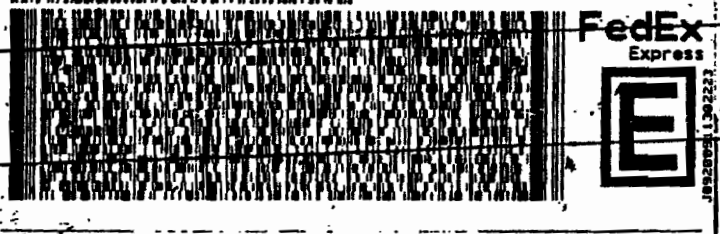
SHIP DATE: 02MAR10  
ACTWGT: 47.3 LB MAN  
CAD: 0014176/CAFE2450  
BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

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2 of 2  
WED - 03MAR A1  
PRIORITY OVERNIGHT  
IPSH 7209 7850 3083  
1strn 7209 7850 3072 0201

1 of 3  
WED - 03MAR A1  
PRIORITY OVERNIGHT  
TRKH 7209 7850 3040  
NR MASTER NR

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TA00 BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
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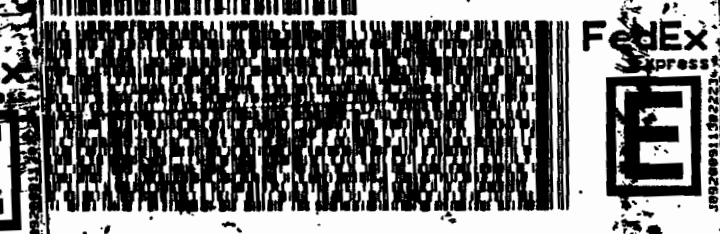
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1 of 3  
WED - 03MAR A1  
PRIORITY OVERNIGHT  
RKH 7209 7850 3094  
NR MASTER NR

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WED - 03MAR A1  
PRIORITY OVERNIGHT  
RKH 7209 7850 3109  
NR 7209 7850 3084 0201

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TAGO BLDG 1237 DPU 03

LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 02MAR10  
ACTWGT: 52.0 LB MAN  
CAD: 0014176/CAFE2450

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LOS ALAMOS NATL LAB  
TAGO BLDG 1237 DPU 03

LOS ALAMOS, NM 87545  
UNITED STATES US

ACTWGT: 49.0 LB MAN  
CAD: 0014176/CAFE2450

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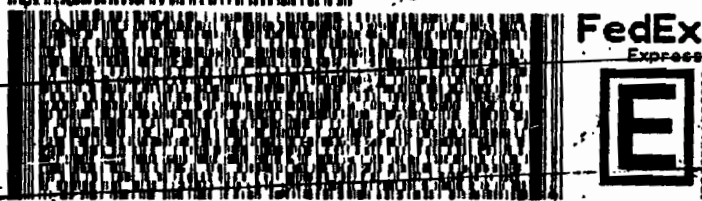
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WED - 03MAR A1  
PRIORITY OVERNIGHT



3 of 3  
MPSH 7209 7850 3039  
MatrN 7209 7850 3017 0201

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PRIORITY OVERNIGHT

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MPSH 7209 7850 3050  
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WED - 03MAR A1  
PRIORITY OVERNIGHT

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TAGO BLDG 1237 DPU 03

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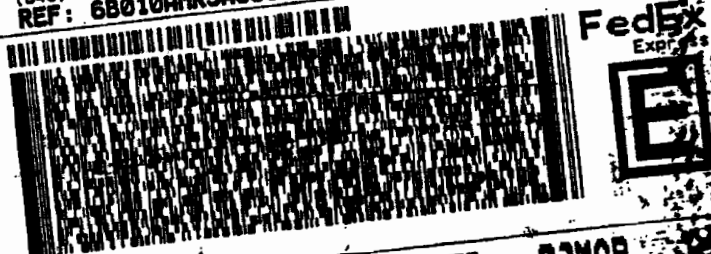
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WED - 03MAR A1  
PRIORITY OVERNIGHT

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CHS



ORIGIN ID: SAFA (505) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 02MAR10  
ACTWGT: 49.0 LB MAN  
CAD: 0014176/CAFE2450

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ORIGIN ID: SAFA (505) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03

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UNITED STATES US

SHIP DATE: 02MAR10  
ACTWGT: 49.0 LB MAN  
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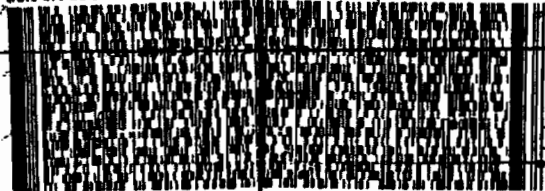
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TRK# 7209 7850 3072

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PRIORITY OVERNIGHT



ORIGIN ID: SAFA (505) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 02MAR10  
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ORIGIN ID: SAFA (505) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03

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UNITED STATES US

SHIP DATE: 02MAR10  
ACTWGT: 49.0 LB MAN  
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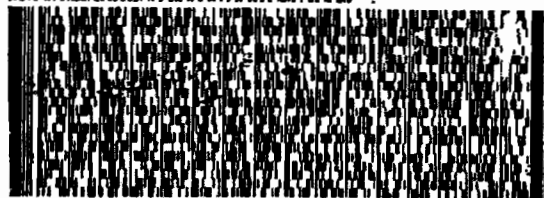
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REF: 6B010AMR3A05529E00



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MM MASTER MM

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PRIORITY OVERNIGHT



ORIGIN ID: SAFA (505) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03

SHIP DATE: 02MAR10  
ACTWGT: 46.0 LB MAN  
CAD: 0014176/CAFE2450

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SHIP DATE: 02MAR10  
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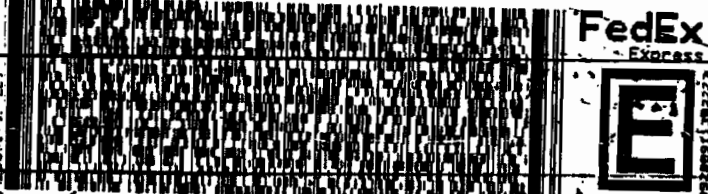
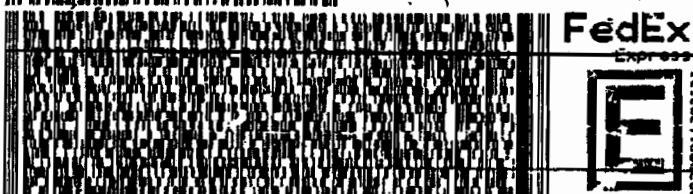
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REF: 6B010AMR3A0532VA00

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PRIORITY OVERNIGHT

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ORIGIN ID:  
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TA00 BLDG 1237 DPU 03

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ACTWGT: 46.0 LB MAN  
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UNITED STATES US

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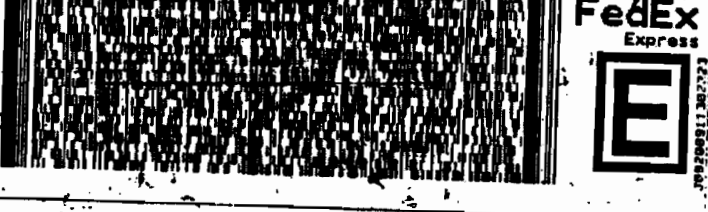
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TRKH 7209 7850 2992  
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Matrx 7209 7850 2981 0201

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TRKH 7209 7850 3017  
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ORIGIN ID: SAFA (605) 665-9968  
JOYLENE VALDEZ  
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7A00 BLDG 1237 DPU 03

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UNITED STATES US

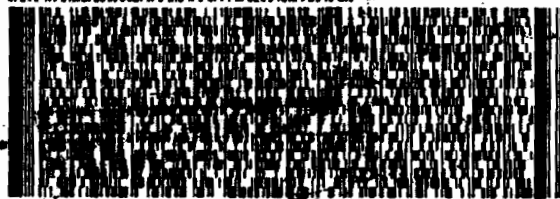
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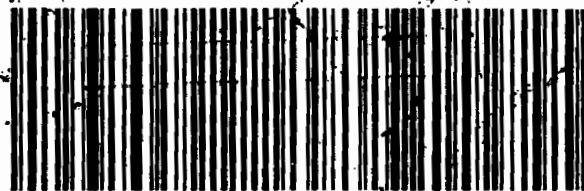


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Matrx 7209 7850 3017 0201

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# **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 10-2200**

**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:** 963902

**Prep Batch Number:** 963901

**Sample Analysis**

<b>Sample ID</b>	<b>Client ID</b>
248520001	RE36-10-8288
248520002	RE36-10-8279
248520003	RE36-10-8277
248520004	RE36-10-8280
248520005	RE36-10-8278
248520006	RE36-10-8274
248520007	RE36-10-8291
248520008	RE36-10-8287
248520009	RE36-10-8273
248520010	RE36-10-8275
248520011	RE36-10-8276
1202067819	Interference Check Sample (ICS)
1202067815	Method Blank (MB)
1202067816	Laboratory Control Sample (LCS)
1202067817	248520001(RE36-10-8288) Matrix Spike (MS)
1202067818	248520001(RE36-10-8288) 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.

10-2200-PERLCMS

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### **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.

#### **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 248520001 (RE36-10-8288) was chosen for matrix spike and matrix spike duplicate analysis.

#### **Matrix Spike (MS) Recovery Statement**

The MS recovered Perchlorate at 71%. The acceptance range is 75-125%. The low recovery may be the result of the background concentration present in the parent sample, 248520001 (RE36-10-8288) and/or non-homogeneity of the sample matrix. Please see data exception report 807755.

#### **Matrix Spike Duplicate (MSD) Recovery Statement**

The MSD recoveries were within the established acceptance limits.

#### **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.

10-2200-PERLCMS

### **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.

#### **Sample Dilutions**

Samples 248520002 (RE36-10-8279) and 248520004 (RE36-10-8280) were diluted to bring the over range concentrations within the calibration range. The diluted analyses are reported.

#### **Sample Re-extraction/Re-analysis**

Sample 248520005 (RE36-10-8278) was re-analyzed to confirm the potential of carryover from the previous sample. The re-analysis is reported.

### **Miscellaneous Information**

#### **Data Exception (DER) Documentation**

Data exception report 807755 was generated for this SDG.

The MS recovered Perchlorate at 71%. The acceptance range is 75-125%. The low recovery may be the result of the background concentration present in the parent sample, 248520001 (RE36-10-8288) and/or non-homogeneity of the sample matrix.

#### **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 concentrations for Perchlorate and Perchlorate-101 in the matrix spikes were just outside the calibration range. This was due to the background concentration present in the parent sample, 248520001 (RE36-10-8288). The concentration in the parent sample was within the calibration range. There was no need to analyze the matrix spikes at a dilution.

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.

10-2200-PERLCMS

### **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: Herbert M. Mauer Date: 03/26/10

# 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: 963901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8288

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520001

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 84

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.598	2.39	11.1	ug/kg		1	21-MAR-10 05:20	per0320106a
	Perchlorate Isotope Ratio			3.09			1	21-MAR-10 05:20	per0320106a
14797-73-0	Perchlorate-101	.598	2.39	10.9	ug/kg		1	21-MAR-10 05:20	per0320106a
	Perchlorate-O(18)			5.74	ug/kg		1	21-MAR-10 05:20	per0320106a

<sup>^</sup> 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 %Solids  
Aliquot



Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC  
 Lab Code: GEL  
 Instrument: LCMSMS  
 Method: SW846 6850 Modified  
 Matrix: SOIL  
 Extraction Batch ID: 263901  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0

Client Sample No. RE36-10-8279  
 Date Received: 03-MAR-10  
 GEL Job No (SDG): 10-2200  
 GEL Sample ID: 248520002  
 Date Filtered: 12-MAR-10  
 Injection Volume (uL): 20  
 %Solids: 22.9

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	2.69	10.8	27.0	ug/kg		5	21-MAR-10 15:47	per0321012a
	Perchlorate Isotope Ratio			3.04			5	21-MAR-10 15:47	per0321012a
14797-73-0	Perchlorate-101	2.69	10.8	26.0	ug/kg		5	21-MAR-10 15:47	per0321012a
	Perchlorate-O(18)			24.4	ug/kg		5	21-MAR-10 15:47	per0321012a

<sup>^</sup> 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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC  
 Lab Code: GEL  
 Instrument: LCMSMS  
 Method: SW846 6850 Modified  
 Matrix: SOIL  
 Extraction Batch ID: 963901  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE36-10-8277  
 Date Received: 03-MAR-10  
 GEL Job No (SDG): 10-2200  
 GEL Sample ID: 248520003  
 Date Filtered: 12-MAR-10  
 Injection Volume (uL): 20  
 %Solids: 75

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.67	2.68	0.670	ug/kg	U	1	21-MAR-10 06:06	per0320113a
	Perchlorate Isotope Ratio						1	21-MAR-10 06:06	per0320113a
14797-73-0	Perchlorate-101	.67	2.68	0.670	ug/kg	U	1	21-MAR-10 06:06	per0320113a
	Perchlorate-O(18)			6.09	ug/kg		1	21-MAR-10 06:06	per0320113a

<sup>^</sup> 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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC  
 Lab Code: GEL  
 Instrument: LCMSMS  
 Method: SW846 6850 Modified  
 Matrix: SOIL  
 Extraction Batch ID: 963901  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0

Client Sample No. RE36-10-8280  
 Date Received: 03-MAR-10  
 GEL Job No (SDG): 10-2200  
 GEL Sample ID: 248520004  
 Date Filtered: 12-MAR-10  
 Injection Volume (uL): 20  
 %Solids: 90.5

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	2.21	8.84	21.6	ug/kg		4	21-MAR-10 15:56	per0321013a
	Perchlorate Isotope Ratio			2.95			4	21-MAR-10 15:56	per0321013a
14797-73-0	Perchlorate-101	2.21	8.84	21.5	ug/kg		4	21-MAR-10 15:56	per0321013a
	Perchlorate-O(18)			22.4	ug/kg		4	21-MAR-10 15:56	per0321013a

<sup>^</sup> 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 %Solids  
 Aliquot

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC  
 Lab Code: GEL  
 Instrument: LCMSMS  
 Method: SW846 6850 Modified  
 Matrix: SOIL  
 Extraction Batch ID: 963901  
 Extraction Type: Solid Prep  
 Client Sample No. RE36-10-8278  
 Date Received: 03-MAR-10  
 GEL Job No (SDG): 10-2200  
 GEL Sample ID: 248520005  
 Date Filtered: 12-MAR-10  
 Injection Volume (uL): 20  
 Sample Volume/Weight: 2.00 g  
 %Solids: 93.6  
 Concentrated Extract Volume: 20.0

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.534	2.14	0.534	ug/kg	U	1	21-MAR-10 16:06	per0321014a
	Perchlorate Isotope Ratio						1	21-MAR-10 16:06	per0321014a
14797-73-0	Perchlorate-101	.534	2.14	0.534	ug/kg	U	1	21-MAR-10 16:06	per0321014a
	Perchlorate-O(18)			5.28	ug/kg		1	21-MAR-10 16:06	per0321014a

<sup>^</sup> 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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 68.50 Modified

Matrix: SOIL

Extraction Batch ID: 963901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8274

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520006

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 90

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.557	2.23	0.926	ug/kg	J	1	21-MAR-10 06:26	per0320116a
	Perchlorate Isotope Ratio			3.03			1	21-MAR-10 06:26	per0320116a
14797-73-0	Perchlorate-101	.557	2.23	0.924	ug/kg	J	1	21-MAR-10 06:26	per0320116a
	Perchlorate-O(18)			5.14	ug/kg		1	21-MAR-10 06:26	per0320116a

<sup>^</sup> 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 LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 963901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8291

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520007

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 71

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.704	2.81	1.16	ug/kg	J	1	21-MAR-10 06:32	per0320117a
	Perchlorate Isotope Ratio			2.81			1	21-MAR-10 06:32	per0320117a
14797-73-0	Perchlorate-101	.704	2.81	1.25	ug/kg	J	1	21-MAR-10 06:32	per0320117a
	Perchlorate-O(18)			6.69	ug/kg		1	21-MAR-10 06:32	per0320117a

<sup>^</sup> 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 %Solids  
Aliquot

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 963901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8287

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520008

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 67

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.746	2.98	7.15	ug/kg		1	21-MAR-10 06:39	per0320118a
	Perchlorate Isotope Ratio			2.99			1	21-MAR-10 06:39	per0320118a
14797-73-0	Perchlorate-101	.746	2.98	7.26	ug/kg		1	21-MAR-10 06:39	per0320118a
	Perchlorate-O(18)			6.99	ug/kg		1	21-MAR-10 06:39	per0320118a

<sup>^</sup> 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 LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 963901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8273

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520009

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 71

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.705	2.82	0.991	ug/kg	J	1	21-MAR-10 06:45	per0320119a
	Perchlorate Isotope Ratio			3.4			1	21-MAR-10 06:45	per0320119a
14797-73-0	Perchlorate-101	.705	2.82	0.882	ug/kg	J	1	21-MAR-10 06:45	per0320119a
	Perchlorate-O(18)			6.53	ug/kg		1	21-MAR-10 06:45	per0320119a

<sup>^</sup> 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 LLC  
**Lab Code:** GEL  
**Instrument:** LCMSMS  
**Method:** SW846 6850 Modified  
**Matrix:** SOIL  
**Extraction Batch ID:** 963901  
**Extraction Type:** Solid Prep  
**Sample Volume/Weight:** 2.00 g  
**Concentrated Extract Volume:** 20.0

**Client Sample No.**  
RE36-10-8275

**Date Received:** 03-MAR-10  
**GEL Job No (SDG):** 10-2200  
**GEL Sample ID:** 248520010  
**Date Filtered:** 12-MAR-10  
**Injection Volume (uL):** 20  
**%Solids:** 60

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.835	3.34	0.835	ug/kg	U	1	21-MAR-10 06:52	per0320120a
	Perchlorate Isotope Ratio						1	21-MAR-10 06:52	per0320120a
14797-73-0	Perchlorate-101	.835	3.34	0.835	ug/kg	U	1	21-MAR-10 06:52	per0320120a
	Perchlorate-O(18)			7.73	ug/kg		1	21-MAR-10 06:52	per0320120a

<sup>^</sup> 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 LLC  
 Lab Code: GEL  
 Instrument: LCMSMS  
 Method: SW846 6850 Modified  
 Matrix: SOIL  
 Extraction Batch ID: 963901  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE36-10-8276  
 Date Received: 03-MAR-10  
 GEL Job No (SDG): 10-2200  
 GEL Sample ID: 248520011  
 Date Filtered: 12-MAR-10  
 Injection Volume (uL): 20  
 %Solids: 85

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.586	2.34	0.642	ug/kg	J	1	21-MAR-10 06:58	per0320121a
	Perchlorate Isotope Ratio			2.92			1	21-MAR-10 06:58	per0320121a
14797-73-0	Perchlorate-101	.586	2.34	0.667	ug/kg	J	1	21-MAR-10 06:58	per0320121a
	Perchlorate-O(18)			5.37	ug/kg		1	21-MAR-10 06:58	per0320121a

<sup>^</sup> 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 %Solids  
 Aliquot

# QUALITY CONTROL SUMMARY

Perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-2200

Extract Batch Code: 963901

Date Filtered: 12-MAR-10

Matrix: SOIL

Sample ID: 1202067816

Analyte^	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	1.99	ug/kg	99.3		70 - 130
Perchlorate Isotope Ratio		3.07				-
Perchlorate-101	2.00	1.96	ug/kg	98.0		70 - 130
Perchlorate-O(18)		4.7	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): 10-2200

Extract Batch Code: 963901

Date Filtered: 12-MAR-10

Matrix: SOIL

Sample ID: 1202067819

Analyte^	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.07	ug/kg	103		70 - 130
Perchlorate Isotope Ratio		2.96				
Perchlorate-101	2.00	2.12	ug/kg	106		70 - 130
Perchlorate-O(18)		4.88	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

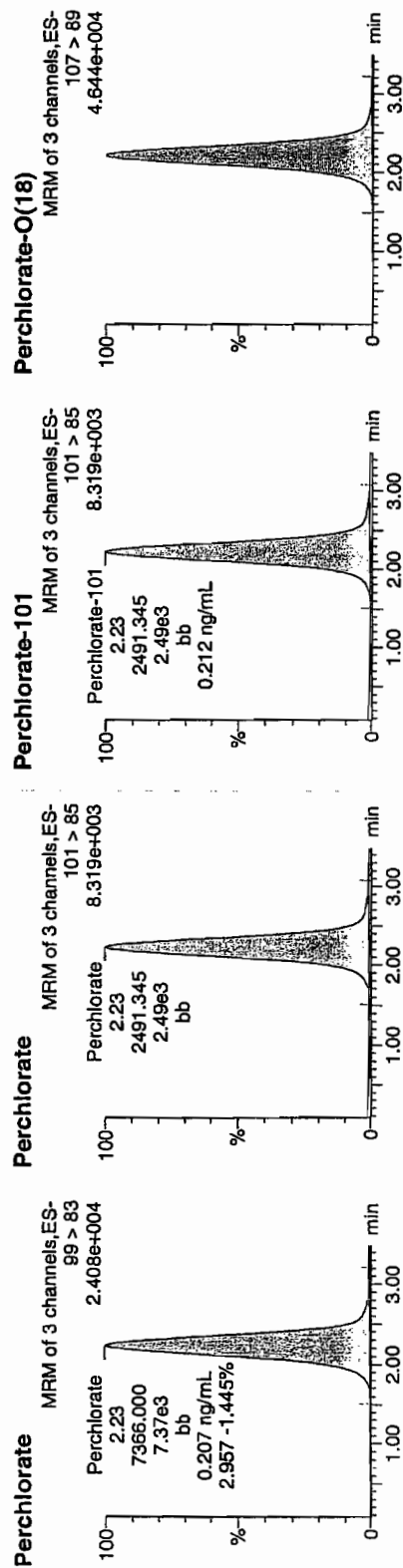
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Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320093a  
Date: 21-Mar-2010  
Time: 03:54:19  
ID: 1202067819  
Vial: 2:5,B

03-21-10

1202067819 | 2010 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod	Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202067819	Perchlorate	99 > 83	2.23	7366.000	7366.000	bb			0.2068	103.38	3.38	1166.1...	2.96
1202067819	Perchlorate-101	101 > 85	2.23	2491.345	2491.345	bb			0.2117	105.87	5.87	629.106	
1202067819	Perchlorate-O(18)	107 > 89	2.22	14281.886	14281.886	bb			0.4884	97.68	-2.32	846.613	

$$\frac{7366.000}{2491.345} = 2.9566$$

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

Extract Batch Code: 963901

GEL MS/PS ID: 1202067817

GEL MSD/PSD ID: 1202067818

GEL Job No (SDG): 10-2200

Date Extracted: 12-MAR-10

Client ID: RE36-10-8288

QC Type: MS

Compound <sup>^</sup>	Spike Added	Sample Conc	Units	MS Conc	MS Rec	#	MSD Conc	MSD Rec	#	RPD	#	RPD Limit	Recovery Limit
Perchlorate	2.39	11.1	ug/kg	12.8	70.6	*	13.3	91.7		3.86		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		3.05			2.99			0			-
Perchlorate-101	2.39	10.9	ug/kg	12.7	76.6		13.5	109		5.99		30	75 - 125
Perchlorate-O(18)	0	5.74	ug/kg	5.60			5.75			2.67			-

<sup>^</sup> 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

GEL Job No.(SDG): 10-2200

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	20-MAR-10	per0320001a	IPB001
Perchlorate-101	0.00	0	NA	20-MAR-10	per0320001a	IPB001
Perchlorate	0.00	0	NA	20-MAR-10	per0320002a	IPB001
Perchlorate-101	0.00	0	NA	20-MAR-10	per0320002a	IPB001
Perchlorate	0.00	0	NA	21-MAR-10	per0321001a	IPB001
Perchlorate-101	0.00	0	NA	21-MAR-10	per0321001a	IPB001
Perchlorate	0.00	0	NA	21-MAR-10	per0321002a	IPB001
Perchlorate-101	0.00	0	NA	21-MAR-10	per0321002a	IPB001



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

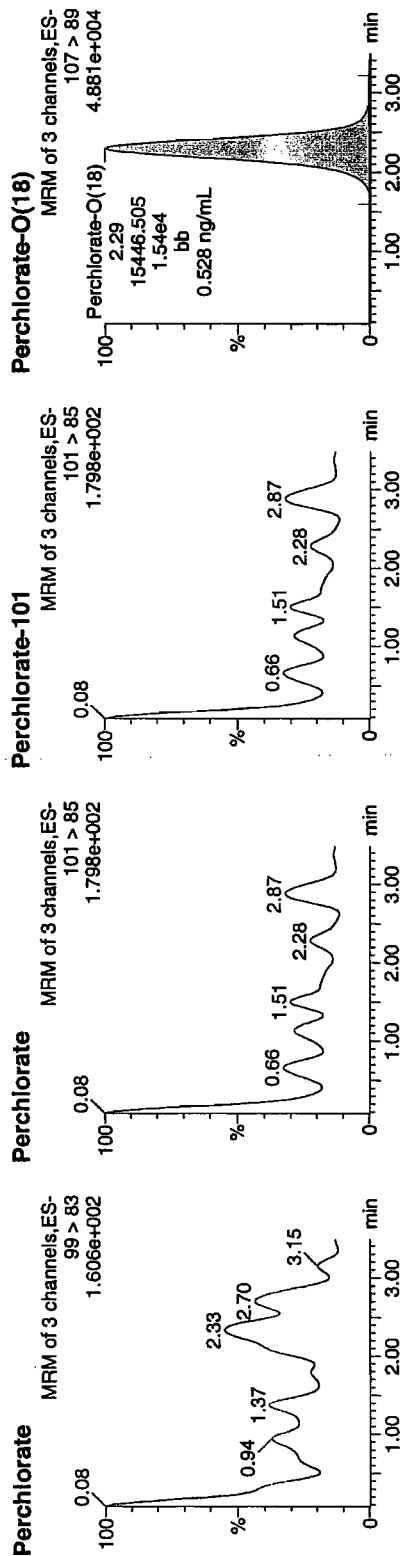
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Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per032010a.mdb 21 Mar 2010 08:28:58  
Calibration: C:\MassLynx\Perchlorate.PRO\CurvedB\per032010a.cdb 21 Mar 2010 08:29:17

Name: per0320001a  
Date: 20-Mar-2010  
Time: 17:47:44  
ID: IPB001  
Vial: 1:1,A

032110



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ratio
IPB001	Perchlorate	99 > 83											0.00
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	2.29	15446.505	15446.505	bb			0.5283	105.65	✓ 5.65	8842.8...	

107  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

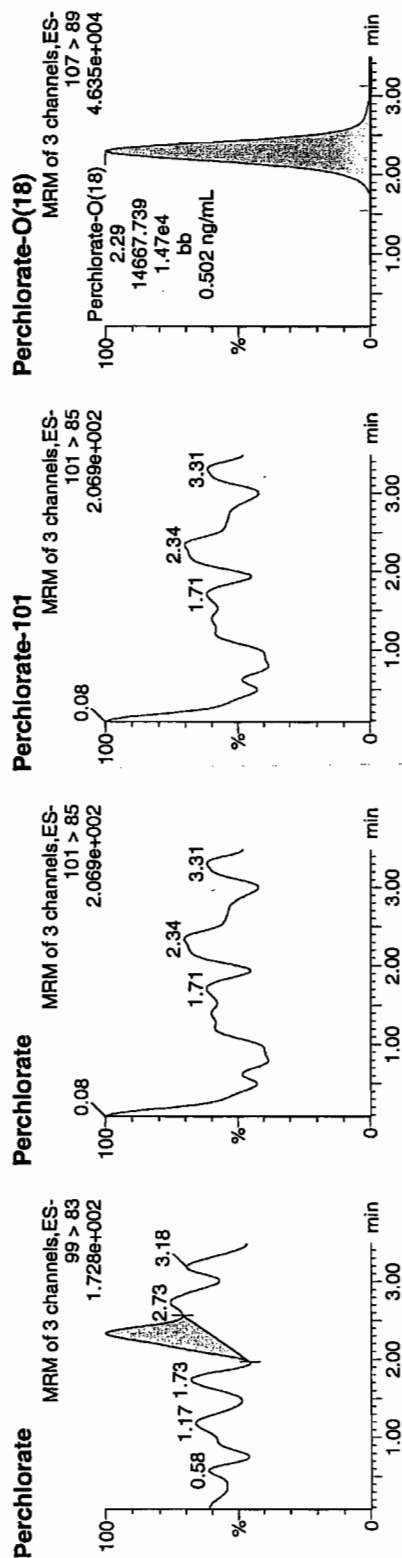
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320002a  
Date: 20-Mar-2010  
Time: 17:54:35  
ID: IPB001  
Vial: 1:1,A

03-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83	2.33	19.703	19.703	bb			0.0006			8.168	0.00
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	2.29	14667.739	14667.739	bb			0.5016	100.32	0.32	6305.6...	

per0320002a  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

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

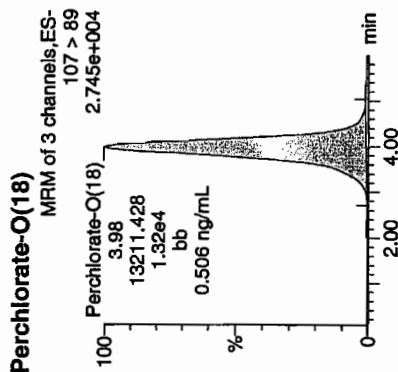
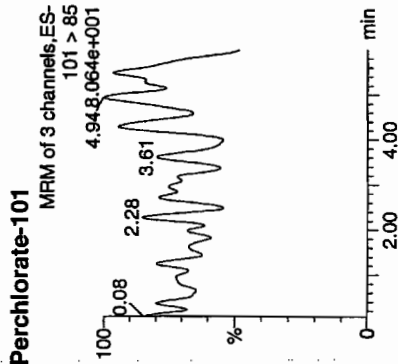
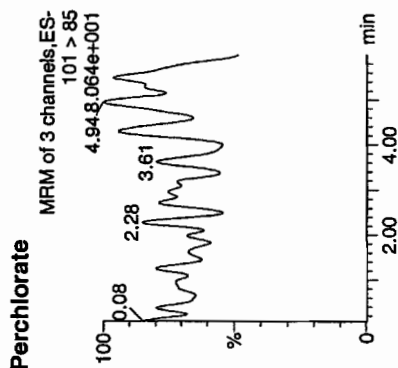
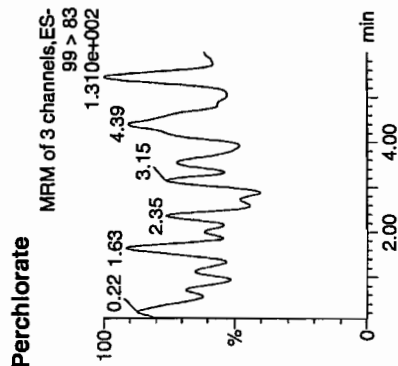
Dataset: C:\MassLynx\Perchlorate.PRO\per032110a.qld

Last Altered: Monday, March 22, 2010 8:36:52 AM Eastern Standard Time  
Printed: Monday, March 22, 2010 8:44:57 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per032110a.mdb 22 Mar 2010 07:45:14  
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per032110a.cdb 22 Mar 2010 08:36:51

Name: per0321001a  
Date: 21-Mar-2010  
Time: 14:08:19  
ID: IPB001  
Vial: 1:1,A

0.32210



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83											
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	3.98	13211.428	13211.428	bb			0.5058	✓101.16	1.16	2718.9...	0.00

1.16  
2718.9

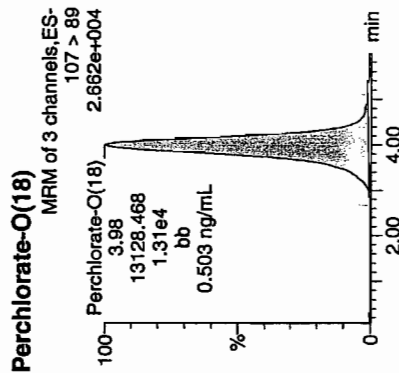
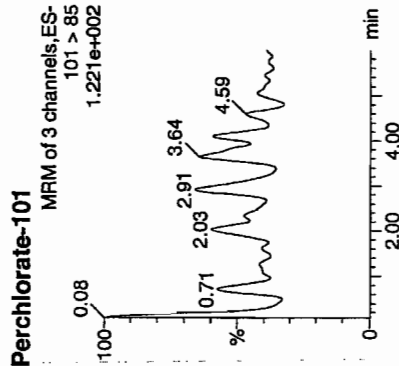
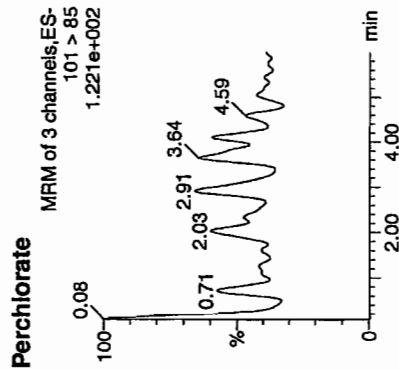
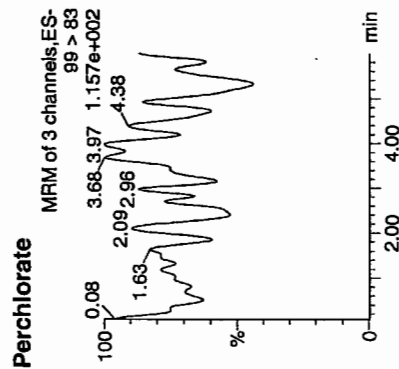
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032110a.qld

Last Altered: Monday, March 22, 2010 8:36:52 AM Eastern Standard Time  
Printed: Monday, March 22, 2010 8:44:57 AM Eastern Standard Time

Name: per0321002a  
Date: 21-Mar-2010  
Time: 14:17:21  
ID: IPB001  
Vial: 1:1,A

03-22-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83											0.00
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	3.98	13128.468	13128.468	bb			0.5026	100.53	0.53	305.753	

WAT  
3/22/10

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-2200

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	20-MAR-10	per0320008a	IPB002
Perchlorate-101	0.00	0	NA	20-MAR-10	per0320008a	IPB002
Perchlorate	0.00	0	NA	20-MAR-10	per0320010a	IPB003
Perchlorate-101	0.00	0	NA	20-MAR-10	per0320010a	IPB003
Perchlorate	0.00	0	NA	20-MAR-10	per0320023a	IPB004
Perchlorate-101	0.00	0	NA	20-MAR-10	per0320023a	IPB004
Perchlorate	0.00	0	NA	20-MAR-10	per0320026a	IPB005
Perchlorate-101	0.00	0	NA	20-MAR-10	per0320026a	IPB005
Perchlorate	0.00	0	NA	20-MAR-10	per0320036a	IPB006
Perchlorate-101	0.00	0	NA	20-MAR-10	per0320036a	IPB006
Perchlorate	0.00	0	NA	20-MAR-10	per0320049a	IPB007
Perchlorate-101	0.00	0	NA	20-MAR-10	per0320049a	IPB007
Perchlorate	0.00	0	NA	21-MAR-10	per0320059a	IPB008

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-2200

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units:  $\mu\text{g/kg}$

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate-101	0.00	0	NA	21-MAR-10	per0320059a	IPB008
Perchlorate	0.00	0	NA	21-MAR-10	per0320072a	IPB009
Perchlorate-101	0.00	0	NA	21-MAR-10	per0320072a	IPB009
Perchlorate	0.00	0	NA	21-MAR-10	per0320085a	IPB010
Perchlorate-101	0.00	0	NA	21-MAR-10	per0320085a	IPB010
Perchlorate	0.00	0	NA	21-MAR-10	per0320090a	IPB011
Perchlorate-101	0.00	0	NA	21-MAR-10	per0320090a	IPB011
Perchlorate	0.00	0	NA	21-MAR-10	per0320098a	IPB012
Perchlorate-101	0.00	0	NA	21-MAR-10	per0320098a	IPB012
Perchlorate	0.00	0	NA	21-MAR-10	per0320111a	IPB013
Perchlorate-101	0.00	0	NA	21-MAR-10	per0320111a	IPB013
Perchlorate	0.00	0	NA	21-MAR-10	per0320123a	IPB014
Perchlorate-101	0.00	0	NA	21-MAR-10	per0320123a	IPB014

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-2200

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units:  $\mu\text{g/kg}$

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	21-MAR-10	per0321008a	IPB002
Perchlorate-101	0.00	0	NA	21-MAR-10	per0321008a	IPB002
Perchlorate	0.00	0	NA	21-MAR-10	per0321010a	IPB003
Perchlorate-101	0.00	0	NA	21-MAR-10	per0321010a	IPB003
Perchlorate	0.00	0	NA	21-MAR-10	per0321015a	IPB004
Perchlorate-101	0.00	0	NA	21-MAR-10	per0321015a	IPB004
Perchlorate	0.00	0	NA	21-MAR-10	per0321023a	IPB005
Perchlorate-101	0.00	0	NA	21-MAR-10	per0321023a	IPB005

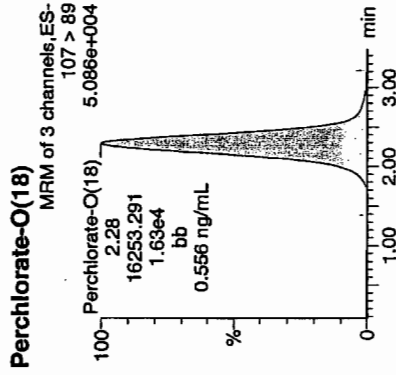
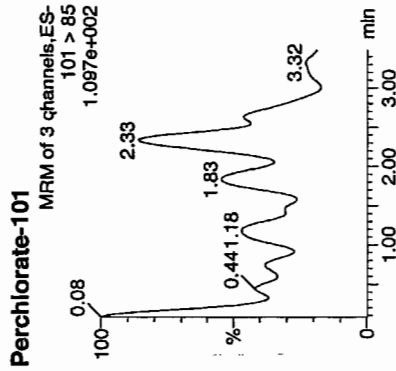
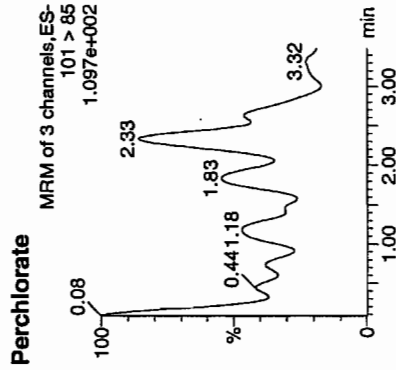
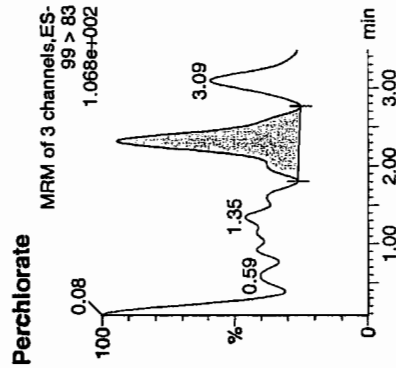
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320008a  
Date: 20-Mar-2010  
Time: 18:33:51  
ID: IPB002  
Vial: 1:1,A

03-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB002	Perchlorate	99 > 83	2.32	24.778	24.778	bb			0.0007			4.872	0.00
IPB002	Perchlorate-101	101 > 85											
IPB002	Perchlorate-O(18)	107 > 89	2.28	16253.291	16253.291	bb			0.5558	111.17	11.17	3630.5...	

4.077  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

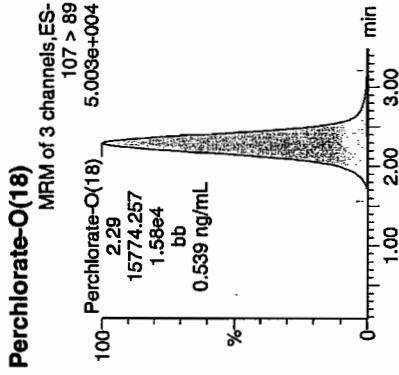
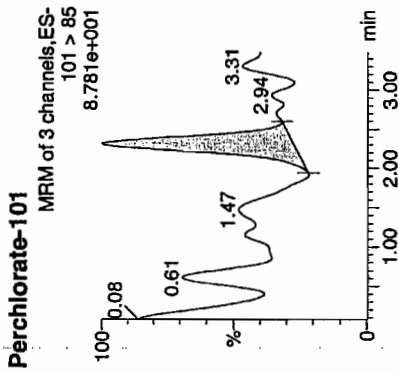
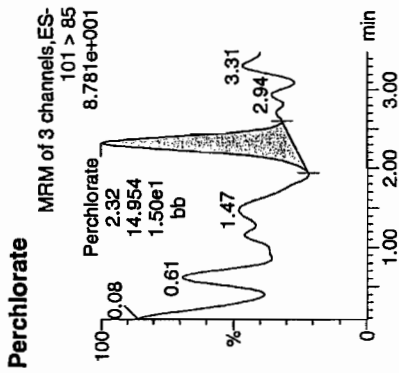
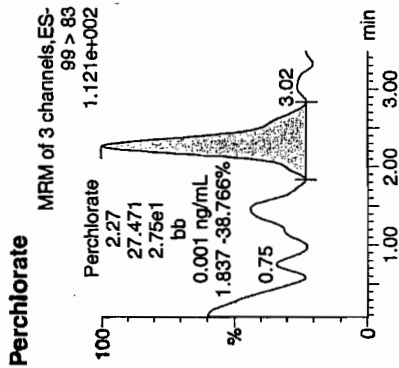


Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320010a  
Date: 20-Mar-2010  
Time: 18:47:03  
ID: IPB003  
Vial: 1:1,A

03-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB003	Perchlorate	99 > 83	2.27	27.471	27.471	bb			0.0008			21.678	1.84
IPB003	Perchlorate-101	101 > 85	2.32	14.954	14.954	bb			0.0013			6.080	
IPB003	Perchlorate-O(18)	107 > 89	2.29	15774.257	15774.257	bb			0.5395	107.89	7.89	8317.1...	

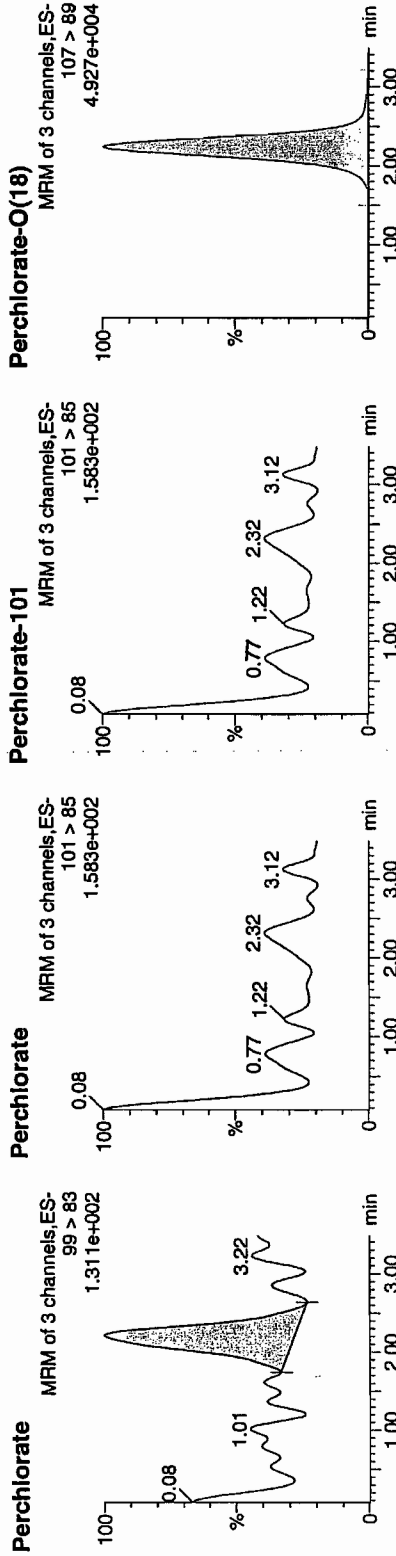
0.539  
2.00300  
1.84  
3/22/10

Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson  
Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320023a  
Date: 20-Mar-2010  
Time: 20:12:28  
ID: IPB004  
Vial: 1:1,A

03-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB004	Perchlorate	99 > 83	2.22	35.438	35.438	bb			0.0010			17.622	0.00
IPB004	Perchlorate-101	101 > 85											
IPB004	Perchlorate-O(18)	107 > 89	2.24	15247.189	15247.189	bb			0.5214	104.29	4.29	6853.8...	

1477  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320026a

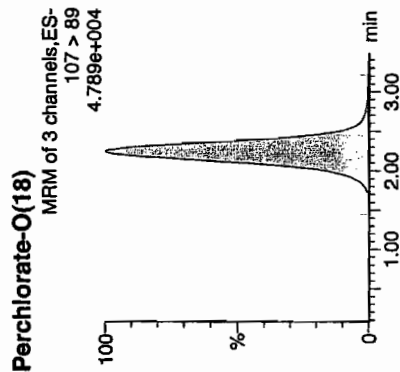
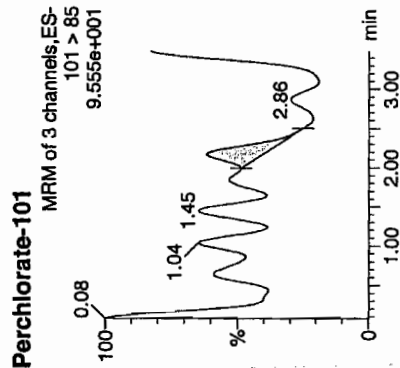
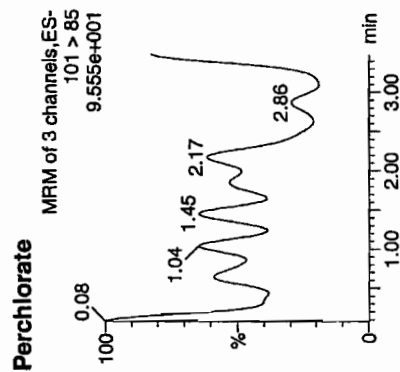
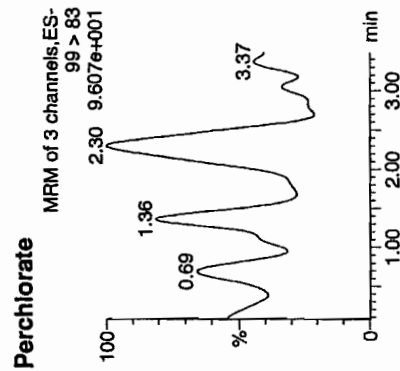
Date: 20-Mar-2010

Time: 20:32:03

ID: IPB005

Vial: 1:1,A

032110



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
IPB005	Perchlorate	99 > 83											
IPB005	Perchlorate-101	101 > 85	2.17	4.465	4.465	bb			0.0004	101.81	1.81	4151.4...	6.412
IPB005	Perchlorate-O(18)	107 > 89	2.24	14884.996	14884.996	bb			0.5090	101.81	1.81	4151.4...	6.412

WAF  
3/22/10

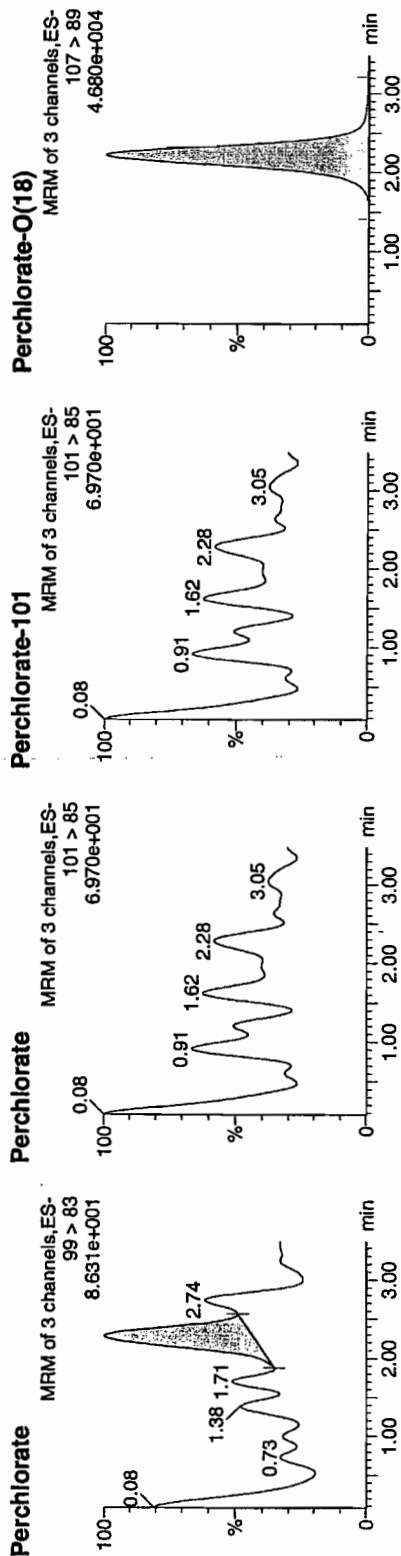
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320036a  
Date: 20-Mar-2010  
Time: 21:37:39  
ID: IPB006  
Vial: 1:1,A

03-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB006	Perchlorate	99 > 83	2.28	13.999	13.999	bb			0.0004			13.159	0.00
IPB006	Perchlorate-101	101 > 85											
IPB006	Perchlorate-O(18)	107 > 89	2.22	14593.702	14593.702	bb			0.4991	99.82	-0.18	6671.3...	

1547  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

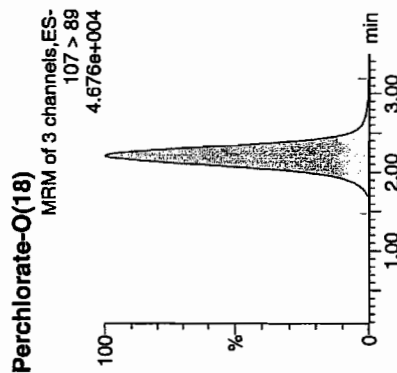
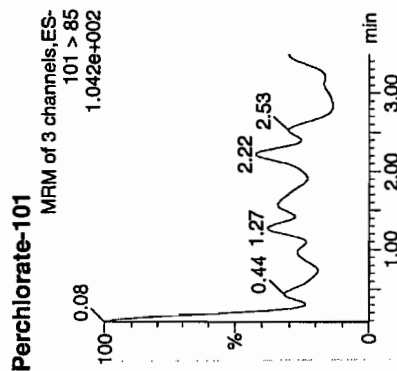
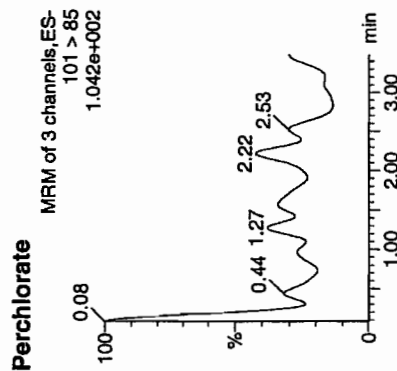
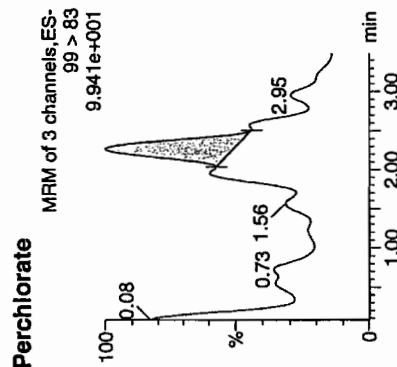
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320049a  
Date: 20-Mar-2010  
Time: 23:03:06  
ID: IPB007  
Vial: 1:1,A

03-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB007	Perchlorate	99 > 83	2.25	11.818	11.818	bb			0.0003			2.463	0.00
IPB007	Perchlorate-101	101 > 85											
IPB007	Perchlorate-O(18)	107 > 89	2.20	14586.283	14586.283	bb			0.4988	99.77	-0.23	371.979	

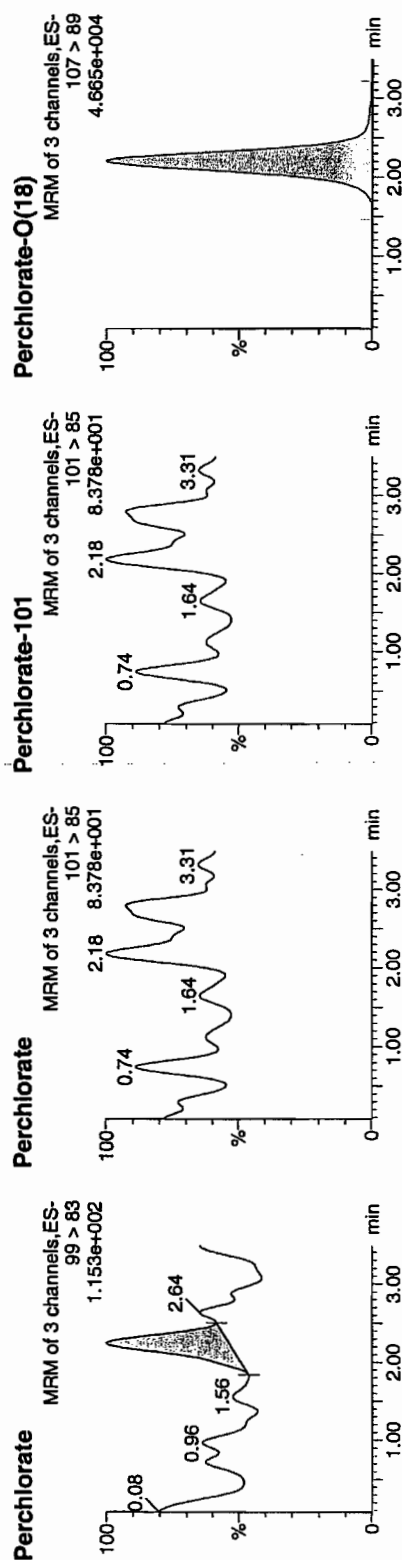
14587  
3/22/10

**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson  
Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320059a  
Date: 21-Mar-2010  
Time: 00:08:48  
ID: IPB008  
Vial: 1:1,A

03-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB008	Perchlorate	99 > 83	2.24	15.258	15.258	bb			0.0004			27.939	0.00
IPB008	Perchlorate-101	101 > 85											
IPB008	Perchlorate-O(18)	107 > 89	2.20	14654.755	14654.755	bb			0.5012	100.24	0.24	2844.1...	

107  
3/22/10

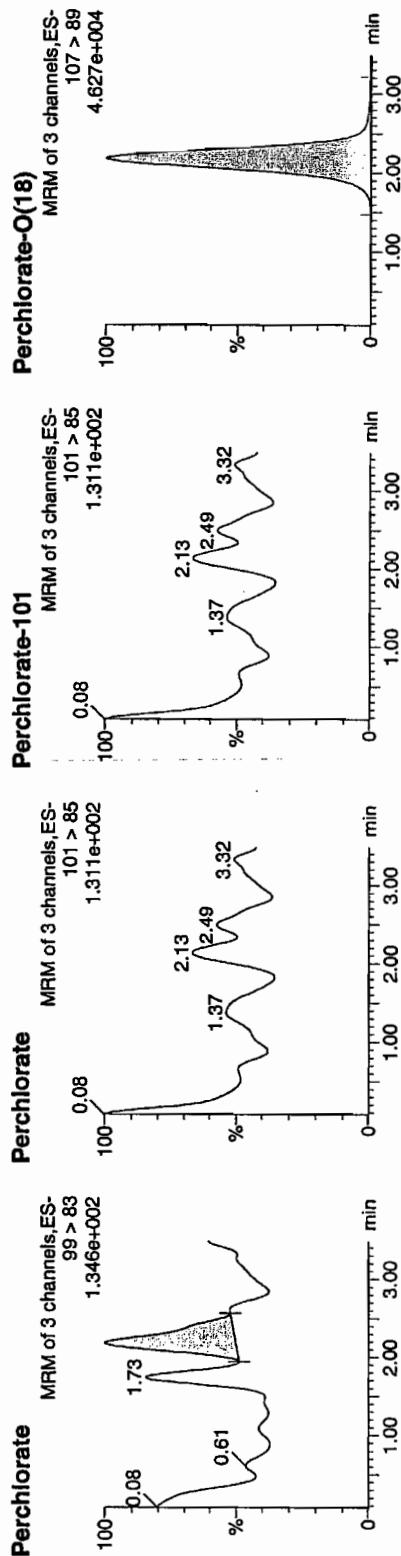
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320072a  
Date: 21-Mar-2010  
Time: 01:35:14  
ID: IPB009  
Vial: 1:1,A

03-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB009	Perchlorate	99 > 83	2.18	18.641	18.641	bb			0.0005			10.490	0.00
IPB009	Perchlorate-101	101 > 85											
IPB009	Perchlorate-O(18)	107 > 89	2.18	14361.636	14361.636	bb			0.4912	98.23	-1.77	1708.3...	

1447  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

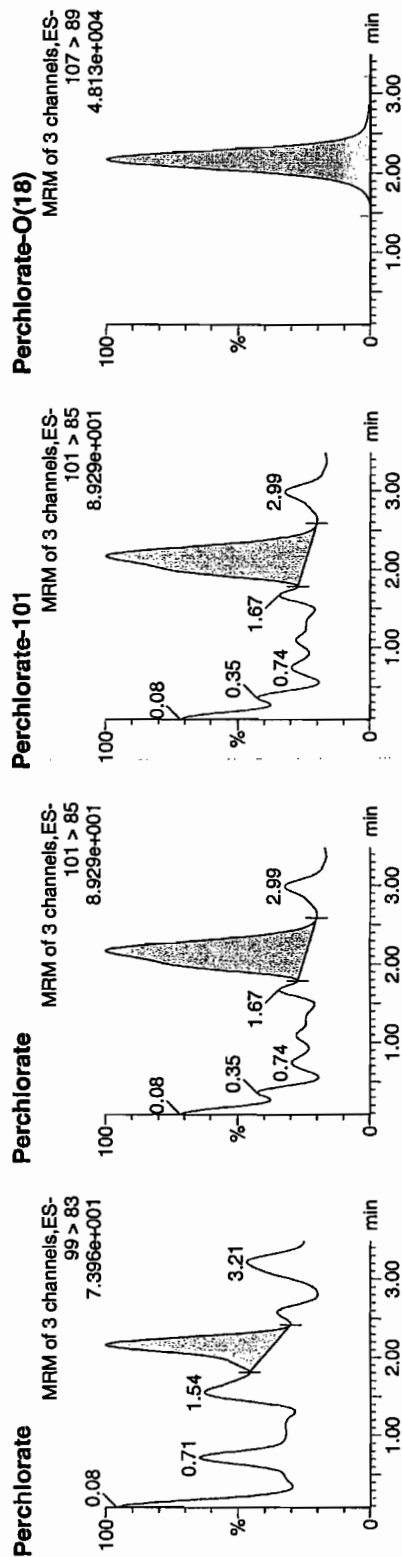
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

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Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320085a  
Date: 21-Mar-2010  
Time: 03:01:15  
ID: IPB010  
Vial: 1:1,A

03-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB010	Perchlorate	99 > 83	2.15	11,429	11,429	bb			0.0003			5,912	0.47
IPB010	Perchlorate-101	101 > 85	2.17	24,252	24,252	bb			0.0021			2,803	
IPB010	Perchlorate-O(18)	107 > 89	2.17	15003.273	15003.273	bb			0.5131	102.62	2.62	11371...	

Not  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification



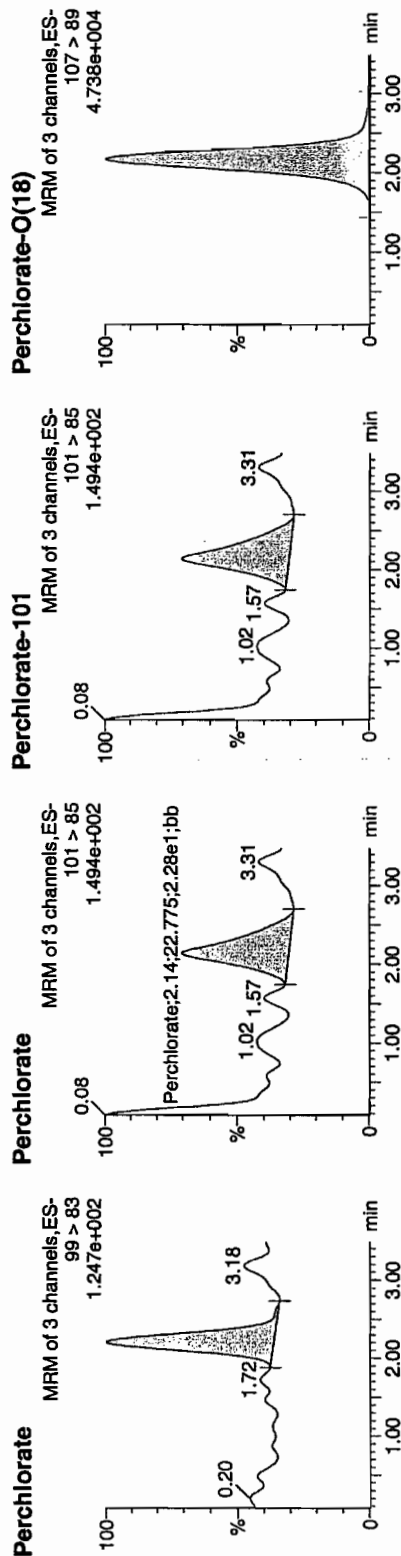
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320090a  
Date: 21-Mar-2010  
Time: 03:34:14  
ID: IPB011  
Vial: 1:1,A

0.003  
33.21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod	Date	Mod	Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB011	Perchlorate	99 > 83	2.20	20.875	20.875	bb					0.0006	21.413	0.92		
IPB011	Perchlorate-101	101 > 85	2.14	22.775	22.775	bb					0.0019	13.437			
IPB011	Perchlorate-O(18)	107 > 89	2.17	14664.649	14664.649	bb					0.5015	100.30	0.30	2625.9...	

0.003  
33.21-10

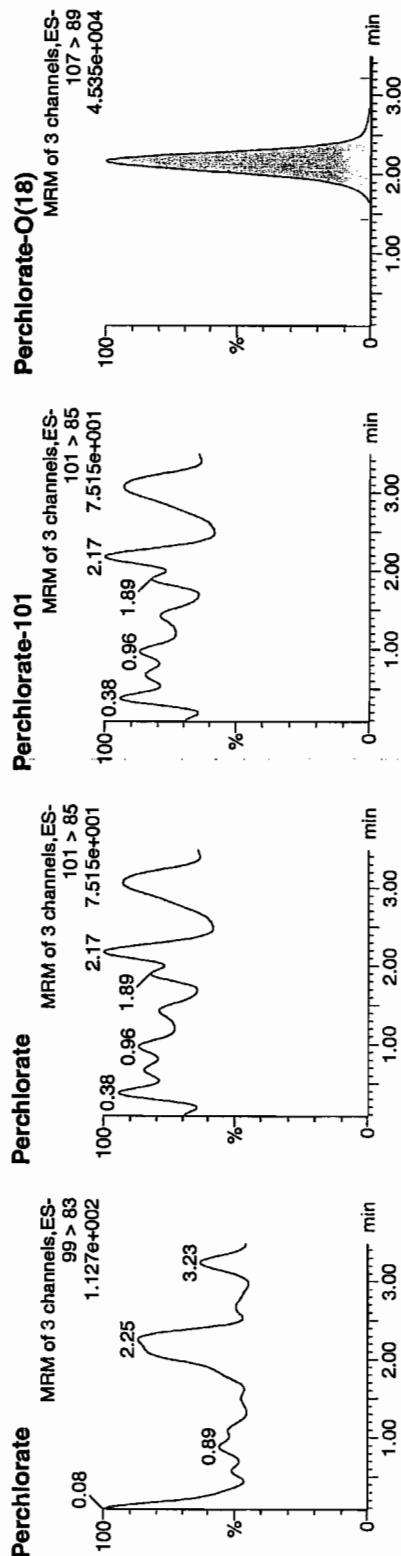
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

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Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320098a  
Date: 21-Mar-2010  
Time: 04:27:33  
ID: IPB012  
Vial: 1:1,A

0321-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB012	Perchlorate	99 > 83											0.00
IPB012	Perchlorate-101	101 > 85	2.15	14243.006	14243.006	bb			0.4871	97.42	-2.58	1250.8...	
IPB012	Perchlorate-O(18)	107 > 89											

μMT  
3/22/10

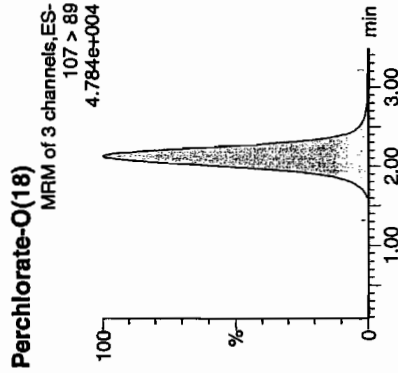
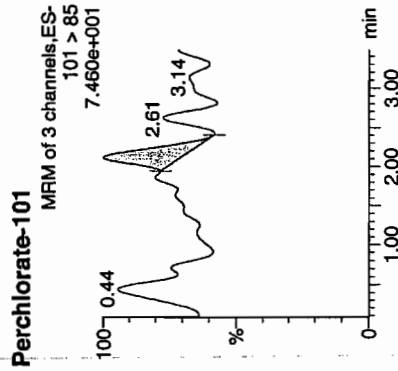
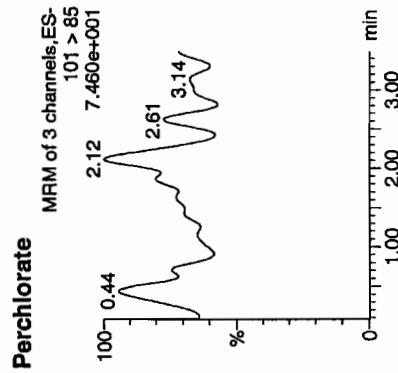
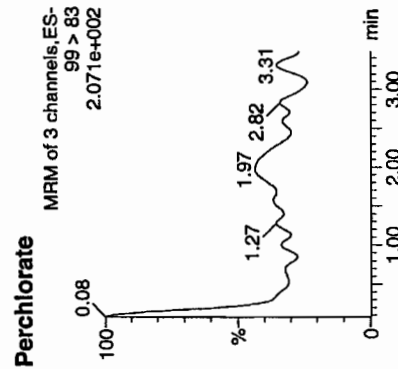
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320111a  
Date: 21-Mar-2010  
Time: 05:53:12  
ID: IPB013  
Vial: 1:1,A

03-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/ml	%Rec	%Dev	S/N	Ion Ratio
IPB013	Perchlorate	99 > 83	2.12	4.832	4.832	bb			0.0004	101.60	1.60	3401.5...	0.00
IPB013	Perchlorate-101	101 > 85	2.12	4.832	4.832	bb			0.0004	101.60	1.60	3401.5...	0.00
IPB013	Perchlorate-O(18)	107 > 89	2.12	14854.877	14854.877	bb			0.5080	101.60	1.60	3401.5...	0.00

3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

# Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

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 Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320123a

Date: 21-Mar-2010

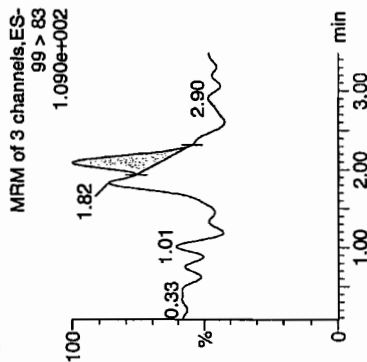
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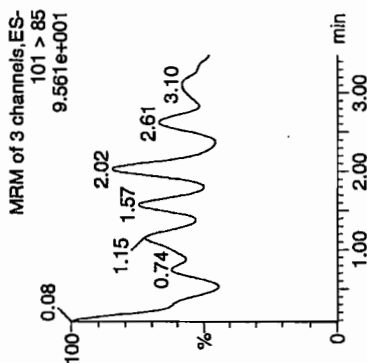
Vial: 1:1,A

03-21-10

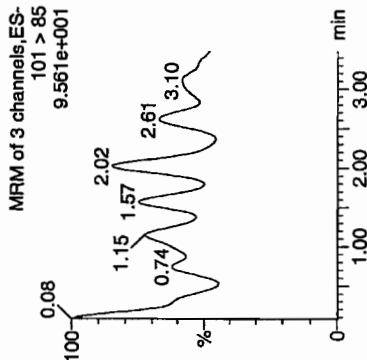
## Perchlorate



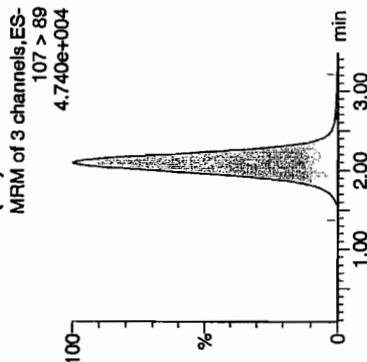
## Perchlorate



## Perchlorate-101



## Perchlorate-Q(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB014	Perchlorate	99 > 83	2.08	6.500	6.500	bb			0.0002			17.569	0.00
IPB014	Perchlorate-101	101 > 85											
IPB014	Perchlorate-Q(18)	107 > 89	2.09	14687.938	14687.938	bb			0.5023	100.46	0.46	1690.5...	

4477  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

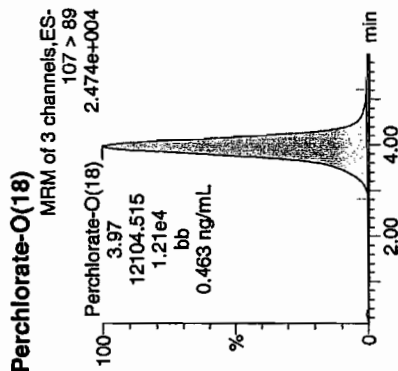
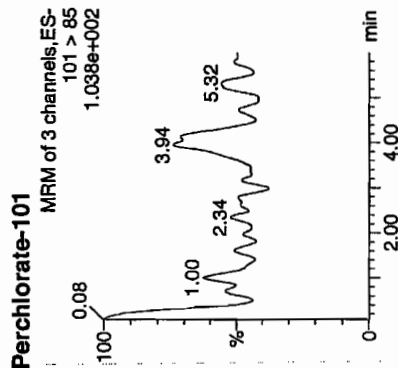
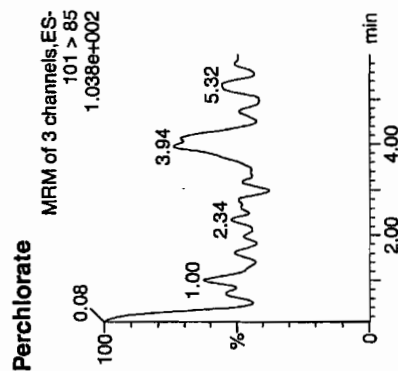
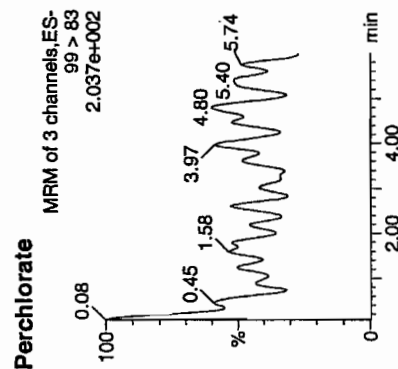
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032110a.qld

Last Altered: Monday, March 22, 2010 8:36:52 AM Eastern Standard Time  
Printed: Monday, March 22, 2010 8:44:57 AM Eastern Standard Time

Name: per0321008a  
Date: 21-Mar-2010  
Time: 15:11:27  
ID: IPB002  
Vial: 1:1,A

03-22-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB002	Perchlorate	99 > 83											0.00
IPB002	Perchlorate-101	101 > 85											
IPB002	Perchlorate-O(18)	107 > 89	3.97	12104.515	12104.515	bb			0.4634	92.69	-7.31	1276.6...	

1277  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

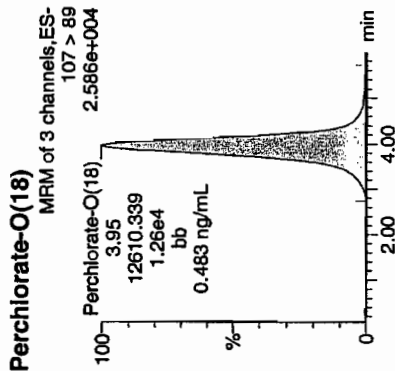
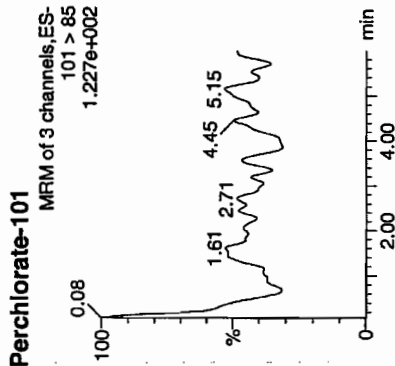
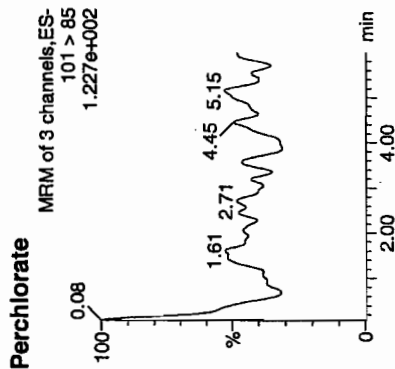
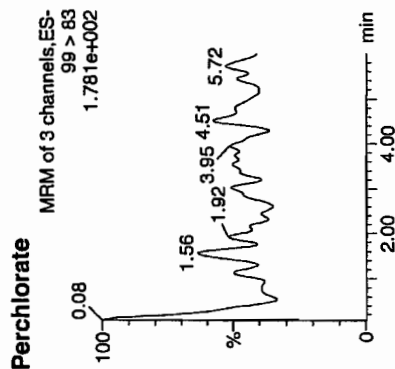
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032110a.qld

Last Altered: Monday, March 22, 2010 8:36:52 AM Eastern Standard Time  
Printed: Monday, March 22, 2010 8:44:57 AM Eastern Standard Time

Name: per0321010a  
Date: 21-Mar-2010  
Time: 15:29:32  
ID: IPB003  
Vial: 1:1,A

03-22-10



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	3.95	12610.339	12610.339	bb			0.4828	96.56	-3.44	773.509	

4077  
3/22/10

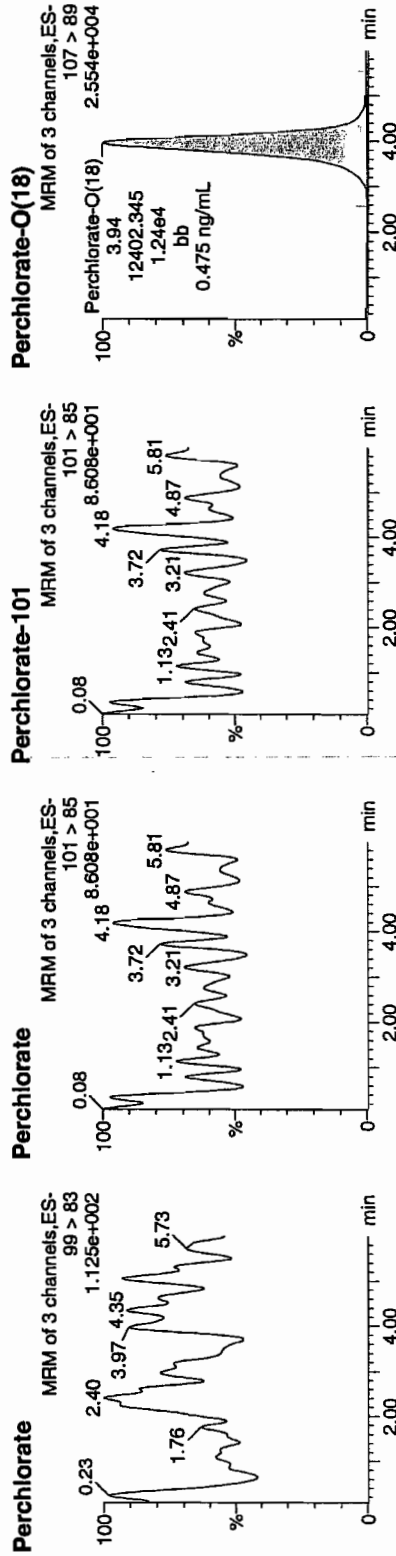
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032110a.qld

Last Altered: Monday, March 22, 2010 8:36:52 AM Eastern Standard Time  
Printed: Monday, March 22, 2010 8:44:57 AM Eastern Standard Time

Name: per0321015a  
Date: 21-Mar-2010  
Time: 16:15:03  
ID: IPB004  
Vial: 1:1,A

03-22-10



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											
IPB004	Perchlorate-O(18)	107 > 89	3.94	12402.345	12402.345	bb			0.4748	94.97	-5.03	1264.4...	

107  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

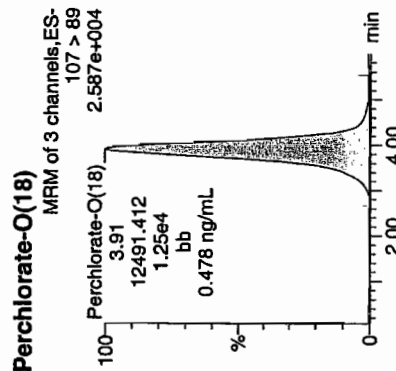
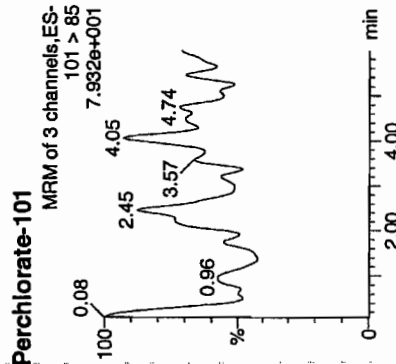
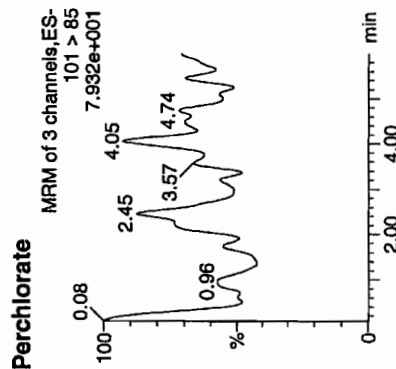
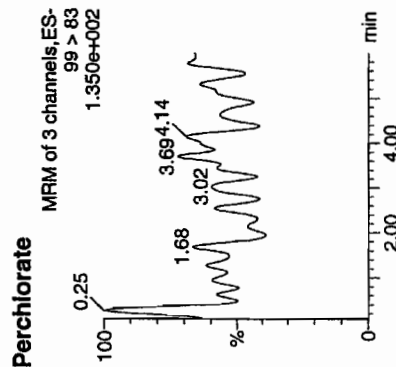
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032110a.qld

Last Altered: Monday, March 22, 2010 8:36:52 AM Eastern Standard Time  
Printed: Monday, March 22, 2010 8:44:57 AM Eastern Standard Time

Name: per0321023a  
Date: 21-Mar-2010  
Time: 17:27:22  
ID: IPB005  
Vial: 1:1,A

0.00  
0.00-1.0



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
IPB005	Perchlorate	99 > 83											0.00
IPB005	Perchlorate-101	101 > 85											
IPB005	Perchlorate-O(18)	107 > 89	3.91	12491.412	12491.412	bb			0.4783	95.65	-4.35	1026.6...	

1.477  
3/22/10



Nairb.ref

;Positive ion monoisotopic and average masses from solution  
 ;of NaI/Rbi (2.0/0.05ug/ul) in 50/20 2-propanol/H<sub>2</sub>O.  
 ;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

QUATRO ULTIMA: nairb\_01\_08\_08.cal

Calibration Report - MS1 Static

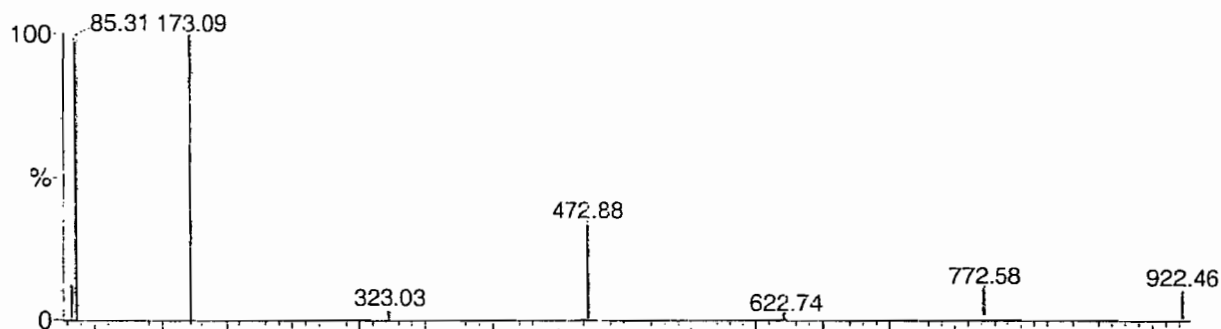
Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

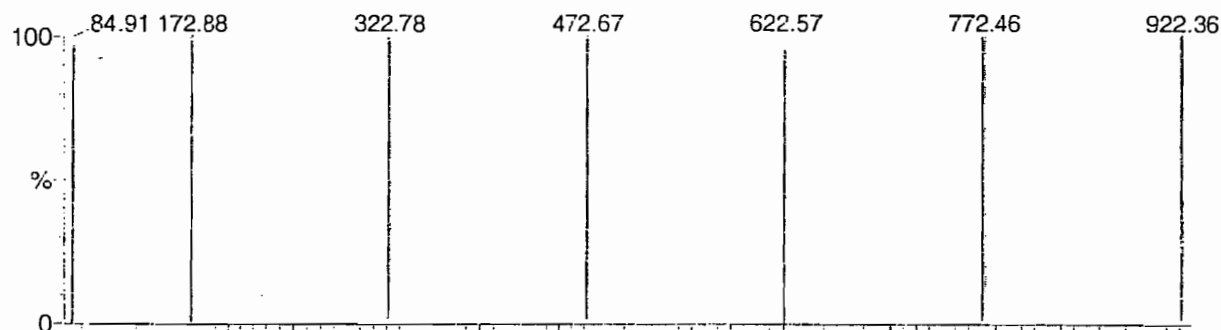
FILES HIGHLIGHTED BY CALIB 01-07-03

Data file: STATMS1 - Uncalibrated

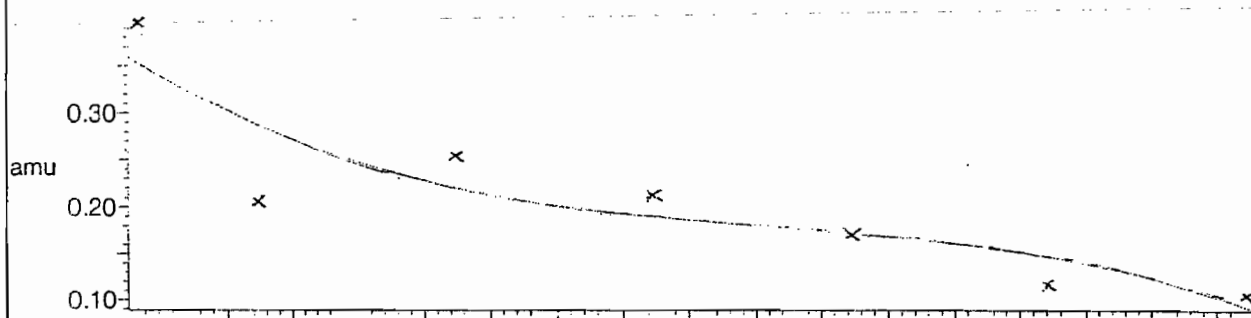
7 matches of 7 tested references



Reference file: Nairb

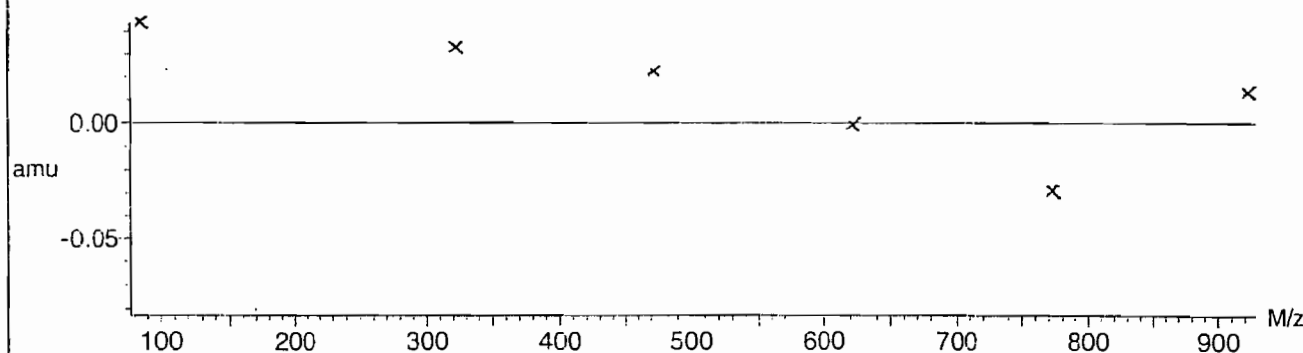


Mass difference (Raw - Ref mass)



Residuals

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



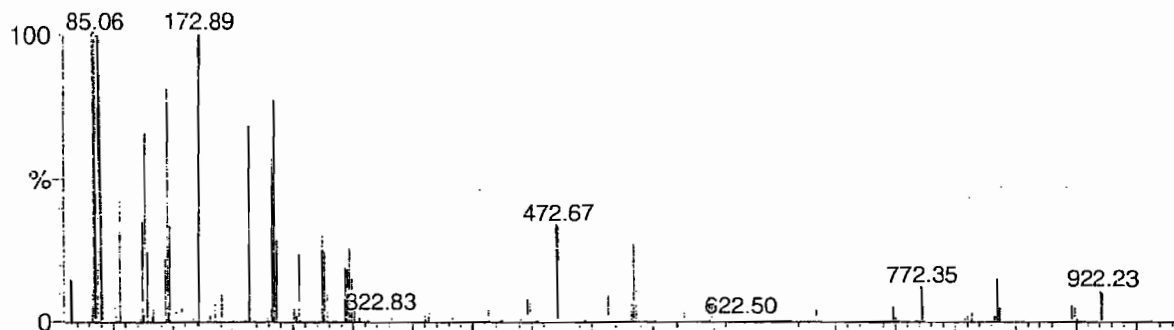
Calibration Report - MS1 Scanning

Page 1 of 1

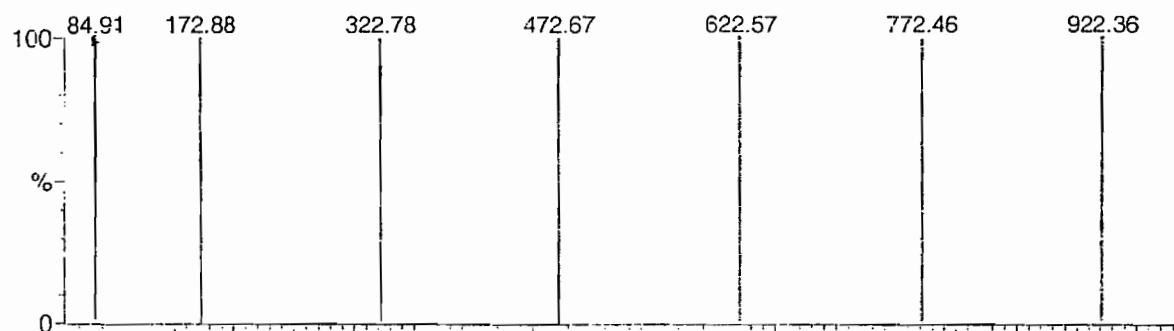
Printed: Tue Jan 08 12:20:09 2008

Data file: SCNMS1 - Uncalibrated

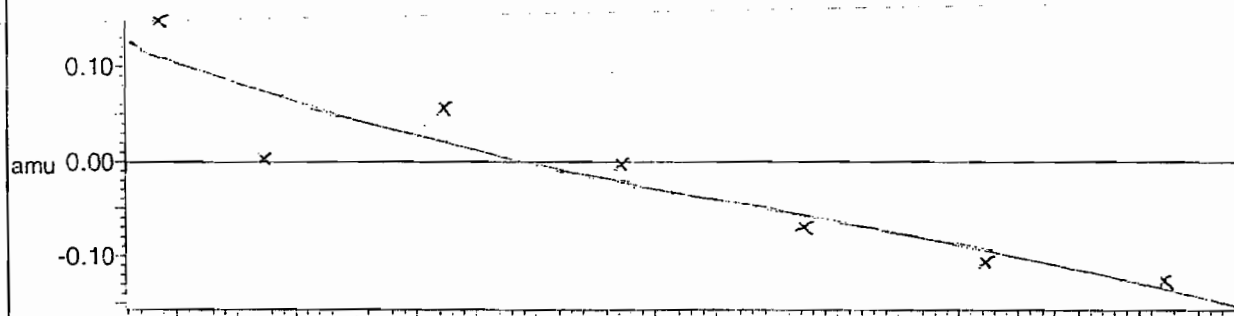
7 matches of 7 tested references



Reference file: Nairb

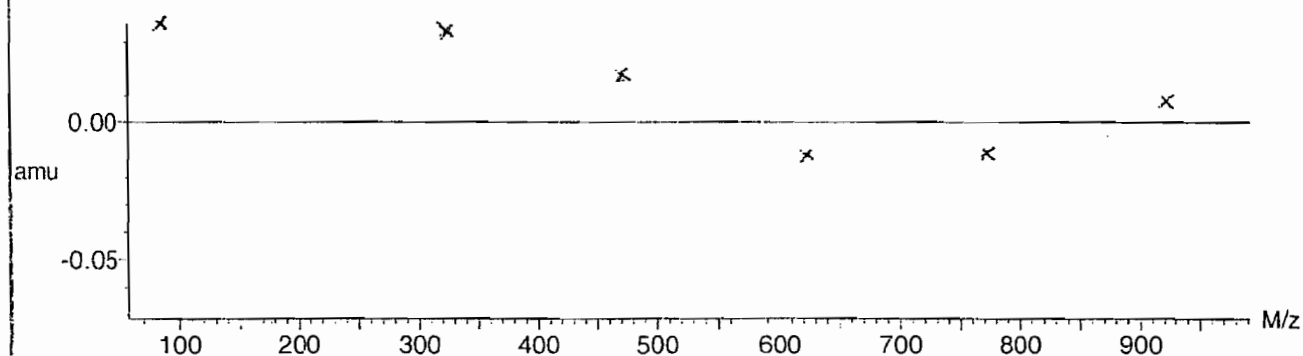


Mass difference (Raw - Ref mass)



Residuals

Mean residual =  $2.732691 \times 10^{-2} \pm 0.020653$



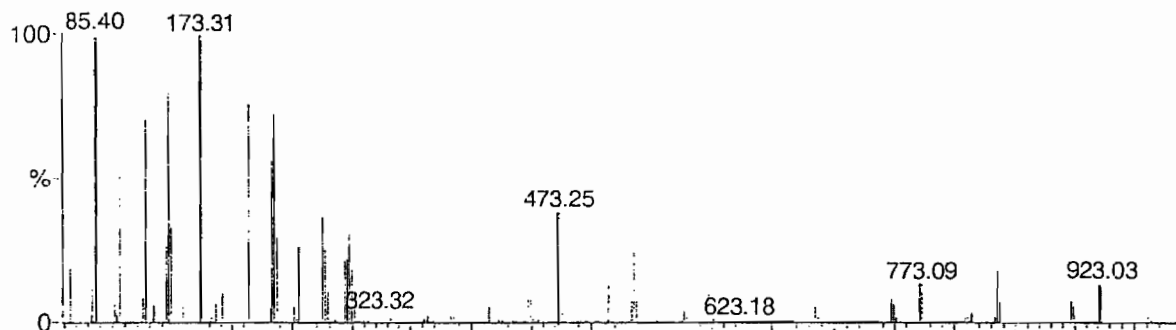
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

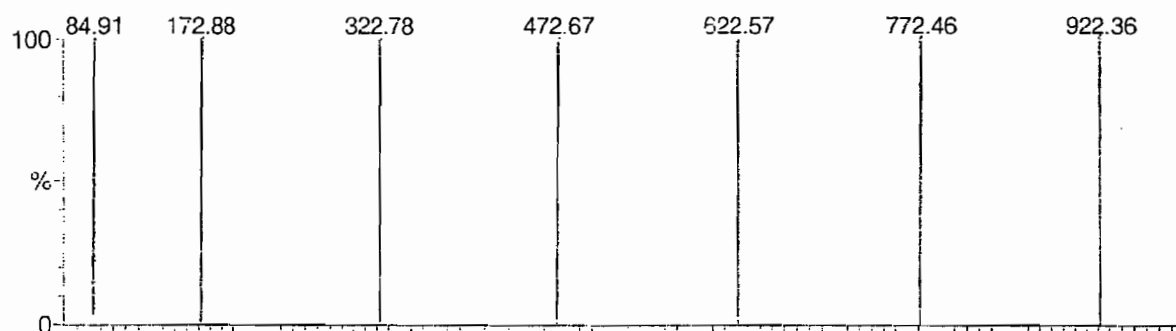
Printed: Tue Jan 08 12:21:04 2008

Data file: FASTMS1 - Uncalibrated

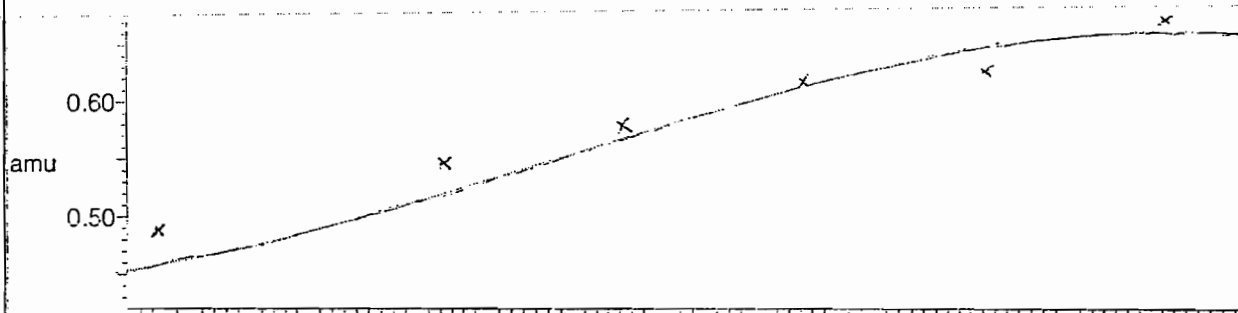
7 matches of 7 tested references



Reference file: Nairb

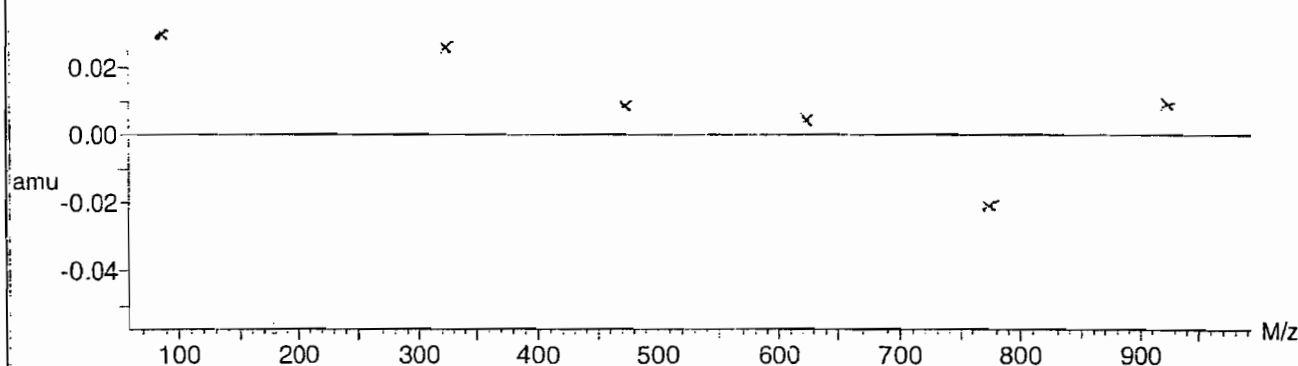


Mass difference (Raw - Ref mass)



Residuals

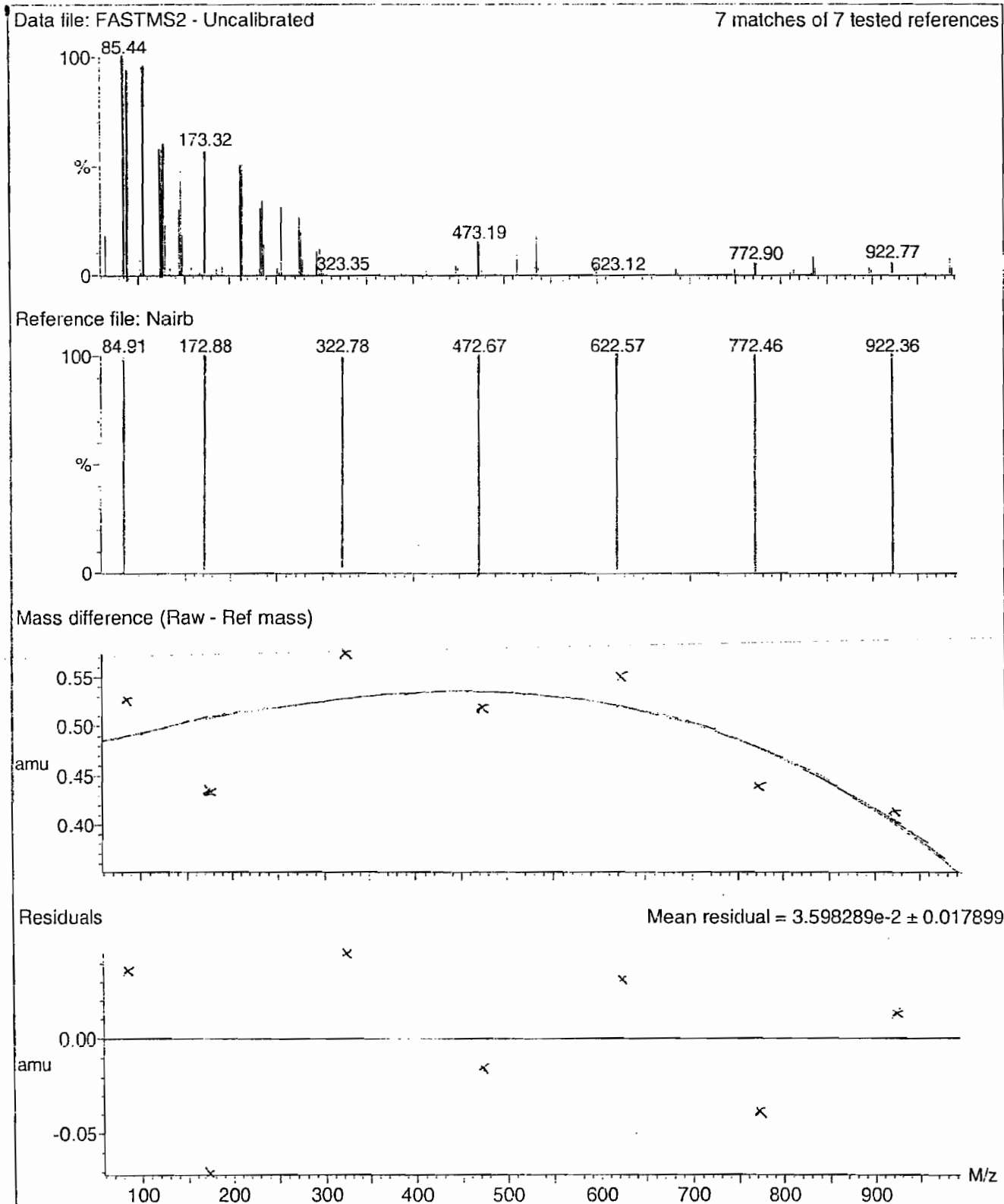
Mean residual =  $2.224580 \times 10^{-2} \pm 0.016544$



Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

Printed: Tue Jan 08 12:23:51 2008



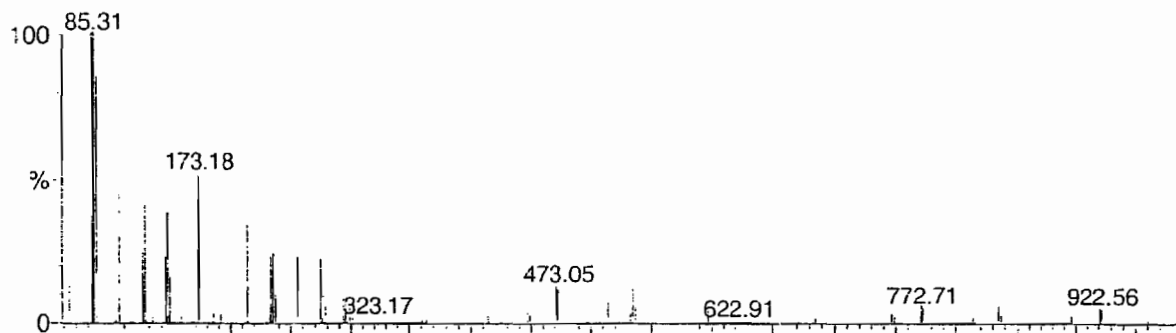
Calibration Report - MS2 Scanning

Page 1 of 1

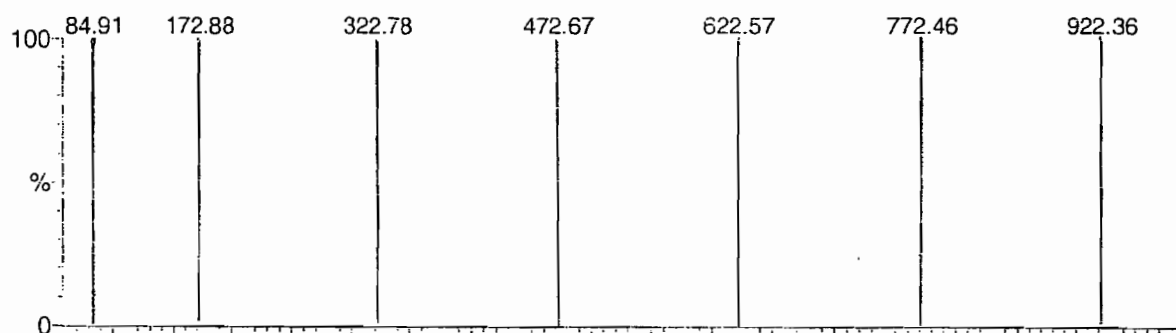
Printed: Tue Jan 08 12:22:56 2008

Data file: SCNMS2 - Uncalibrated

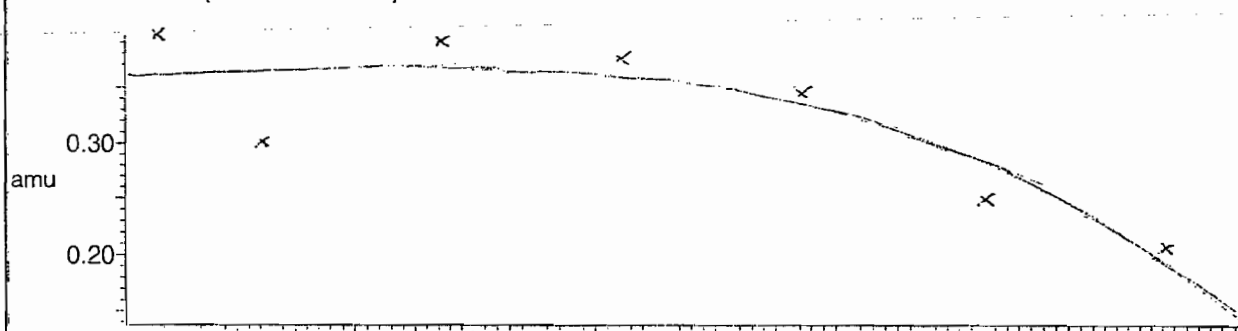
7 matches of 7 tested references



Reference file: Nairb

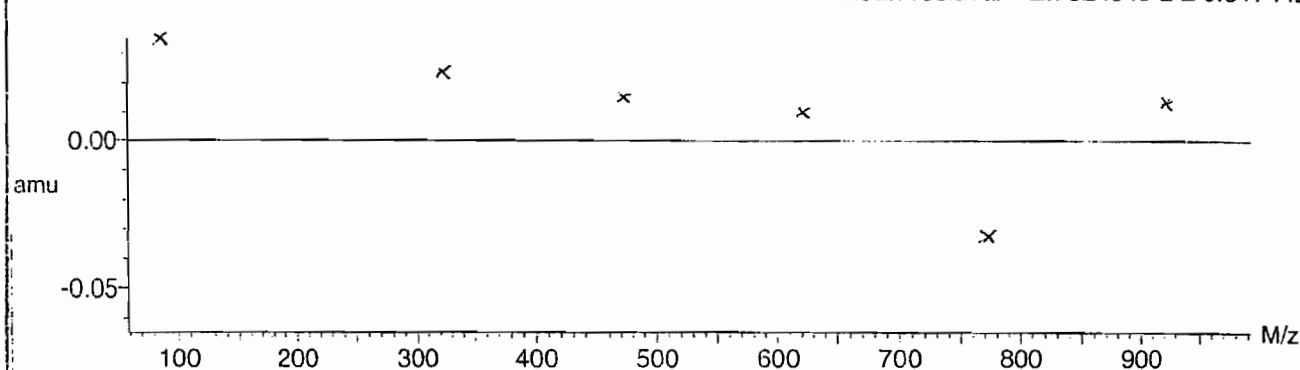


Mass difference (Raw - Ref mass)



Residuals

Mean residual =  $2.782494 \times 10^{-2} \pm 0.017442$



Calibration Report - MS2 Static

Page 1 of 1

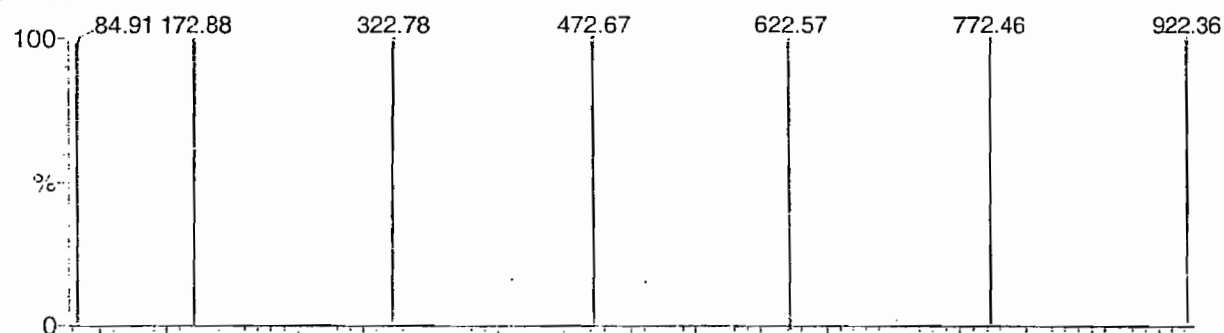
Printed: Tue Jan 08 12:21:59 2008

Data file: STATMS2 - Uncalibrated

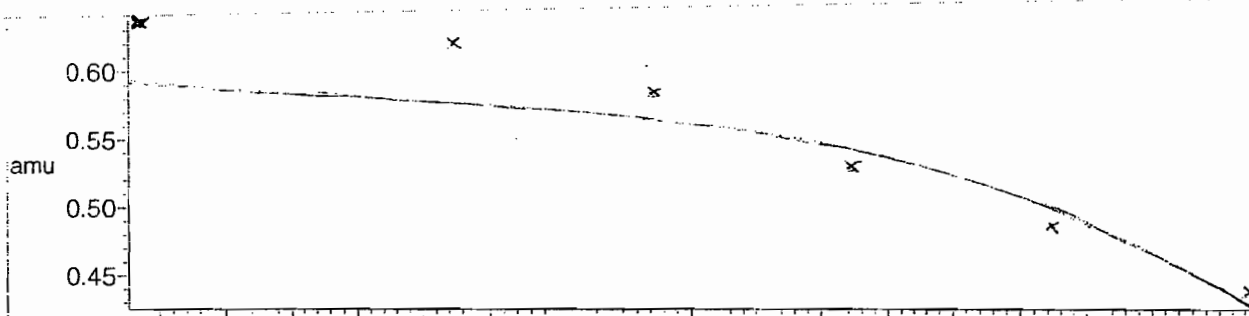
7 matches of 7 tested references



Reference file: Nairb

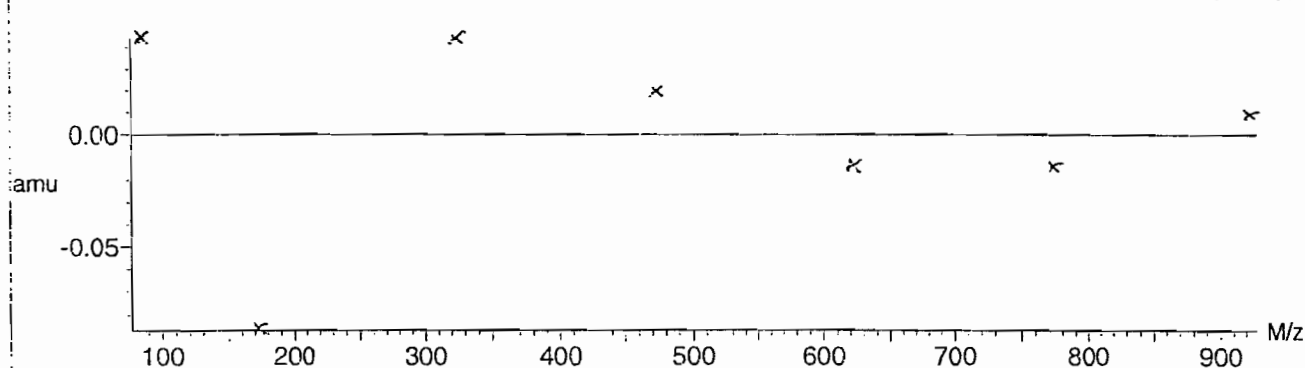


Mass difference (Raw - Ref mass)



Residuals

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



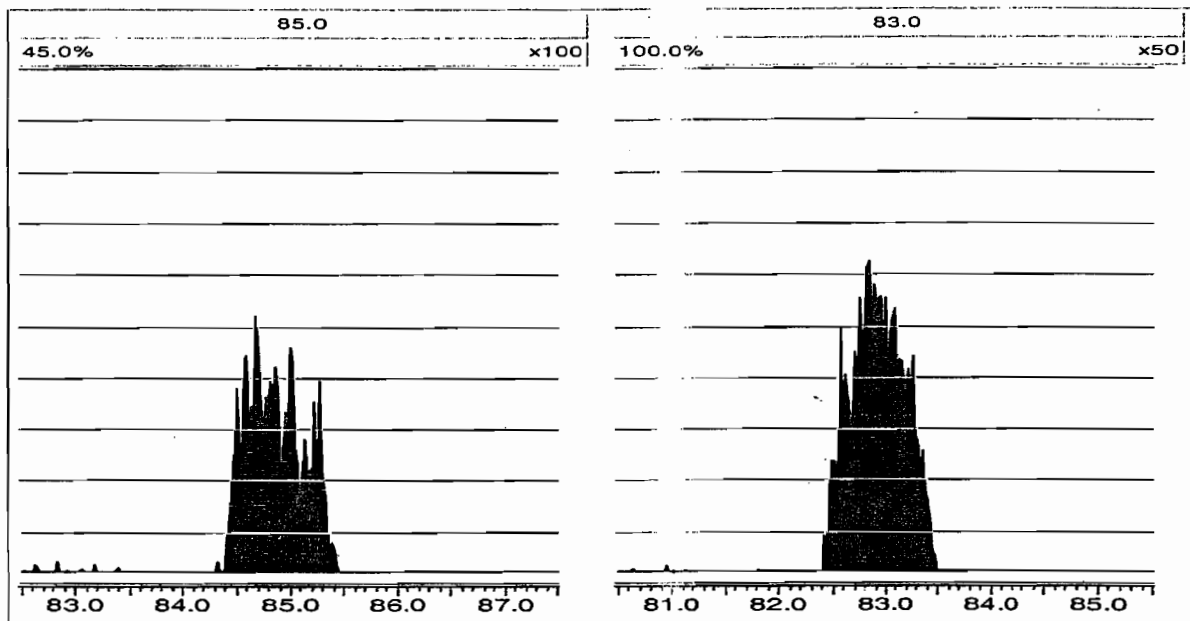
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Saturday, March 20, 2010 14:09:28 Eastern Standard Time





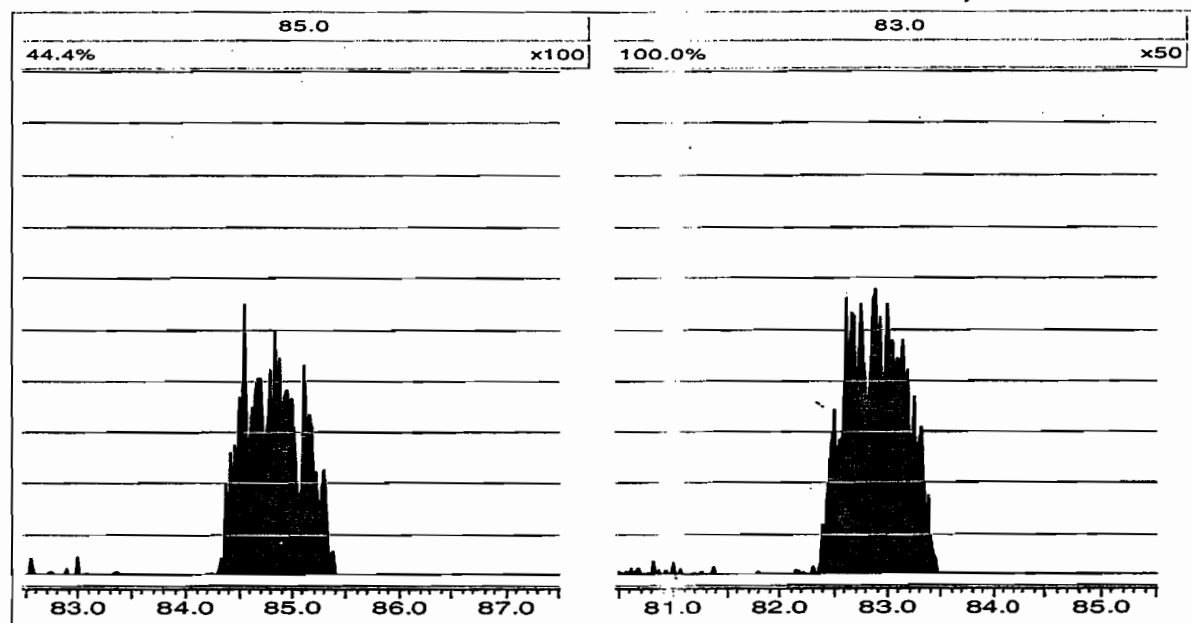
**Tune Parameters**

**MassLynx 4.0 SP4**

Page 1 of 1

File: C:\MassLynx\Perchlorate.PROVACQUDB\Perchlorate.IPR

Printed: Sunday, March 21, 2010 10:25:31 Eastern Standard Time



Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS

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

GEL Job No.(SDG): 10-2200

Sample ID	Datafile	Run Date	Area	RT	RT CLO4	RRT	Q 0.98-1.02
MidLevel Standard Area	per0320006a	20-MAR-10	15678.1				
Lower Area Limit			7839.05				
Upper Area Limit			31356.2				
1202067815	per0320091a	21-MAR-10 03:41	13224.6	2.17	2.1909	1.01	
1202067816	per0320092a	21-MAR-10 03:47	13753.8	2.17	2.17848	1.004	
1202067819	per0320093a	21-MAR-10 03:54	14281.9	2.22	2.22817	1.004	
248520001	per0320106a	21-MAR-10 05:20	14024.3	2.14	2.16613	1.012	
1202067817	per0320107a	21-MAR-10 05:26	13685.8	2.14	2.15367	1.006	
1202067818	per0320108a	21-MAR-10 05:33	14055.8	2.14	2.15363	1.006	
248520003	per0320113a	21-MAR-10 06:06	13277.3	2.13	2.12882	.999	
248520006	per0320116a	21-MAR-10 06:26	13506.6	2.12	2.12887	1.004	

Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2200

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	per0320006a	20-MAR-10	15678.1				
Lower Area Limit			7839.05				
Upper Area Limit			31356.2				
248520007	per0320117a	21-MAR-10 06:32	13905.1	2.12	2.12887	1.004	
248520008	per0320118a	21-MAR-10 06:39	13703.7	2.1	2.12885	1.014	
248520009	per0320119a	21-MAR-10 06:45	13553.8	2.1	2.11635	1.008	
248520010	per0320120a	21-MAR-10 06:52	13535.9	2.1	2.11642	1.008	
248520011	per0320121a	21-MAR-10 06:58	13407.8	2.1	2.11638	1.008	

## Perchlorate RT And Area Summary

PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

GEL Job No.(SDG): 10-2200Lab Name: General Engineering LaboratoriesLab Code: GELInstrument ID: LCMSMSHPLC 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	per0321006a	21-MAR-10	12967.6				
Lower Area Limit			6483.8				
Upper Area Limit			25935.2				
248520002	per0321012a	21-MAR-10 15:47	11843.5	3.92	3.94247	1.006	
248520004	per0321013a	21-MAR-10 15:56	13225.1	3.93	3.94247	1.003	
248520005	per0321014a	21-MAR-10 16:06	12906.1	3.94	3.99223	1.013	

# SAMPLE DATA

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 963901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8288

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520001

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 84

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.598	2.39	11.1	ug/kg		1	21-MAR-10 05:20	per0320106a
	Perchlorate Isotope Ratio			3.09			1	21-MAR-10 05:20	per0320106a
14797-73-0	Perchlorate-101	.598	2.39	10.9	ug/kg		1	21-MAR-10 05:20	per0320106a
	Perchlorate-O(18)			5.74	ug/kg		1	21-MAR-10 05:20	per0320106a

<sup>^</sup> 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 %Solids  
Aliquot

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320106a

Date: 21-Mar-2010

Time: 05:20:10

ID: 248520001

Vial: 2:6,F

03-21-10

1003902 | 3020 | 11

Perchlorate

MRM of 3 channels, ES-

99 > 83

1.062e+005

Perchlorate

33101.090

3.31e4

bb

0.929 ng/mL

3.093 3.100%

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

Perchlorate

MRM of 3 channels, ES-

101 > 85

3.442e+004

Perchlorate

10701.930

1.07e4

bb

0.910 ng/mL

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

Perchlorate-O(18)

MRM of 3 channels, ES-

107 > 89

4.591e+004

Perchlorate-O(18)

1795.8...

1101.0...

4278.6...

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248520001	Perchlorate	99 > 83	2.17	33101.090	33101.090	bb			0.9292	✓	1795.8...	1101.0...	3.09
248520001	Perchlorate-101	101 > 85	2.15	✓ 10701.930	10701.930	bb			0.9096	✓	95.92	-4.08	4278.6...
248520001	Perchlorate-O(18)	107 > 89	2.14	14024.294	14024.294	bb			0.4796	✓	95.92	-4.08	4278.6...

33101.090 | 100 | 100 = 11.1 ✓  
33101.090 | 93.6

107 > 89  
312/100

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 963901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8279

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520002

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 92.9

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	2.69	10.8	27.0	ug/kg		5	21-MAR-10 15:47	per0321012a
	Perchlorate Isotope Ratio			3.04			5	21-MAR-10 15:47	per0321012a
14797-73-0	Perchlorate-101	2.69	10.8	26.0	ug/kg		5	21-MAR-10 15:47	per0321012a
	Perchlorate-O(18)			24.4	ug/kg		5	21-MAR-10 15:47	per0321012a

<sup>^</sup> 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 %Solids  
Aliquot



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

Dataset: C:\MassLynx\Perchlorate.PRO\per032110a.qld

Last Altered: Monday, March 22, 2010 8:36:52 AM Eastern Standard Time  
Printed: Monday, March 22, 2010 8:44:57 AM Eastern Standard Time

Name: per0321012a

Date: 21-Mar-2010

Time: 15:47:41

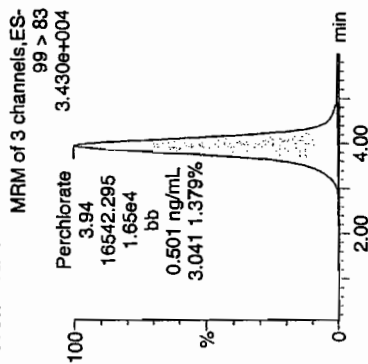
ID: 248520002

Vial: 1:3,A

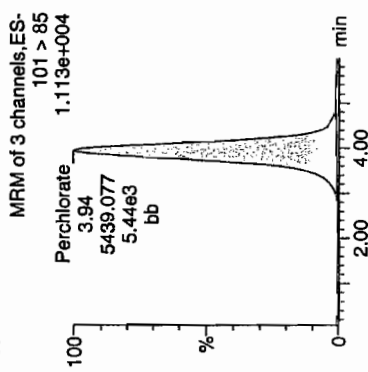
16542.295 | 963402 | 5000 | 5100

03-22-10

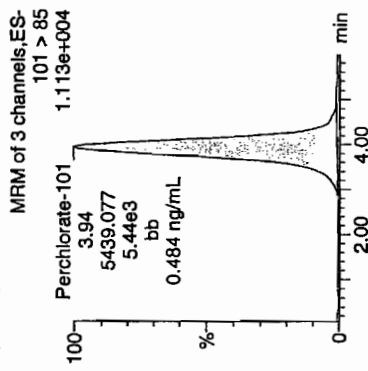
### Perchlorate



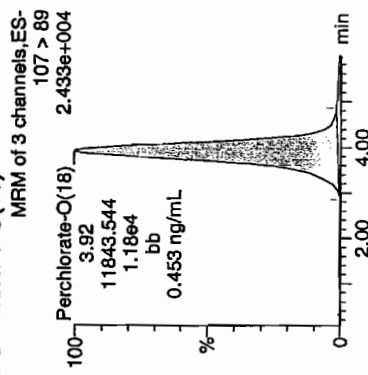
### Perchlorate



### Perchlorate-101



### Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248520002	Perchlorate	99 > 83	3.94	16542.295	16542.295	bb			0.5012	2573.6...	3.04		
248520002	Perchlorate-101	101 > 85	3.94	5439.077	5439.077	bb			0.4839	971.078			
248520002	Perchlorate-O(18)	107 > 89	3.92	11843.544	11843.544	bb			0.4534	90.69	-9.31	494.851	

2.51  
XS  
2.42

16542.295  
33003.2 ~ 0.5012

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC  
 Lab Code: GEL  
 Instrument: LCMSMS  
 Method: SW846 6850 Modified  
 Matrix: SOIL  
 Extraction Batch ID: 963901  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE36-10-8277  
 Date Received: 03-MAR-10  
 GEL Job No (SDG): 10-2200  
 GEL Sample ID: 248520003  
 Date Filtered: 12-MAR-10  
 Injection Volume (uL): 20  
 %Solids: 75

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.67	2.68	0.670	ug/kg	U	1	21-MAR-10 06:06	per0320113a
	Perchlorate Isotope Ratio						1	21-MAR-10 06:06	per0320113a
14797-73-0	Perchlorate-101	.67	2.68	0.670	ug/kg	U	1	21-MAR-10 06:06	per0320113a
	Perchlorate-O(18)			6.09	ug/kg		1	21-MAR-10 06:06	per0320113a

<sup>^</sup> 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  $\frac{1}{\% \text{Solids}}$

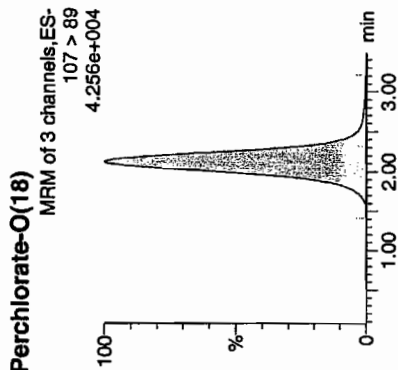
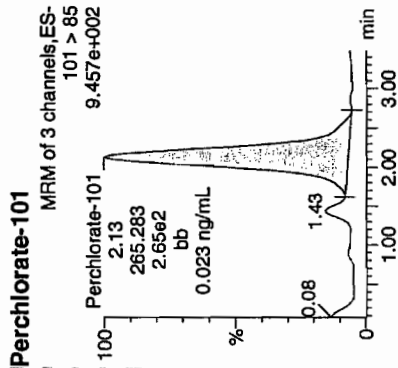
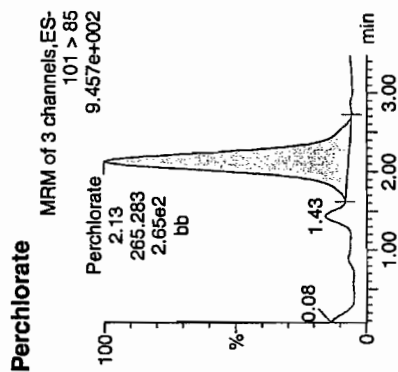
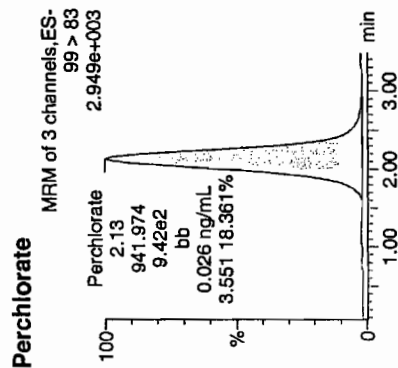
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320113a  
Date: 21-Mar-2010  
Time: 06:06:16  
ID: 248520003  
Vial: 2:7,D

LGW 963402 / 5070 / 11  
03-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248520003	Perchlorate	99 > 83	2.13	941.974	941.974	bb			0.0264			393.924	3.55
248520003	Perchlorate-101	101 > 85	2.13	265.283	265.283	bb			0.0225			90.475	
248520003	Perchlorate-O(18)	107 > 89	2.13	13277.286	13277.286	bb			0.4541	90.81	-9.19	1591.2...	

WAT  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 263901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8280

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520004

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 90.5

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	2.21	8.84	21.6	ug/kg		4	21-MAR-10 15:56	per0321013a
	Perchlorate Isotope Ratio			2.95			4	21-MAR-10 15:56	per0321013a
14797-73-0	Perchlorate-101	2.21	8.84	21.5	ug/kg		4	21-MAR-10 15:56	per0321013a
	Perchlorate-O(18)			22.4	ug/kg		4	21-MAR-10 15:56	per0321013a

<sup>^</sup> 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  $\frac{1}{\% \text{Solids}}$

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032110a.qld

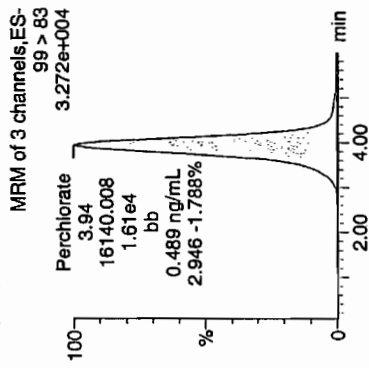
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Printed: Monday, March 22, 2010 8:44:57 AM Eastern Standard Time

Name: per0321013a  
Date: 21-Mar-2010  
Time: 15:56:44  
ID: 248520004  
Vial: 1:3,B

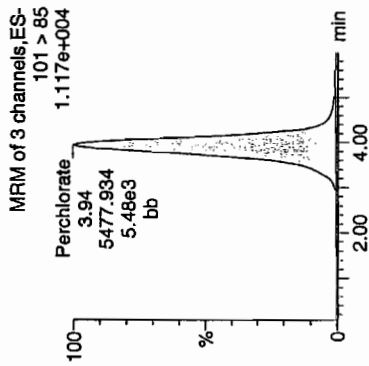
16140.008 | 16140.008 | 3070 | 4 | 00

03-22-10

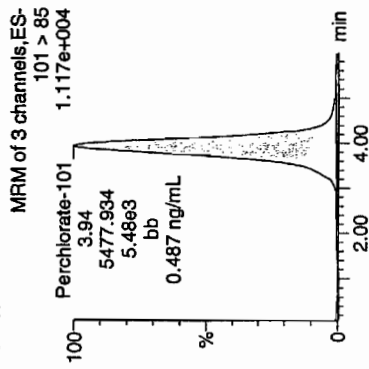
### Perchlorate



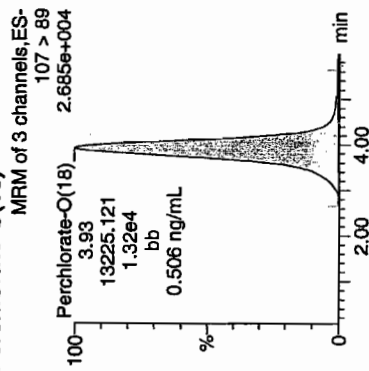
### Perchlorate



### Perchlorate-101



### Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248520004	Perchlorate	99 > 83	3.94	16140.008	16140.008	bb			0.4890	100.00	1660.4...	2.95	
248520004	Perchlorate-101	101 > 85	3.94	5477.934	5477.934	bb			0.4873	100.00	824.012		
248520004	Perchlorate-O(18)	107 > 89	3.93	13225.121	13225.121	bb			0.5063	101.27	1.27 2105.3...		

1.96  
x 4  
= 1.95  
1477  
3/22/10

16140.008  
33003.2

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 963901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8278

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520005

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 93.6

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.534	2.14	0.534	ug/kg	U	1	21-MAR-10 16:06	per0321014a
	Perchlorate Isotope Ratio						1	21-MAR-10 16:06	per0321014a
14797-73-0	Perchlorate-101	.534	2.14	0.534	ug/kg	U	1	21-MAR-10 16:06	per0321014a
	Perchlorate-O(18)			5.28	ug/kg		1	21-MAR-10 16:06	per0321014a

<sup>^</sup> 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 %Solids  
Aliquot

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032110a.qld

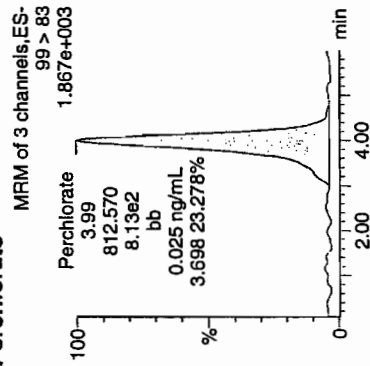
Last Altered: Monday, March 22, 2010 8:36:52 AM Eastern Standard Time  
Printed: Monday, March 22, 2010 8:44:57 AM Eastern Standard Time

Name: per0321014a  
Date: 21-Mar-2010  
Time: 16:06:01  
ID: 248520005  
Vial: 1:3,C

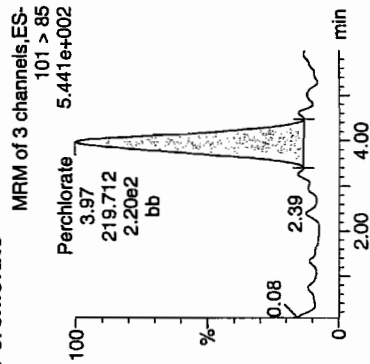
03-22-10

16322 | 963902 | 3000 | 11 NA

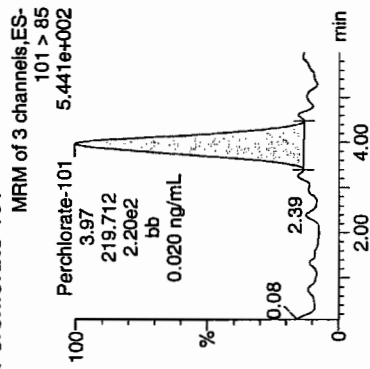
### Perchlorate



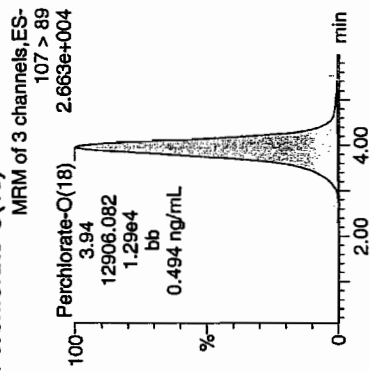
### Perchlorate



### Perchlorate-101



### Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248520005	Perchlorate	99 > 83	3.99	812.570	812.570	bb			0.0246			15.977	3.70
248520005	Perchlorate-101	101 > 85	3.97	219.712	219.712	bb			0.0195			29.097	
248520005	Perchlorate-O(18)	107 > 89	3.94	12906.082	12906.082	bb			0.4941	98.83	-1.17	1123.5...	

4477  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 963901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8274

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520006

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 90

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.557	2.23	0.926	ug/kg	J	1	21-MAR-10 06:26	per0320116a
	Perchlorate Isotope Ratio			3.03			1	21-MAR-10 06:26	per0320116a
14797-73-0	Perchlorate-101	.557	2.23	0.924	ug/kg	J	1	21-MAR-10 06:26	per0320116a
	Perchlorate-O(18)			5.14	ug/kg		1	21-MAR-10 06:26	per0320116a

<sup>^</sup> 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  $\frac{1}{\% \text{Solids}}$



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

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320116a

Date: 21-Mar-2010

Time: 06:26:07

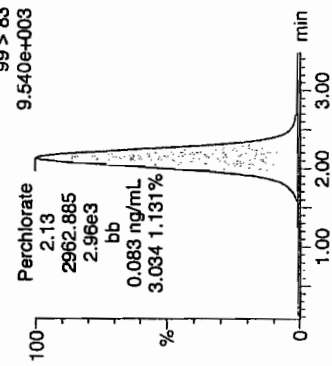
ID: 248520006

Vial: 2:8,A

LAJL 963902 | 5025 | 11

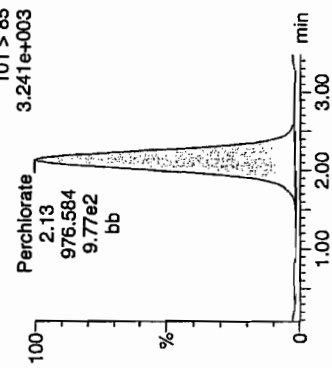
032113

**Perchlorate**  
MRM of 3 channels, ES-  
99 > 83



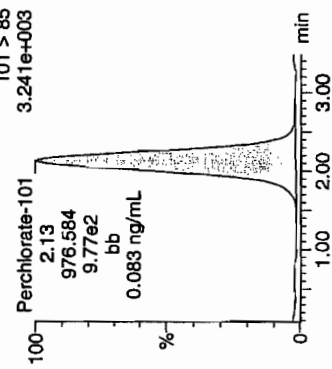
**Perchlorate**

MRM of 3 channels, ES-  
101 > 85



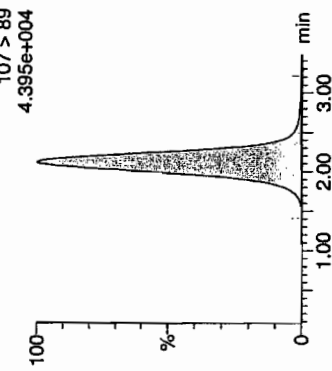
**Perchlorate-101**

MRM of 3 channels, ES-  
101 > 85



**Perchlorate-O(18)**

MRM of 3 channels, ES-  
107 > 89



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248520006	Perchlorate	99 > 83	2.13	2962.885	2962.885	bb			0.0832	✓		536.583	3.03
248520006	Perchlorate-101	101 > 85	2.13	✓ 976.584	976.584	bb			0.0830	✓		532.941	
248520006	Perchlorate-O(18)	107 > 89	2.12	13506.619	13506.619	bb			0.4619	✓	92.38	-7.62	2518.8...

2962.885  
35624.7

1477  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC  
 Lab Code: GEL  
 Instrument: LCMSMS  
 Method: SW846 6850 Modified  
 Matrix: SOIL  
 Extraction Batch ID: 263901  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE36-10-8291  
 Date Received: 03-MAR-10  
 GEL Job No (SDG): 10-2200  
 GEL Sample ID: 248520007  
 Date Filtered: 12-MAR-10  
 Injection Volume (uL): 20  
 %Solids: 71

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.704	2.81	1.16	ug/kg	J	1	21-MAR-10 06:32	per0320117a
	Perchlorate Isotope Ratio			2.81			1	21-MAR-10 06:32	per0320117a
14797-73-0	Perchlorate-101	.704	2.81	1.25	ug/kg	J	1	21-MAR-10 06:32	per0320117a
	Perchlorate-O(18)			6.69	ug/kg		1	21-MAR-10 06:32	per0320117a

<sup>^</sup> 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  $\frac{1}{\% \text{Solids}}$

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320117a

Date: 21-Mar-2010

Time: 06:32:42

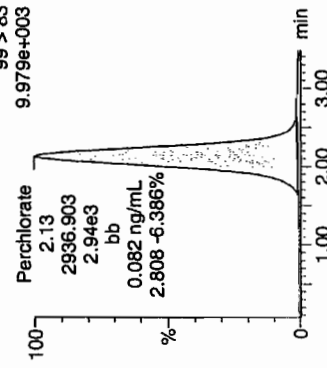
ID: 248520007

Vial: 2:8,B

33.21-10

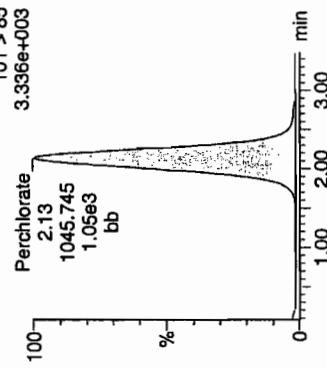
1045.745 | 3020 | 11

Perchlorate MRM of 3 channels, ES-  
99 > 83



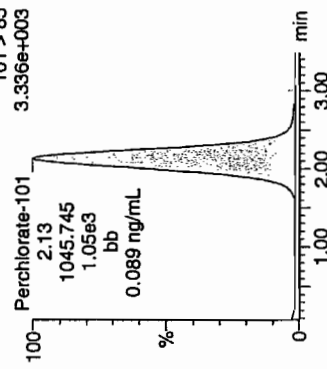
Perchlorate

MRM of 3 channels, ES-  
101 > 85



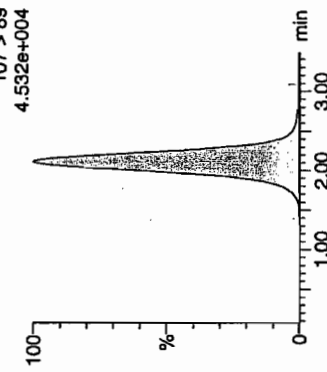
Perchlorate-101

MRM of 3 channels, ES-  
101 > 85



Perchlorate-O(18)

MRM of 3 channels, ES-  
107 > 89



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248520007	Perchlorate	99 > 83	2.13	2936.903	2936.903	bb			0.0824			113.936	2.81
248520007	Perchlorate-101	101 > 85	2.13	1045.745	1045.745	bb			0.0889			333.048	
248520007	Perchlorate-O(18)	107 > 89	2.12	13905.063	13905.063	bb			0.4755	95.11	-4.89	2961.9...	

$$\frac{2936.903}{1045.745} = 2.8034$$

Math  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 263901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8287

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520008

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 67

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.746	2.98	7.15	ug/kg		1	21-MAR-10 06:39	per0320118a
	Perchlorate Isotope Ratio			2.99			1	21-MAR-10 06:39	per0320118a
14797-73-0	Perchlorate-101	.746	2.98	7.26	ug/kg		1	21-MAR-10 06:39	per0320118a
	Perchlorate-O(18)			6.99	ug/kg		1	21-MAR-10 06:39	per0320118a

<sup>^</sup> 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 %Solids  
Aliquot

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

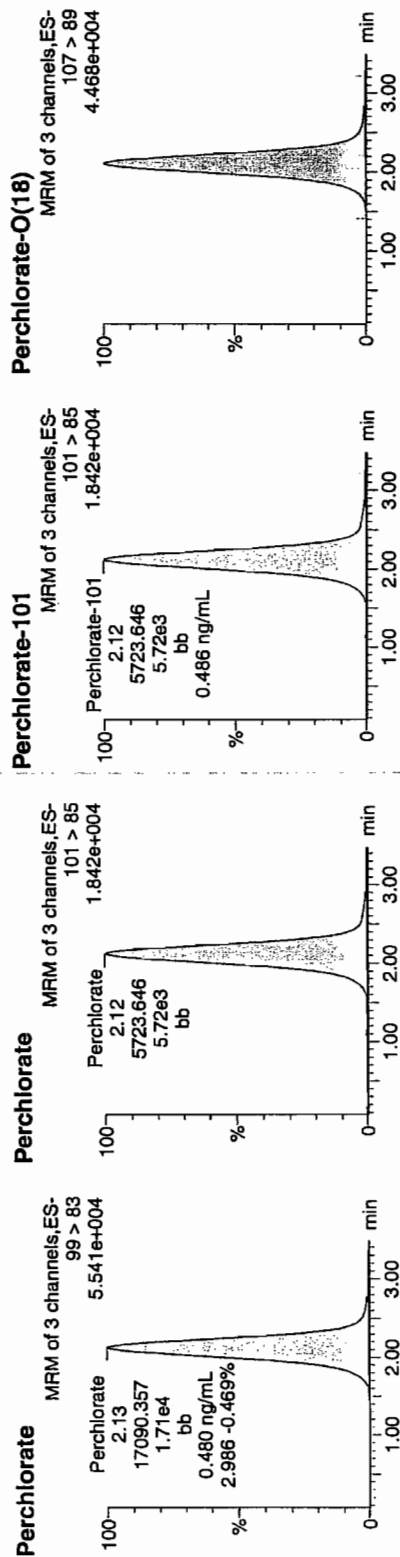
Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320118a  
Date: 21-Mar-2010  
Time: 06:39:16  
ID: 248520008  
Vial: 2:8,C

03-21-10

LA-10L | 963102 | 5070 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248520008	Perchlorate	99 > 83	2.13	17090.357	17090.357	bb			0.4797	-	-	2164.3...	2.99
248520008	Perchlorate-101	101 > 85	2.12	5723.646	5723.646	bb			0.4865	93.73	-	1913.3...	
248520008	Perchlorate-O(18)	107 > 89	2.10	13703.729	13703.729	bb			0.4687	-	-	2376.0...	

107  
3/22/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 963901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8273

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520009

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 71

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.705	2.82	0.991	ug/kg	J	1	21-MAR-10 06:45	per0320119a
	Perchlorate Isotope Ratio			3.4			1	21-MAR-10 06:45	per0320119a
14797-73-0	Perchlorate-101	.705	2.82	0.882	ug/kg	J	1	21-MAR-10 06:45	per0320119a
	Perchlorate-O(18)			6.53	ug/kg		1	21-MAR-10 06:45	per0320119a

<sup>^</sup> 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 =

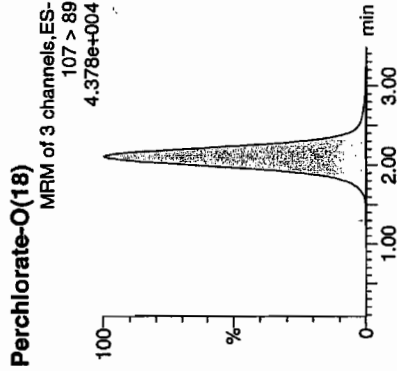
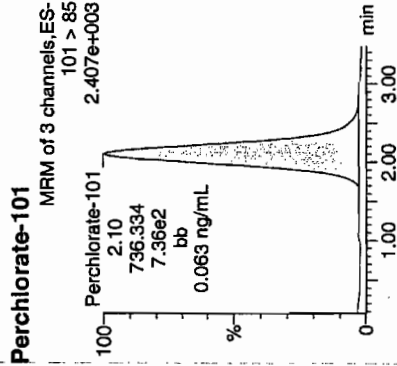
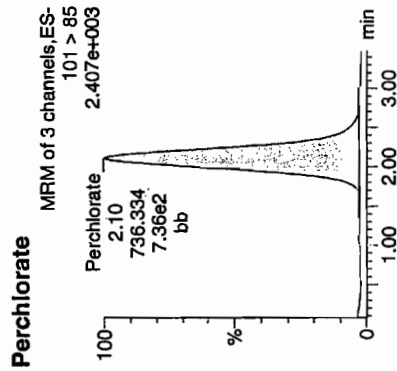
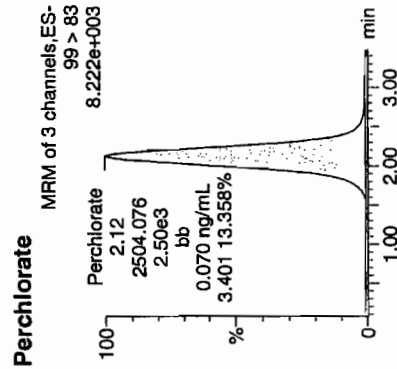
Instrument Value X Concentrated Extract Volume X 1 %Solids  
Aliquot

**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson  
Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320119a  
Date: 21-Mar-2010  
Time: 06:45:50  
ID: 248520009  
Vial: 2:8,D

1963902 | 3030 | 11  
23-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248520009	Perchlorate	99 > 83	2.12	2504.076	2504.076	bb			0.0703			1689.9...	3.40
248520009	Perchlorate-101	101 > 85	2.10	736.334	736.334	bb			0.0626			61.759	
248520009	Perchlorate-O(18)	107 > 89	2.10	13553.838	13553.838	bb			0.4635	92.71	-7.29	434.763	

1407  
3/21/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC  
 Lab Code: GEL  
 Instrument: LCMSMS  
 Method: SW846 6850 Modified  
 Matrix: SOIL  
 Extraction Batch ID: 263901  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE36-10-8275  
 Date Received: 03-MAR-10  
 GEL Job No (SDG): 10-2200  
 GEL Sample ID: 248520010  
 Date Filtered: 12-MAR-10  
 Injection Volume (uL): 20  
 %Solids: 60

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.835	3.34	0.835	ug/kg	U	1	21-MAR-10 06:52	per0320120a
	Perchlorate Isotope Ratio						1	21-MAR-10 06:52	per0320120a
14797-73-0	Perchlorate-101	.835	3.34	0.835	ug/kg	U	1	21-MAR-10 06:52	per0320120a
	Perchlorate-O(18)			7.73	ug/kg		1	21-MAR-10 06:52	per0320120a

<sup>^</sup> 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



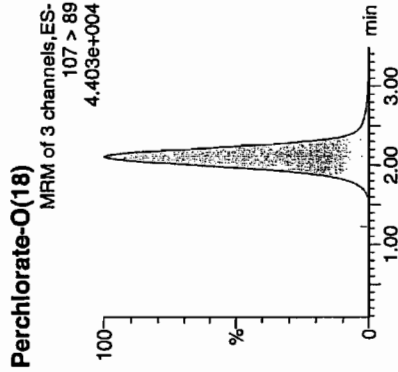
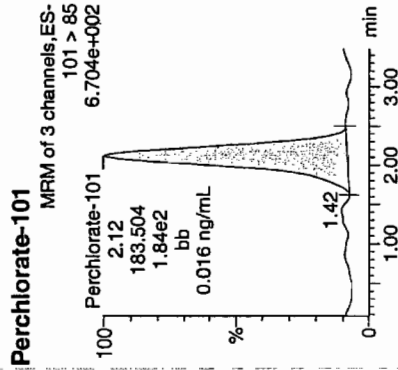
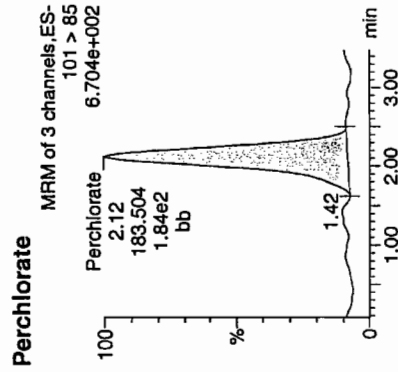
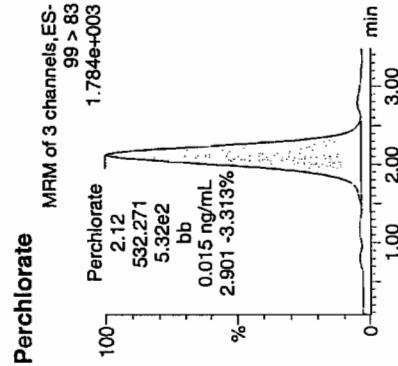
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson  
Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320120a  
Date: 21-Mar-2010  
Time: 06:52:24  
ID: 248520010  
Vial: 2:8,E

663  
03-21-10

1522 | 963922 | 3020 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion.Ratio
248520010	Perchlorate	99 > 83	2.12	532.271	532.271	bb			0.0149			334.239	2.90
248520010	Perchlorate-101	101 > 85	2.12	183.504	183.504	bb			0.0156			95.984	
248520010	Perchlorate-O(18)	107 > 89	2.10	13535.871	13535.871	bb			0.4629	92.58	-7.42	9188.4...	

muti  
3/22/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 963901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8276

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 248520011

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 85

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.586	2.34	0.642	ug/kg	J	1	21-MAR-10 06:58	per0320121a
	Perchlorate Isotope Ratio			2.92			1	21-MAR-10 06:58	per0320121a
14797-73-0	Perchlorate-101	.586	2.34	0.667	ug/kg	J	1	21-MAR-10 06:58	per0320121a
	Perchlorate-O(18)			5.37	ug/kg		1	21-MAR-10 06:58	per0320121a

<sup>^</sup> 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 %Solids  
Aliquot

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

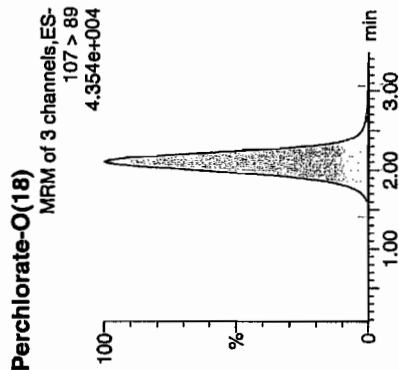
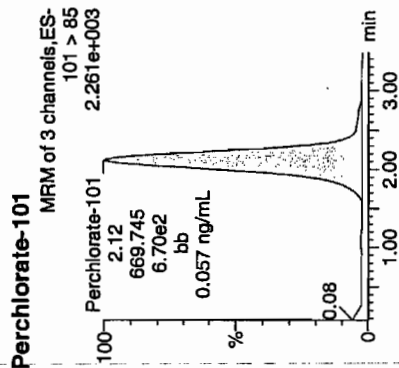
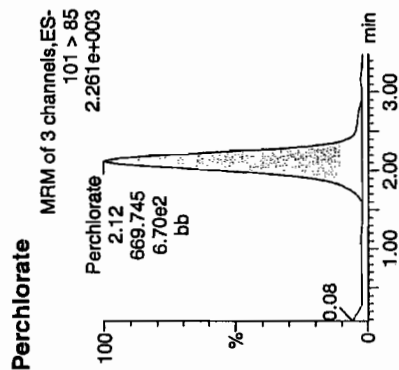
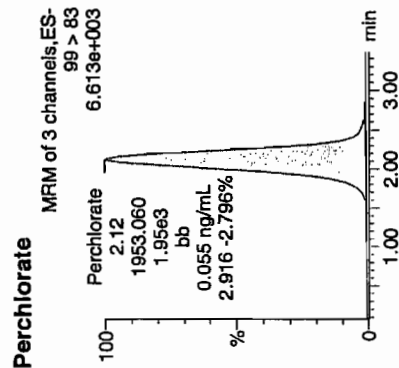
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Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320121a  
Date: 21-Mar-2010  
Time: 06:58:57  
ID: 248520011  
Vial: 2:8,F

33-21-10

1662-963102/3020/11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248520011	Perchlorate	99 > 83	2.12	1953.060	1953.060	bb			0.0548			388.432	2.92
248520011	Perchlorate-101	101 > 85	2.12	669.745	669.745	bb			0.0569			649.949	
248520011	Perchlorate-O(18)	107 > 89	2.10	13407.807	13407.807	bb			0.4585	✓ 91.71	-8.29	7305.7...	

mtt  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

# STANDARDS DATA

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-2200

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 20-MAR-10

HPLC 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

Parname Perchlorate

Coefficient of Determination:

Calibration Curve: 35624.74

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-2200

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 20-MAR-10

HPLC 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

Paramname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 11765.52

Response Type: External Standard

Curve Type: RF

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per032010a.mdb 21 Mar 2010 08:28:58  
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per032010a.cdb 21 Mar 2010 08:29:17

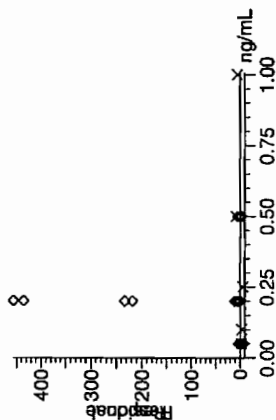
Compound name: Perchlorate

Response Factor: 35624.7 ✓

RRF SD: 2146.6, % Relative SD: 6.02559 ✓

Response type: External Std, Area

Curve type: RF



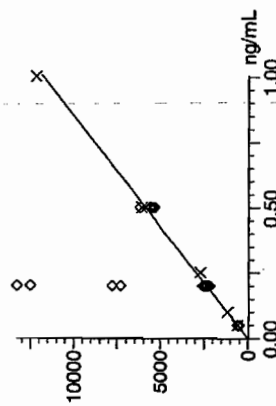
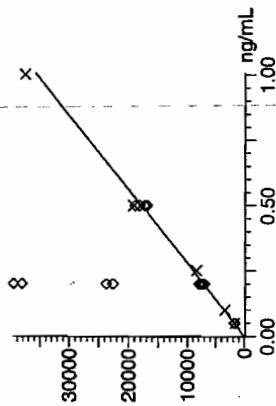
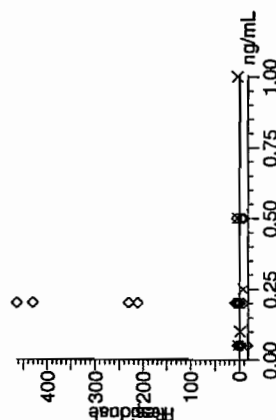
Compound name: Perchlorate-101

Response Factor: 11765.5 ✓

RRF SD: 579.945, % Relative SD: 4.92919 ✓

Response type: External Std, Area

Curve type: RF



03-21-10

3/22/10

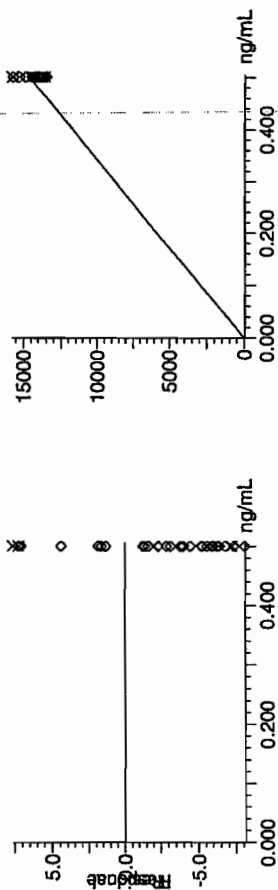
GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Compound name: Perchlorate-O<sup>-</sup>(18) /  
Response Factor: 29240.8  
R<sup>2</sup> SD: 2054.99, % Relative SD: 7.02783 ✓  
Response type: External Std, Area  
Curve type: RF



GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification



Perchlorate Initial Calibration

PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

GEL Job No.(SDG): 10-2200

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 21-MAR-10

HPLC 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

Paramname Perchlorate

Coefficient of Determination:

Calibration Curve: 33003.18

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-2200

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 21-MAR-10

HPLC 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

Parname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 11241.06

Response Type: External Standard

Curve Type: RF

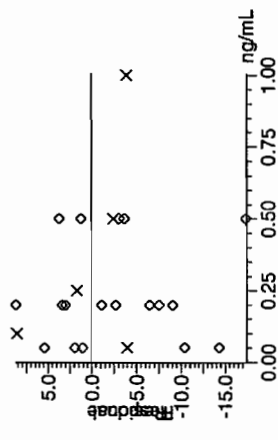
Quantify Calibration Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032110a.qld

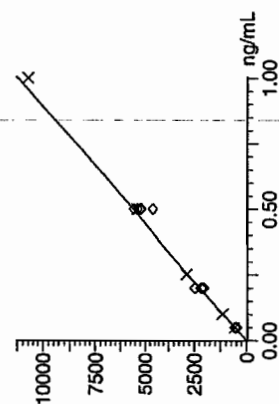
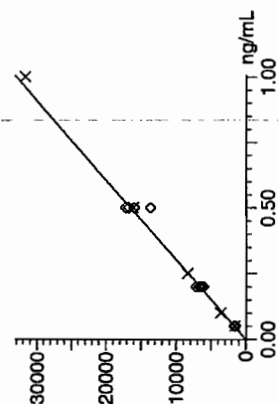
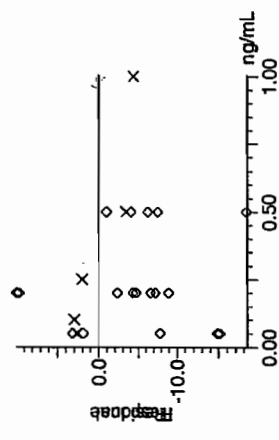
Last Altered: Monday, March 22, 2010 8:36:52 AM Eastern Standard Time  
Printed: Monday, March 22, 2010 8:44:57 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per032110a.mdb 22 Mar 2010 07:45:14  
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per032110a.cdb 22 Mar 2010 08:36:51

Compound name: Perchlorate ✓  
Response Factor: 33003.2 ✓  
RRF SD: 1758.78, % Relative SD: 5.32913  
Response type: External Std, Area  
Curve type: RF ✓



Compound name: Perchlorate-101 ✓  
Response Factor: 11241 ✓  
RRF SD: 401.324, % Relative SD: 3.57017 ✓  
Response type: External Std, Area  
Curve type: RF ✓



3/22/10

3/22/10

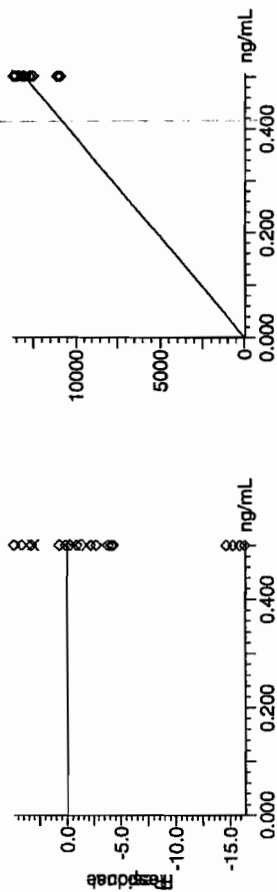
GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Quantify Calibration Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032110a.qld

Last Altered: Monday, March 22, 2010 8:36:52 AM Eastern Standard Time  
Printed: Monday, March 22, 2010 8:44:57 AM Eastern Standard Time

Compound name: Perchlorate-O(18) ✓  
Response Factor: 26118.8  
RHF SD: 490.117, % Relative SD: 1.8765 ✓  
Response type: External Std, Area  
Curve type: RIF ✓



GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

**Perchlorate Initial Calibration Verification**

**GEL Job No.(SDG):** 10-2200

**Lab Name:** General Engineering Laboratories

**Lab Code:** GEL

**Reporting Units:** ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.53	106.04	20-MAR-10 18:40	per0320009a
Perchlorate Isotope Ratio		3.05		20-MAR-10 18:40	per0320009a
Perchlorate-101	.5	.53	105.34	20-MAR-10 18:40	per0320009a
Perchlorate	.5	.51	101.26	21-MAR-10 15:20	per0321009a
Perchlorate Isotope Ratio		3.1		21-MAR-10 15:20	per0321009a
Perchlorate-101	.5	.48	95.96	21-MAR-10 15:20	per0321009a

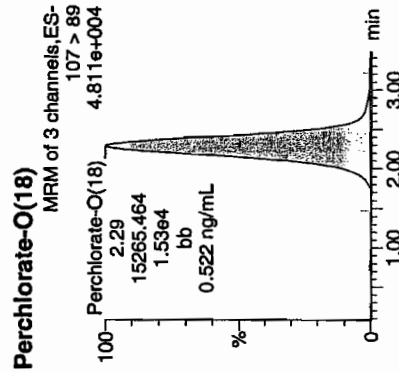
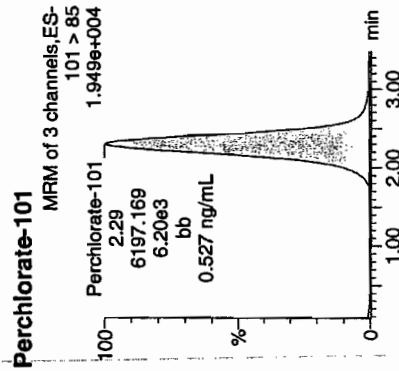
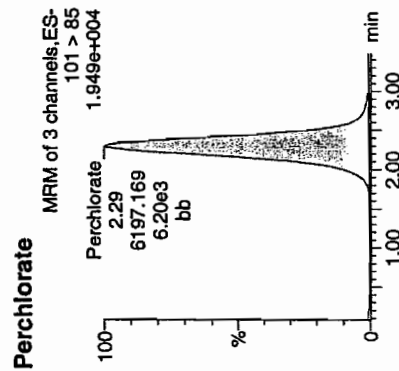
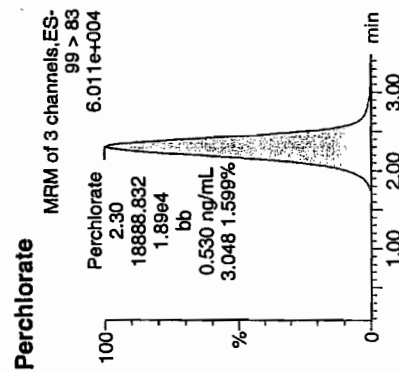
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\P perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320009a  
Date: 20-Mar-2010  
Time: 18:40:30  
ID: WCL100318-06ICV  
Vial: 1:2,A

Per  
and  
03-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06ICV	Perchlorate	99 > 83	2.30	18888.832	18888.832	bb			0.5302	106.04	6.04	5653.3...	3.05
WCL100318-06ICV	Perchlorate-101	101 > 85	2.29	6197.169	6197.169	bb			0.5267	105.34	5.34	3908.5...	
WCL100318-06ICV	Perchlorate-O(18)	107 > 89	2.29	15265.464	15265.464	bb			0.5221	104.41	4.41	2163.5...	

$$\frac{18888.832}{3524.7} = 0.5302$$

MAF  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

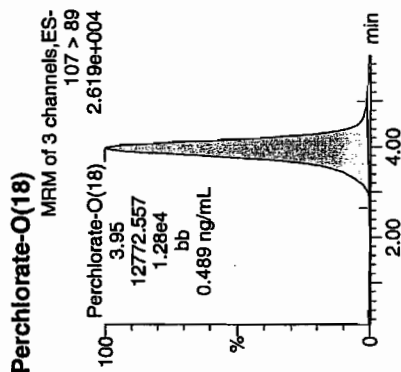
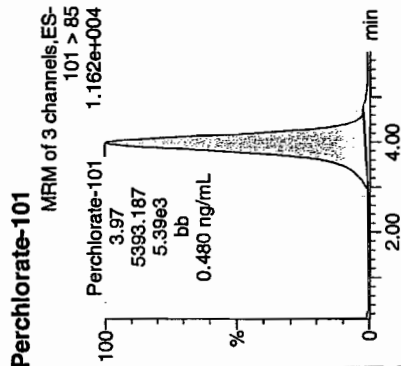
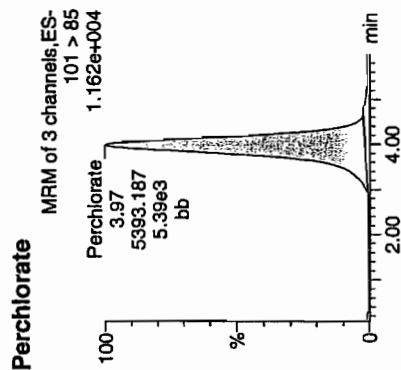
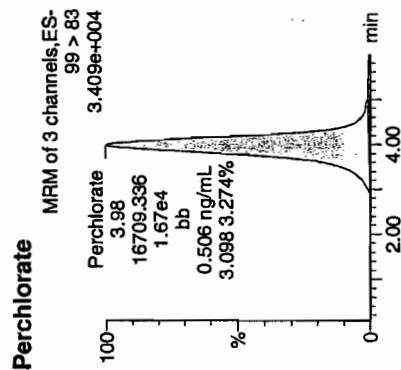
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032110a.qld

Last Altered: Monday, March 22, 2010 8:36:52 AM Eastern Standard Time  
Printed: Monday, March 22, 2010 8:44:57 AM Eastern Standard Time

Name: per0321009a  
Date: 21-Mar-2010  
Time: 15:20:30  
ID: WCL100318-06ICV  
Vial: 1:2,A

Pure  
03-22-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100318-06ICV	Perchlorate	99 > 83	3.98	16709.336	16709.336	bb			0.5063	101.26	1.26	1591.7...	3.10
WCL100318-06ICV	Perchlorate-101	101 > 85	3.97	5393.187	5393.187	bb			0.4798	95.96	-4.04	3512.9...	
WCL100318-06ICV	Perchlorate-O(18)	107 > 89	3.95	12772.557	12772.557	bb			0.4890	97.80	-2.20	574.219	

16709.336  
3303.2 = 0.5063

100%  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Perchlorate Continuing Calibration Verification

GEL Job No.(SDG): 10-2200

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.51	101.69	20-MAR-10 20:05	per0320022a
Perchlorate Isotope Ratio		3.2		20-MAR-10 20:05	per0320022a
Perchlorate-101	.5	.48	96.29	20-MAR-10 20:05	per0320022a
Perchlorate	.5	.48	95.26	20-MAR-10 21:30	per0320035a
Perchlorate Isotope Ratio		3.07		20-MAR-10 21:30	per0320035a
Perchlorate-101	.5	.47	94.02	20-MAR-10 21:30	per0320035a
Perchlorate	.5	.47	94.63	20-MAR-10 22:56	per0320048a
Perchlorate Isotope Ratio		3.05		20-MAR-10 22:56	per0320048a
Perchlorate-101	.5	.47	93.86	20-MAR-10 22:56	per0320048a
Perchlorate	.5	.48	95.24	21-MAR-10 00:02	per0320058a
Perchlorate Isotope Ratio		3.13		21-MAR-10 00:02	per0320058a
Perchlorate-101	.5	.46	92.13	21-MAR-10 00:02	per0320058a
Perchlorate	.5	.49	97.11	21-MAR-10 01:28	per0320071a



Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2200

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate Isotope Ratio		3.12		21-MAR-10 01:28	per0320071a
Perchlorate-101	.5	.47	94.11	21-MAR-10 01:28	per0320071a
Perchlorate	.5	.49	97.41	21-MAR-10 02:54	per0320084a
Perchlorate Isotope Ratio		3.11		21-MAR-10 02:54	per0320084a
Perchlorate-101	.5	.47	94.9	21-MAR-10 02:54	per0320084a
Perchlorate	.5	.48	96.13	21-MAR-10 04:20	per0320097a
Perchlorate Isotope Ratio		3.23		21-MAR-10 04:20	per0320097a
Perchlorate-101	.5	.45	90.19	21-MAR-10 04:20	per0320097a
Perchlorate	.5	.48	95.46	21-MAR-10 05:46	per0320110a
Perchlorate Isotope Ratio		3.16		21-MAR-10 05:46	per0320110a
Perchlorate-101	.5	.46	91.36	21-MAR-10 05:46	per0320110a
Perchlorate	.5	.49	97.75	21-MAR-10 07:05	per0320122a
Perchlorate Isotope Ratio		3.11		21-MAR-10 07:05	per0320122a

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2200

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate-101	.5	.48	95.09	21-MAR-10 07:05	per0320122a
Perchlorate	.5	.48	96.32	21-MAR-10 17:18	per0321022a
Perchlorate Isotope Ratio		3.06		21-MAR-10 17:18	per0321022a
Perchlorate-101	.5	.46	92.41	21-MAR-10 17:18	per0321022a

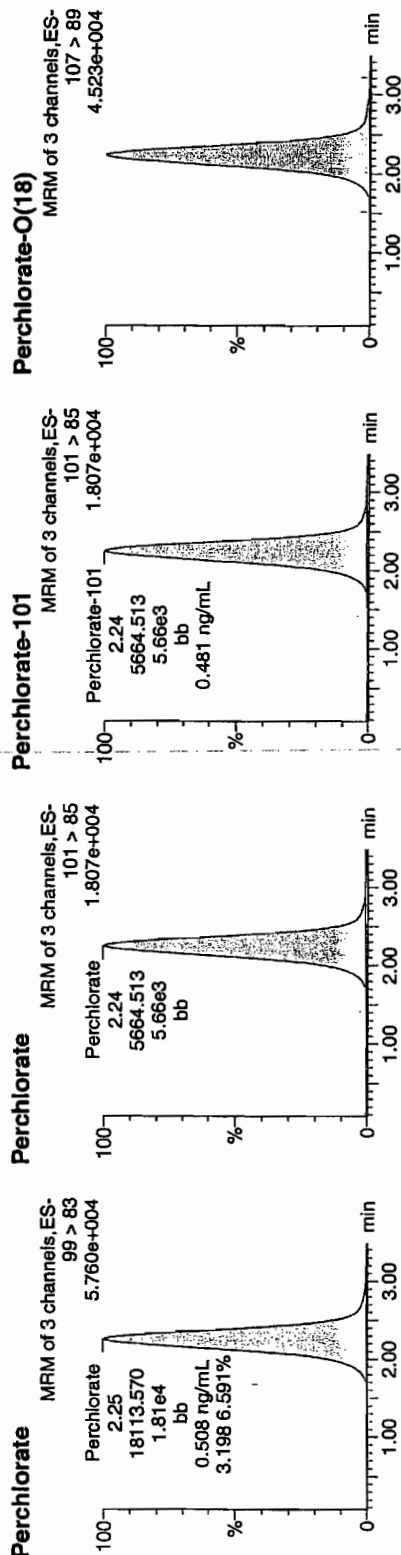
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320022a  
Date: 20-Mar-2010  
Time: 20:05:48  
ID: WCL100318-06CCV  
Vial: 1:2,A

*Per  
20-2-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	2.25	18113.570	18113.570	bb			0.5085	101.69	1.69	1915.1...	3.20
WCL100318-06CCV	Perchlorate-101	101 > 85	2.24	5664.513	5664.513	bb			0.4815	98.29	-3.71	2819.1...	
WCL100318-06CCV	Perchlorate-Q(18)	107 > 89	2.23	14437.536	14437.536	bb			0.4937	98.75	-1.25	2256.6...	

*100%  
3/22/10*

**Quantify Sample Report** MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320035a

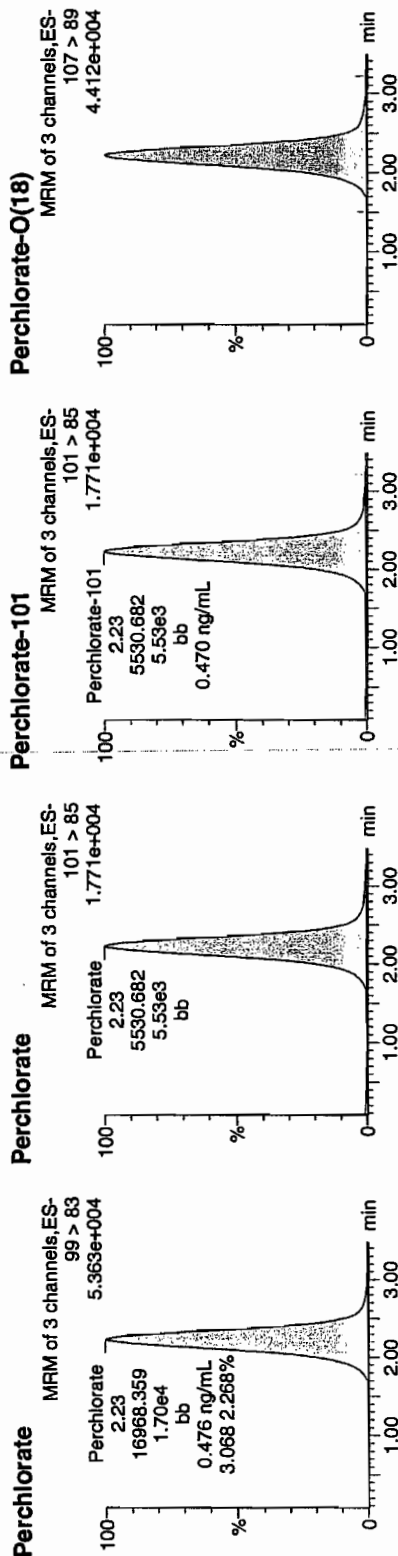
Date: 20-Mar-2010

Time: 21:30:59

ID: WCL100318-06CCV

Vial: 1:2,A

*Perchlorate*  
*03-21-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion.Ratio
WCL100318-06CCV	Perchlorate	99 > 83	2.23	16968.359	16968.359	bb			0.4763	95.26	-4.74	963.693	3.07
WCL100318-06CCV	Perchlorate-101	101 > 85	2.23	5530.682	5530.682	bb			0.4701	94.02	-5.98	3381.7...	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	2.22	13865.430	13865.430	bb			0.4742	94.84	-5.16	1627.2...	

*107 > 89*  
*3/22/10*

Quantify Sample Report MassLynx 4.0 SP4

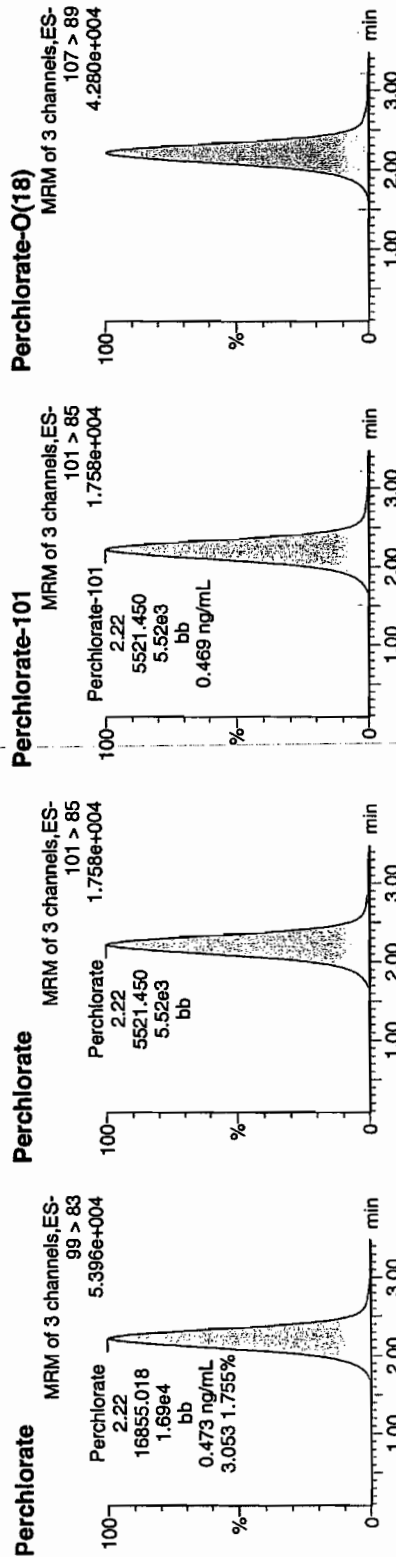
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320048a  
Date: 20-Mar-2010  
Time: 22:56:33  
ID: WCL100318-06CCV  
Vial: 1:2,A

*Pass and*  
*03-21-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	2.22	16855.018	16855.018	bb			0.4731	94.63	-5.37	7742.0...	3.05
WCL100318-06CCV	Perchlorate-101	101 > 85	2.22	5521.450	5521.450	bb			0.4693	93.86	-6.14	3025.0...	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	2.20	13439.318	13439.318	bb			0.4596	91.92	-8.08	4958.2...	

*not*  
*3/22/10*

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

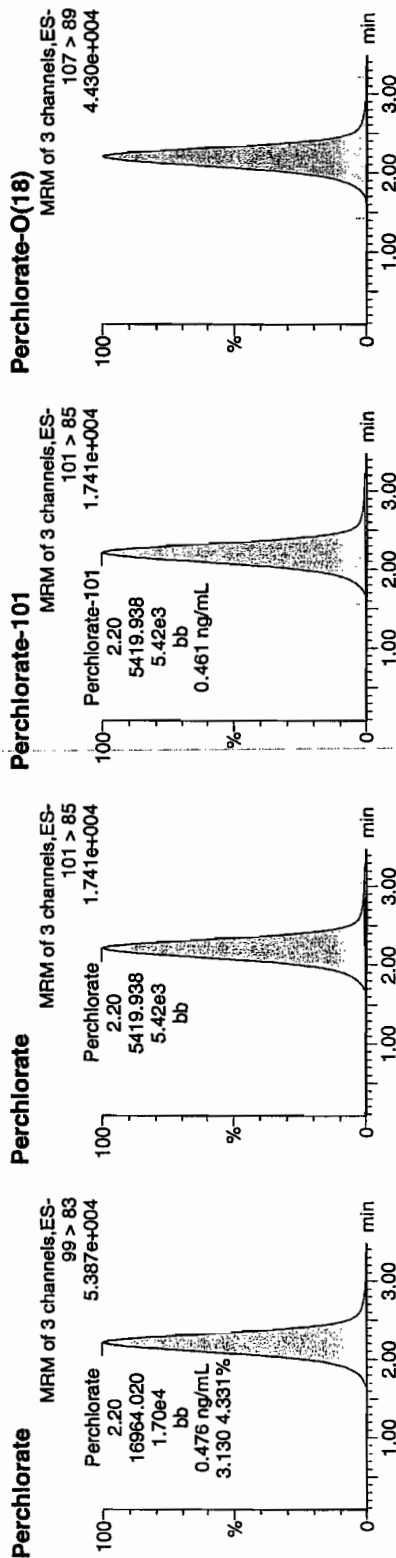
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320058a  
Date: 21-Mar-2010  
Time: 00:02:17  
ID: WCL100318-06CCV  
Vial: 1:2,A

*Perchlorate*  
*03-21-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	2.20	16964.020	16964.020	bb			0.4762	95.24	-4.76	4518.7...	3.13
WCL100318-06CCV	Perchlorate-101	101 > 85	2.20	5419.938	5419.938	bb			0.4607	92.13	-7.87	511.340	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	2.19	13704.134	13704.134	bb			0.4687	93.73	-6.27	5195.2...	

*3/22/10*

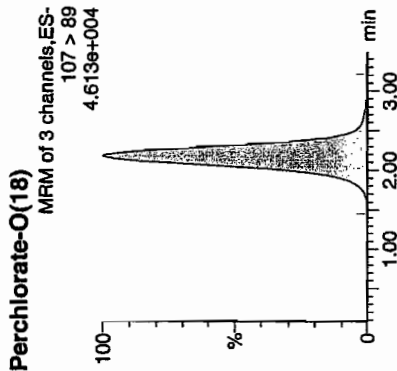
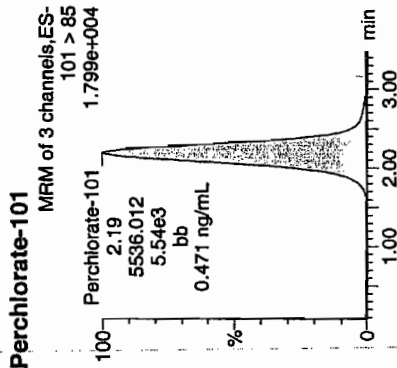
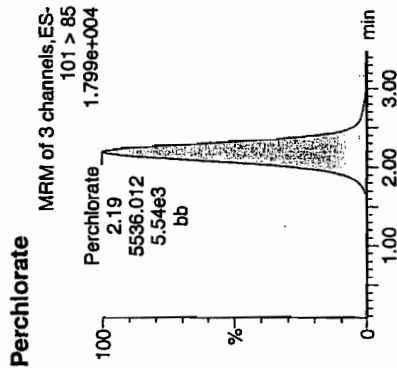
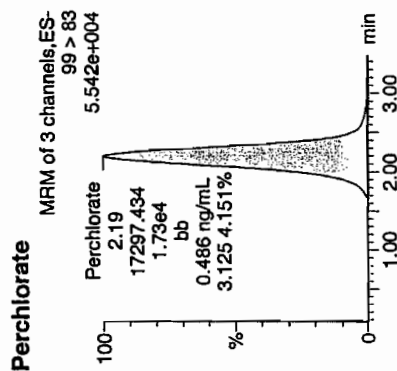
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320071a  
Date: 21-Mar-2010  
Time: 01:28:19  
ID: WCL100318-06CCV  
Vial: 1:2,A

Perchlorate  
0.486  
3.125



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	2.19	17297.434	17297.434	bb			0.4855	97.11	-2.89	3585.3...	3.12
WCL100318-06CCV	Perchlorate-101	101 > 85	2.19	5536.012	5536.012	bb			0.4705	94.11	-5.89	331.957	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	2.18	14200.274	14200.274	bb			0.4856	97.13	-2.87	19871....	

3/22/10

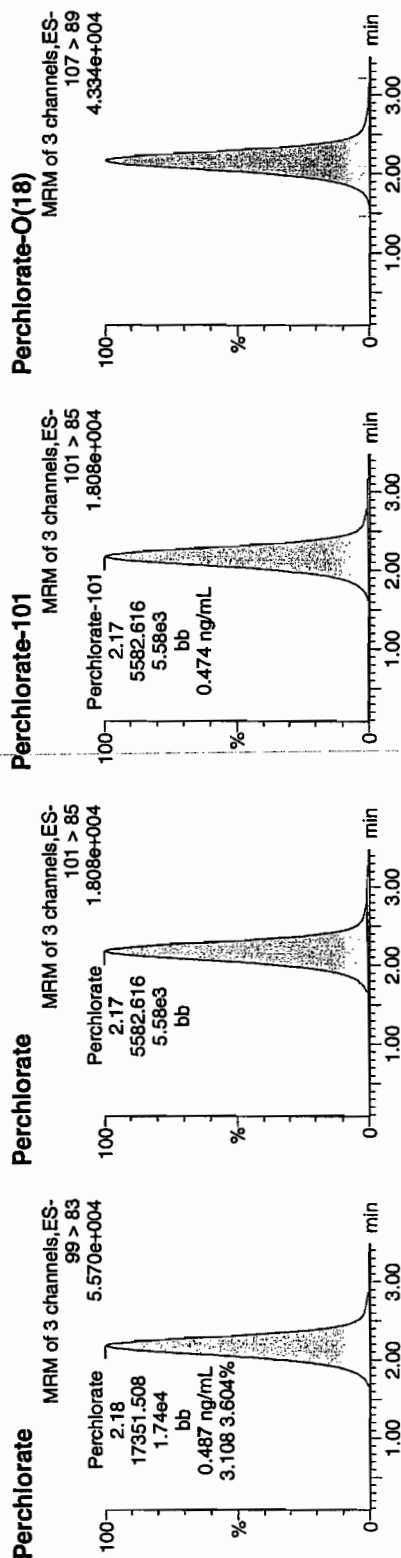
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320084a  
Date: 21-Mar-2010  
Time: 02:54:28  
ID: WCL100318-06CCV  
Vial: 1:2,A

*Per  
and  
3-21-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	2.18	17351.508	17351.508	bb			0.4871	97.41	-2.59	1130.4...	3.11
WCL100318-06CCV	Perchlorate-101	101 > 85	2.17	5582.616	5582.616	bb			0.4745	94.90	-5.10	1490.4...	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	2.17	13633.057	13633.057	bb			0.4662	93.25	-6.75	1394.8...	

*NOT  
3/23/10*



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

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320097a

Date: 21-Mar-2010

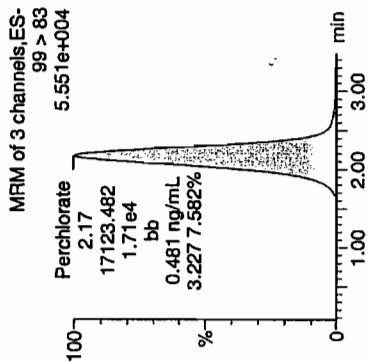
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ID: WCL100318-06CCV

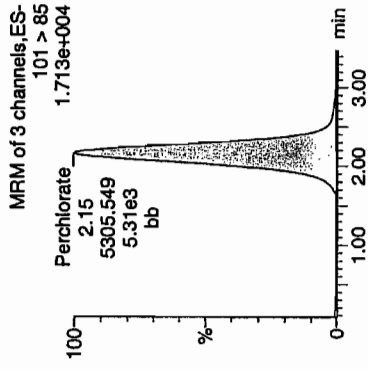
Vial: 1:2.A

Puan  
03.21.10

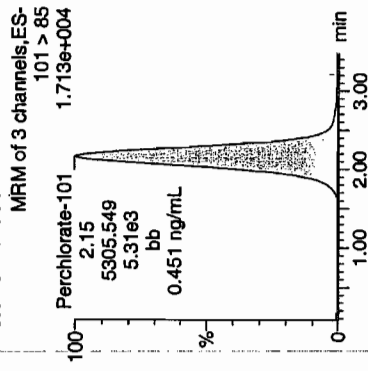
### Perchlorate



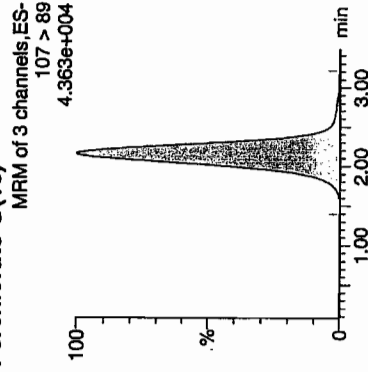
### Perchlorate



### Perchlorate-101



### Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	2.17	17123.482	17123.482	bb			0.4807	96.13	-3.87	2714.8...	3.23
WCL100318-06CCV	Perchlorate-101	101 > 85	2.15	5305.549	5305.549	bb			0.4509	90.19	-9.81	876.176	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	2.15	13543.910	13543.910	bb			0.4632	92.64	-7.36	974.501	

μA  
3/22/10

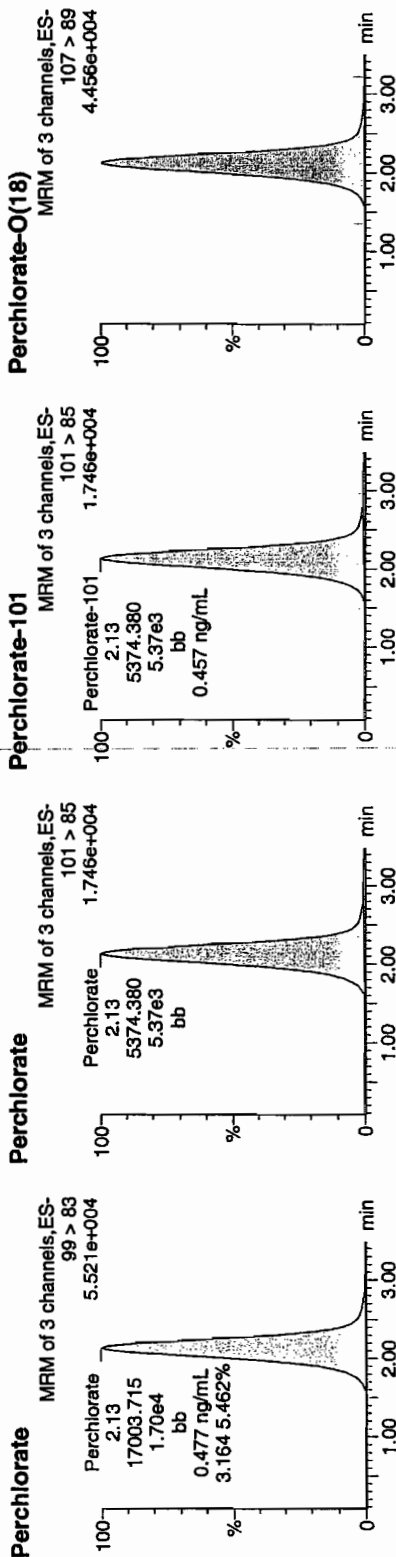
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320110a  
Date: 21-Mar-2010  
Time: 05:46:25  
ID: WCL100318-06CCV  
Vial: 1:2,A

Per  
03-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	2.13	17003.715	17003.715	bb			0.4773	95.46	-4.54	1695.7...	3.16
WCL100318-06CCV	Perchlorate-101	101 > 85	2.13	5374.380	5374.380	bb			0.4568	91.36	-8.64	425.759	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	2.12	13711.678	13711.678	bb			0.4689	93.78	-6.22	3735.4...	

3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320122a

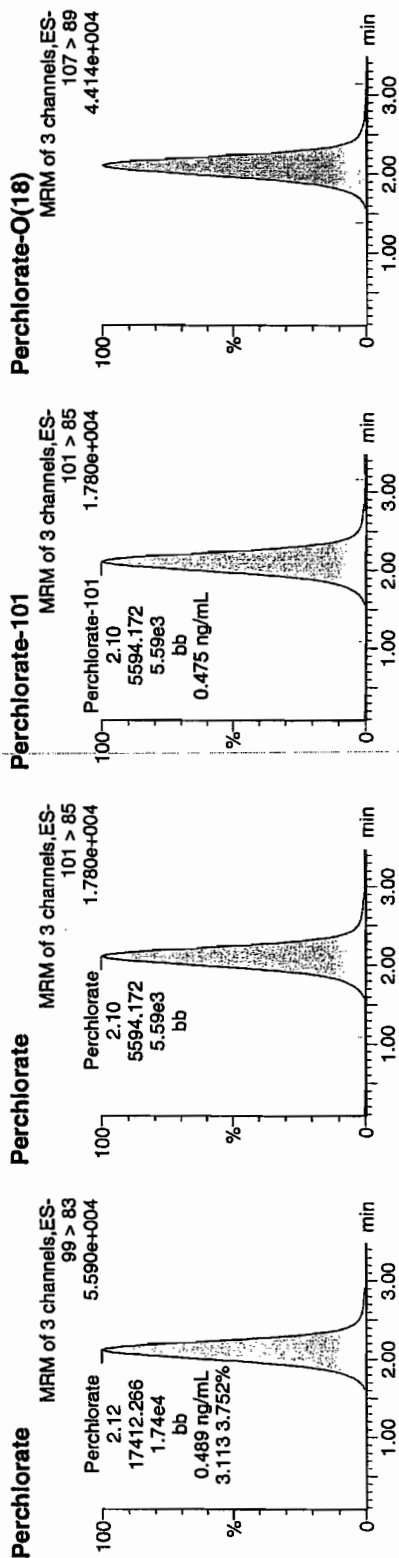
Date: 21-Mar-2010

Time: 07:05:31

ID: WCL100318-06CCV

Vial: 1:2,A

Pure  
and  
03-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	2.12	17412.266	17412.266	bb			0.4888	97.75	-2.25	5248.5...	3.11
WCL100318-06CCV	Perchlorate-101	101 > 85	2.10	5594.172	5594.172	bb			0.4755	95.09	-4.91	2107.8...	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	2.10	13846.321	13846.321	bb			0.4735	94.71	-5.29	5620.4...	

WAT  
3/22/10

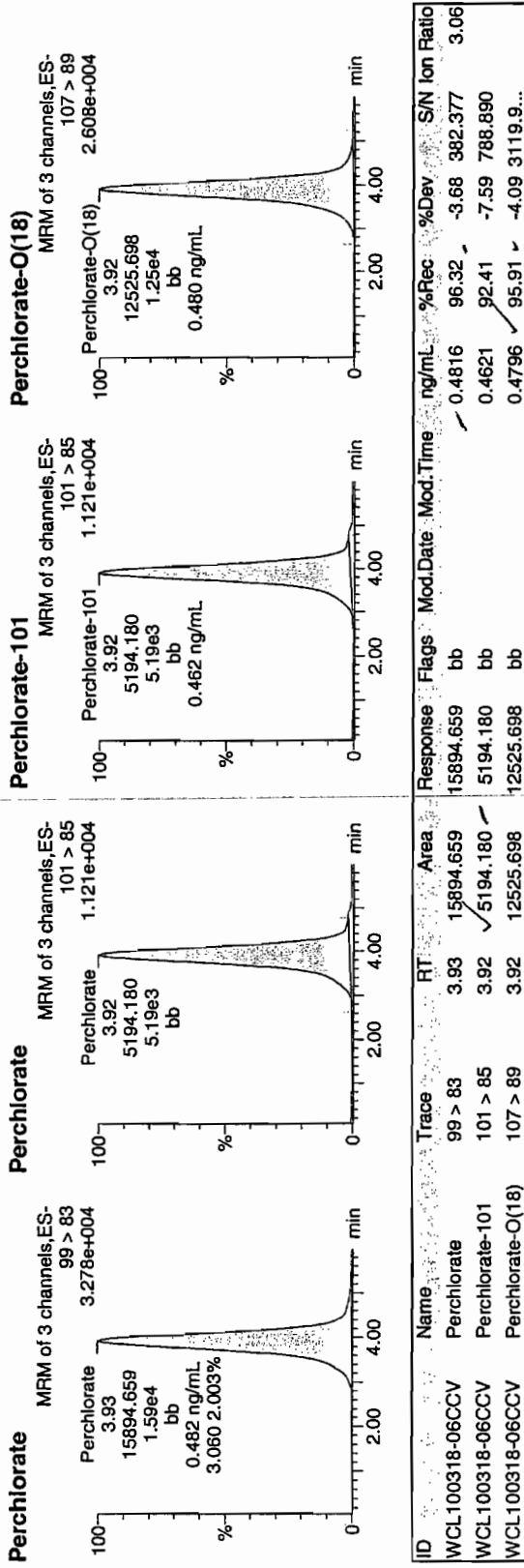
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032110a.qld

Last Altered: Monday, March 22, 2010 8:36:52 AM Eastern Standard Time  
Printed: Monday, March 22, 2010 8:44:57 AM Eastern Standard Time

Name: per0321022a  
Date: 21-Mar-2010  
Time: 17:18:19  
ID: WCL100318-06CCV  
Vial: 1:2,A

PWD  
3/22/10



WCL  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2200

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	103.4	20-MAR-10 18:53	per0320011a
Perchlorate Isotope Ratio		3.21		20-MAR-10 18:53	per0320011a
Perchlorate-101	.05	.05	97.4	20-MAR-10 18:53	per0320011a
Perchlorate	.05	.05	104.36	20-MAR-10 20:18	per0320024a
Perchlorate Isotope Ratio		3.03		20-MAR-10 20:18	per0320024a
Perchlorate-101	.05	.05	104.4	20-MAR-10 20:18	per0320024a
Perchlorate	.05	.05	95.5	20-MAR-10 21:44	per0320037a
Perchlorate Isotope Ratio		2.94		20-MAR-10 21:44	per0320037a
Perchlorate-101	.05	.05	98.34	20-MAR-10 21:44	per0320037a
Perchlorate	.05	.05	95.93	20-MAR-10 23:09	per0320050a
Perchlorate Isotope Ratio		3.06		20-MAR-10 23:09	per0320050a

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2200

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate-101	.05	.05	95.07	20-MAR-10 23:09	per0320050a
Perchlorate	.05	.05	97.87	21-MAR-10 00:15	per0320060a
Perchlorate Isotope Ratio		3.07		21-MAR-10 00:15	per0320060a
Perchlorate-101	.05	.05	96.53	21-MAR-10 00:15	per0320060a
Perchlorate	.05	.05	91.27	21-MAR-10 01:41	per0320073a
Perchlorate Isotope Ratio		3.33		21-MAR-10 01:41	per0320073a
Perchlorate-101	.05	.04	83.08	21-MAR-10 01:41	per0320073a
Perchlorate	.05	.05	100.07	21-MAR-10 03:07	per0320086a
Perchlorate Isotope Ratio		2.94		21-MAR-10 03:07	per0320086a
Perchlorate-101	.05	.05	103.14	21-MAR-10 03:07	per0320086a
Perchlorate	.05	.05	94.2	21-MAR-10 04:34	per0320099a

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2200

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate Isotope Ratio		2.79		21-MAR-10 04:34	per0320099a
Perchlorate-101	.05	.05	102.37	21-MAR-10 04:34	per0320099a
Perchlorate	.05	.05	92.8	21-MAR-10 05:59	per0320112a
Perchlorate Isotope Ratio		2.94		21-MAR-10 05:59	per0320112a
Perchlorate-101	.05	.05	95.6	21-MAR-10 05:59	per0320112a
Perchlorate	.05	.05	94.7	21-MAR-10 07:18	per0320124a
Perchlorate Isotope Ratio		2.88		21-MAR-10 07:18	per0320124a
Perchlorate-101	.05	.05	99.43	21-MAR-10 07:18	per0320124a
Perchlorate	.05	.05	101.95	21-MAR-10 15:38	per0321011a
Perchlorate Isotope Ratio		2.9		21-MAR-10 15:38	per0321011a
Perchlorate-101	.05	.05	103.17	21-MAR-10 15:38	per0321011a

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2200

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate	.05	.04	89.65	21-MAR-10 17:36	per0321024a
Perchlorate Isotope Ratio		2.86		21-MAR-10 17:36	per0321024a
Perchlorate-101	.05	.05	92.18	21-MAR-10 17:36	per0321024a



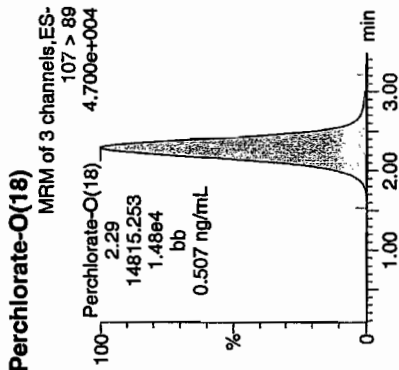
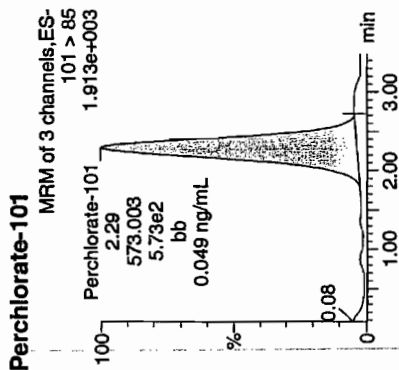
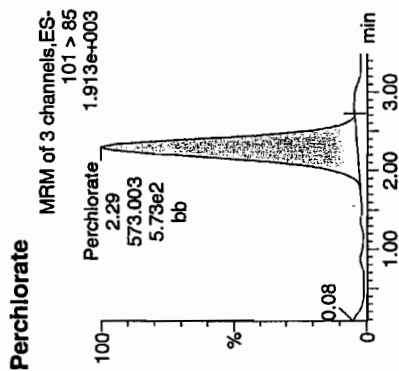
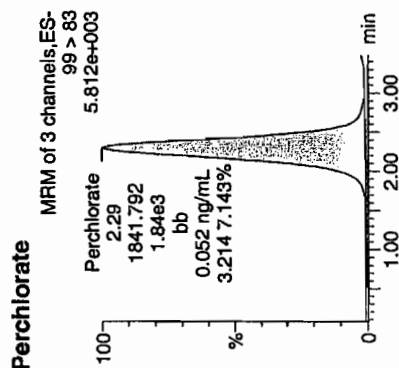
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320011a  
Date: 20-Mar-2010  
Time: 18:53:43  
ID: WCL100318-07CRI  
Vial: 1;2,B

Per  
and  
03-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	2.29	1841.792	1841.792	bb			0.0517	103.40	3.40	1408.1...	3.21
WCL100318-07CRI	Perchlorate-101	101 > 85	2.29	573.003	573.003	bb			0.0487	97.40	-2.60	325.827	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	2.29	14815.253	14815.253	bb			0.5067	101.33	1.33	1168.5...	

$$\frac{1841.792}{573.003} = 3.2143$$

3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

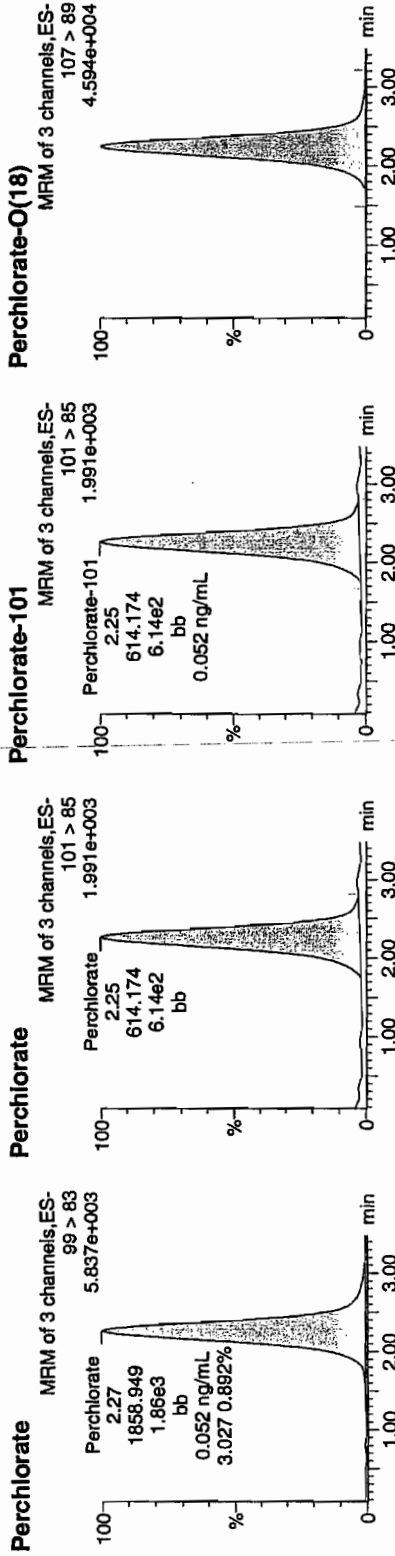
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320024a  
Date: 20-Mar-2010  
Time: 20:18:59  
ID: WCL100318-07CRI  
Vial: 1:2,B

Per  
03-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	2.27	1858.949	1858.949	bb			0.0522	104.36	4.36	64.555	3.03
WCL100318-07CRI	Perchlorate-101	101 > 85	2.25	614.174	614.174	bb			0.0522	104.40	4.40	204.166	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	2.24	14414.553	14414.553	bb			0.4930	98.59	-1.41	4882.6...	

WCL  
3/22/10

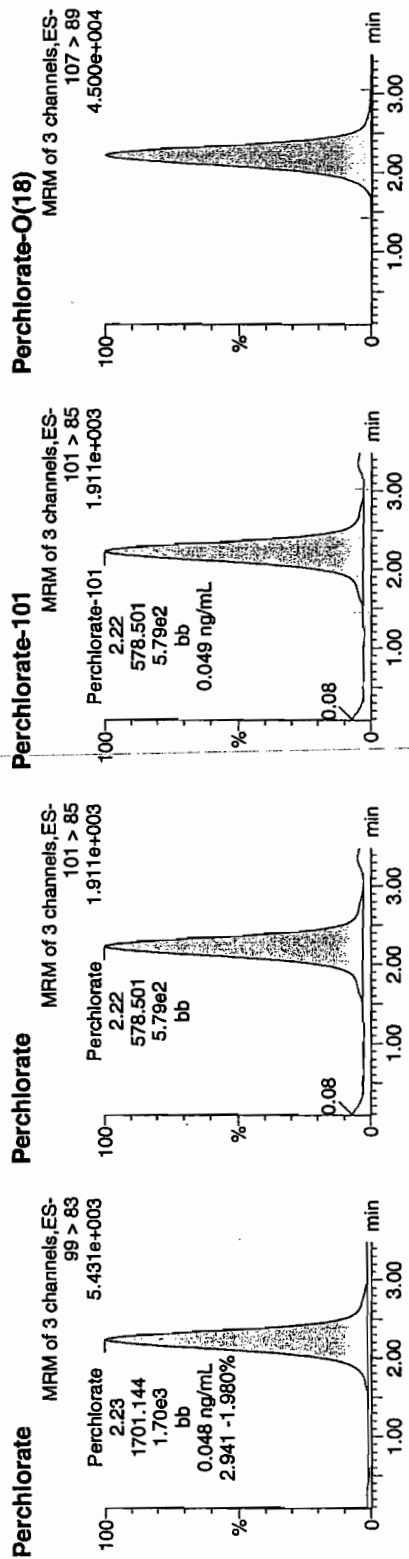
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320037a  
Date: 20-Mar-2010  
Time: 21:44:12  
ID: WCL100318-07CRI  
Vial: 1:2,B

*Per  
and  
03-21-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	2.23	1701.144	1701.144	bb			0.0478	95.50	-4.50	316.069	2.94
WCL100318-07CRI	Perchlorate-101	101 > 85	2.22	578.501	578.501	bb			0.0492	98.34	-1.66	189.430	
WCL100318-07CRI	Perchlorate-Q(18)	107 > 89	2.22	13969.877	13969.877	bb			0.4778	95.55	-4.45	2126.5...	

*not  
3/20/10*

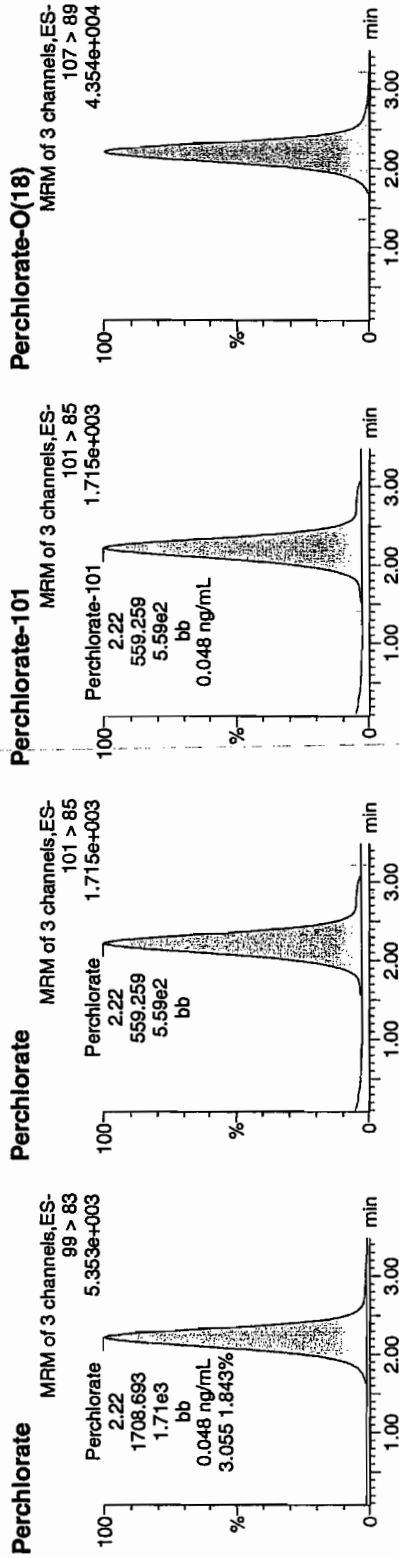
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320050a  
Date: 20-Mar-2010  
Time: 23:09:39  
ID: WCL100318-07CRI  
Vial: 1;2,B

*Per*  
*WCL*  
*03.2.140*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	2.22	1708.693	1708.693	bb			0.0480	95.93	-4.07	132.499	3.06
WCL100318-07CRI	Perchlorate-101	101 > 85	2.22	559.259	559.259	bb			0.0475	95.07	-4.93	285.744	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	2.20	13689.955	13689.955	bb			0.4682	93.64	-6.36	2750.8...	

*WCL*  
*3/22/10*

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320060a

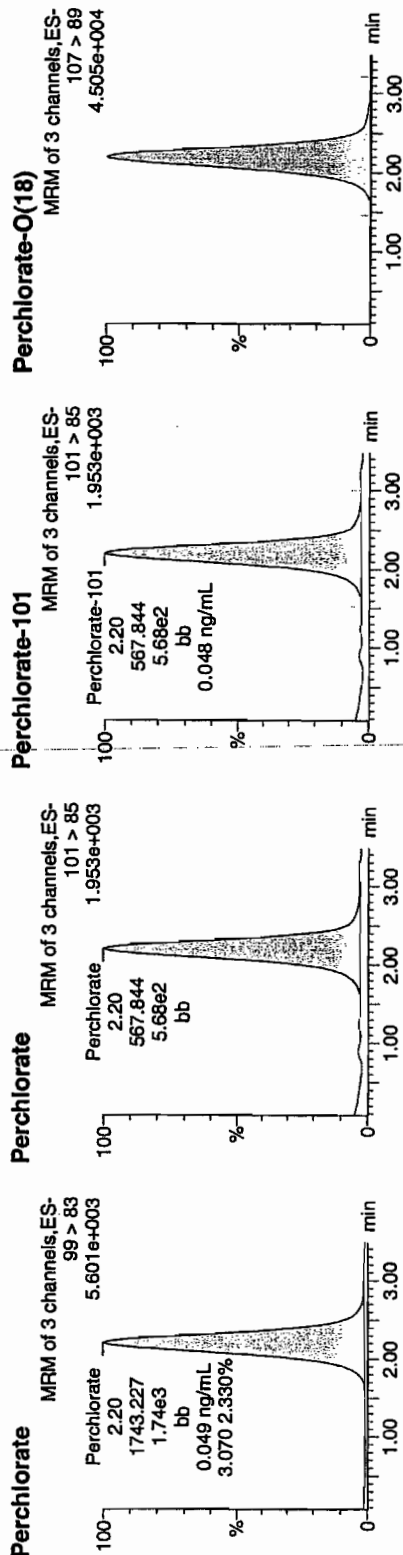
Date: 21-Mar-2010

Time: 00:15:20

ID: WCL100318-07CRI

Vial: 1:2,B

Pure  
600  
3/21/10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	2.20	1743.227	1743.227	bb			0.0489	97.87	-2.13	764.992	3.07
WCL100318-07CRI	Perchlorate-101	101 > 85	2.20	567.844	567.844	bb			0.0483	96.53	-3.47	247.004	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	2.19	14162.646	14162.646	bb			0.4843	96.87	-3.13	1033.9...	

1007  
3/21/10

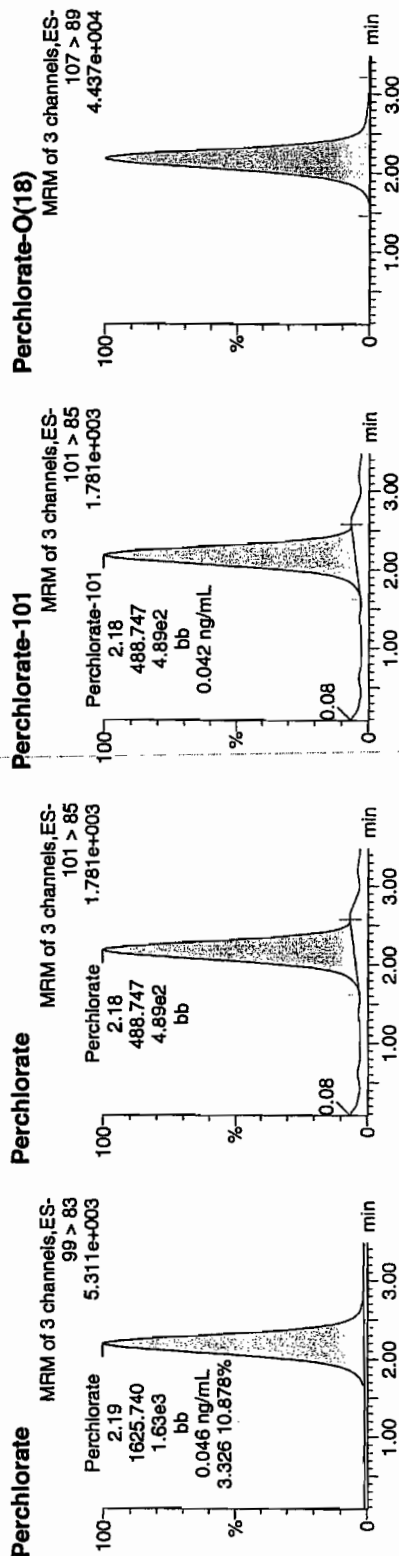
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320073a  
Date: 21-Mar-2010  
Time: 01:41:53  
ID: WCL100318-07CRI  
Vial: 1:2,B

Pure  
conc  
03-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	2.19	1625.740	1625.740	bb			0.0456	91.27	-8.73	1580.2...	3.33
WCL100318-07CRI	Perchlorate-101	101 > 85	2.18	488.747	488.747	bb			0.0415	83.08	-16.92	598.747	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	2.18	13762.139	13762.139	bb			0.4706	94.13	-5.87	3181.8...	

MAT  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

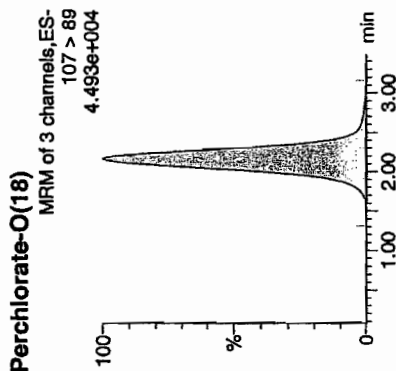
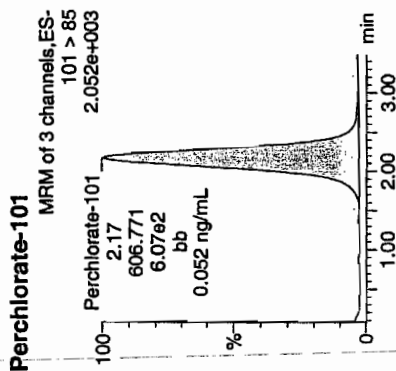
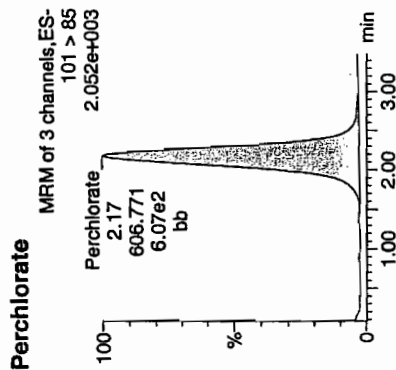
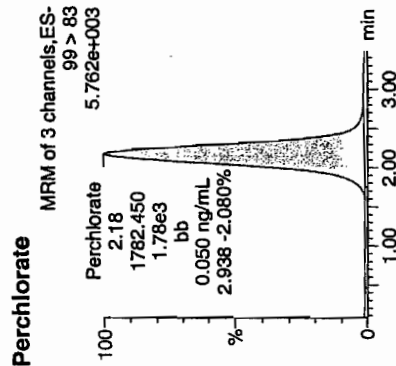
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320086a  
Date: 21-Mar-2010  
Time: 03:07:48  
ID: WCL100318-07CRI  
Vial: 1:2,B

*Perchlorate*  
*03.2.10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	2.18	1782.450	1782.450	bb			0.0500	100.07	0.07	297.059	2.94
WCL100318-07CRI	Perchlorate-101	101 > 85	2.17	✓ 606.771	606.771	bb			0.0516	103.14	3.14	227.179	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	2.17	14032.999	14032.999	bb			0.4799	95.98	-4.02	859.799	

*107*  
*3/22/10*

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320099a

Date: 21-Mar-2010

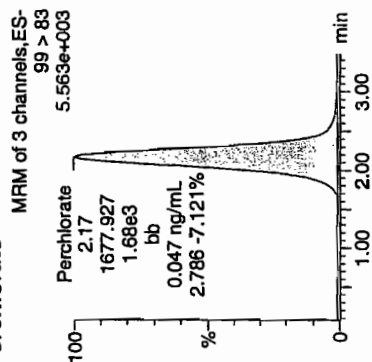
Time: 04:34:05

ID: WCL100318-07CRI

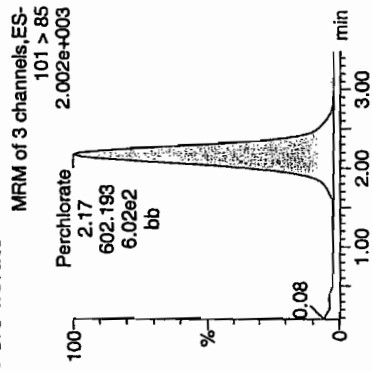
Vial: 1:2,B

Run  
03-21-10

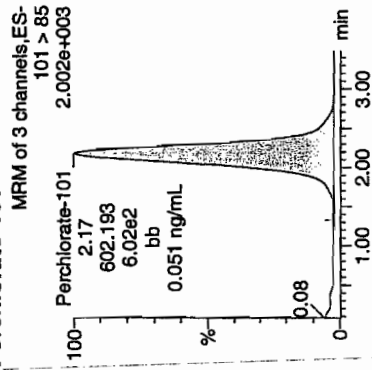
### Perchlorate



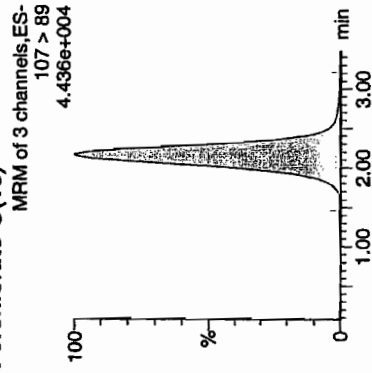
### Perchlorate



### Perchlorate-101



### Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	2.17	1677.927	1677.927	bb			0.0471	94.20	-5.80	1781.0...	2.79
WCL100318-07CRI	Perchlorate-101	101 > 85	2.17	✓ 602.193	602.193	bb			0.0512	102.37	2.37	223.070	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	2.15	13803.879	13803.879	bb			0.4721	94.42	-5.58	1778.4...	

1007  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification



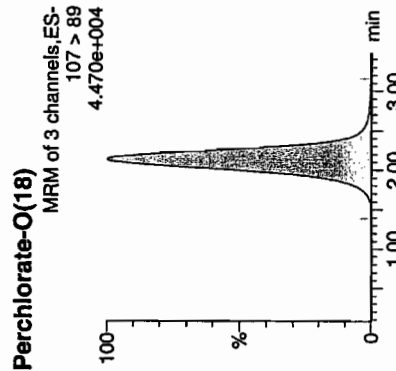
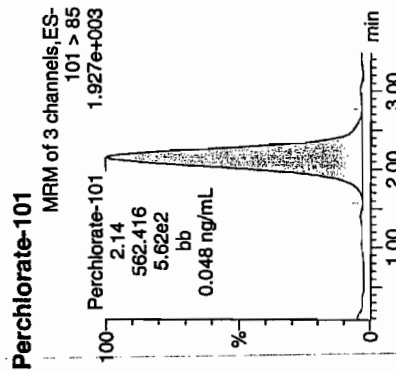
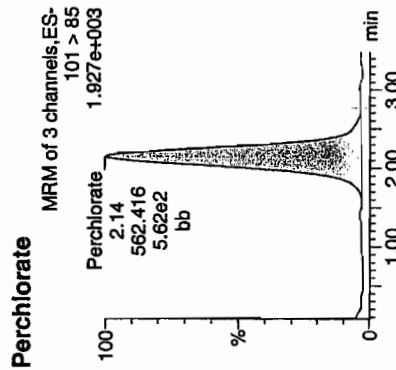
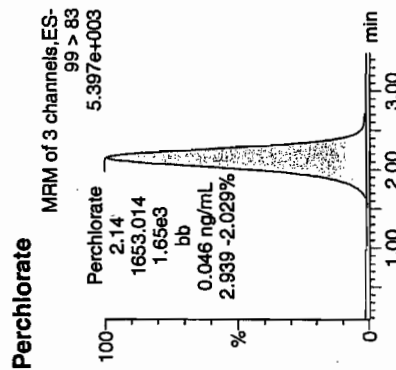
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320112a  
Date: 21-Mar-2010  
Time: 05:59:43  
ID: WCL100318-07CRI  
Vial: 1:2,B

*Perchlorate*  
*03-21-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	2.14	1653.014	1653.014	bb			0.0464	92.80	-7.20	1177.0...	2.94
WCL100318-07CRI	Perchlorate-101	101 > 85	2.14	562.416	562.416	bb			0.0478	95.60	-4.40	324.247	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	2.13	13968.947	13968.947	bb			0.4777	95.54	-4.46	918.914	

*NA*  
*3/22/10*

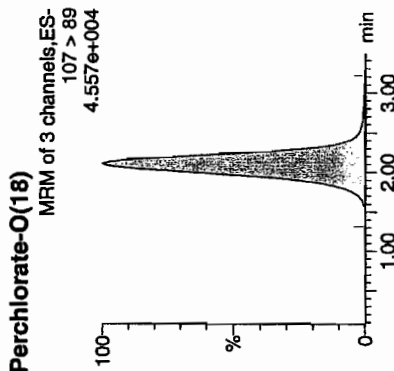
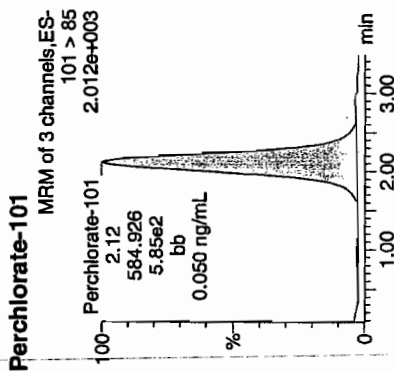
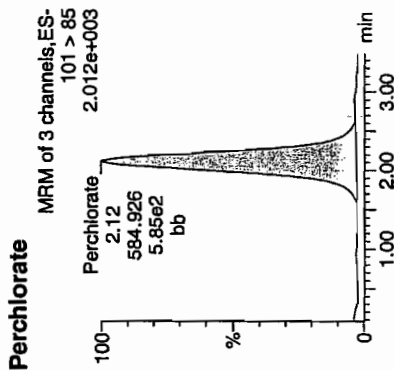
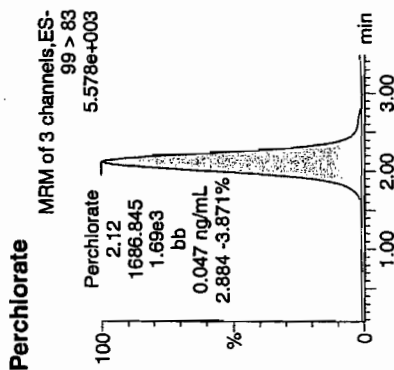
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320124a  
Date: 21-Mar-2010  
Time: 07:18:50  
ID: WCL100318-07CRI  
Vial: 1:2,B

Pure  
GWS  
03-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	2.12	1686.845	1686.845	bb			0.0474	94.70	-5.30	1699.2...	2.88
WCL100318-07CRI	Perchlorate-101	101 > 85	2.12	584.926	584.926	bb			0.0497	99.43	-0.57	75.406	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	2.10	14070.076	14070.076	bb			0.4812	96.24	-3.76	5273.3...	

WAT  
3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

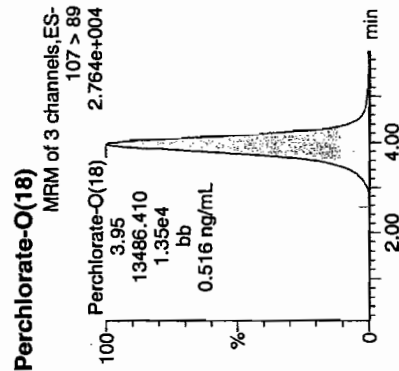
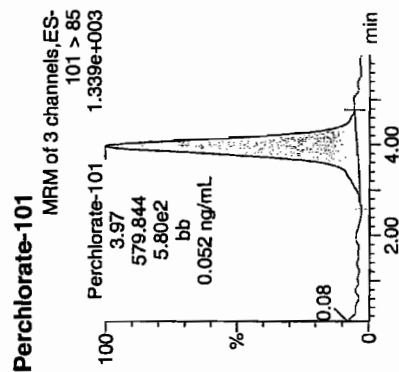
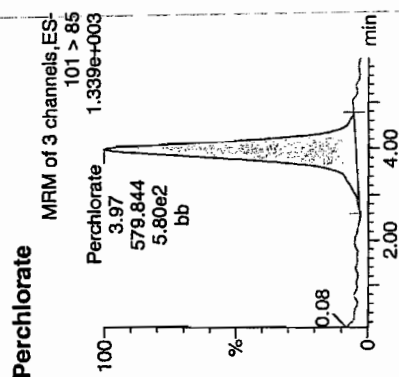
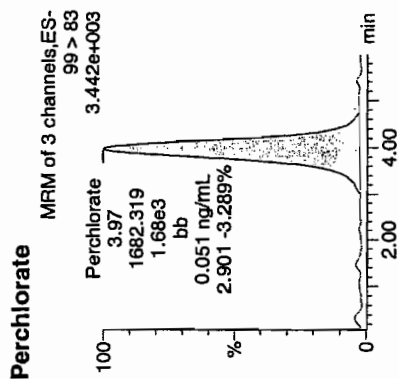
Quantify Sample Report MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032110a.qld

Last Altered: Monday, March 22, 2010 8:36:52 AM Eastern Standard Time  
Printed: Monday, March 22, 2010 8:44:57 AM Eastern Standard Time

Name: per0321011a  
Date: 21-Mar-2010  
Time: 15:38:35  
ID: WCL100318-07CRI  
Vial: 1:2,B

Per  
CWS  
03-22-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	3.97	1682.319	1682.319	bb			0.0510	101.95	1.95	133.391	2.90
WCL100318-07CRI	Perchlorate-101	101 > 85	3.97	579.844	579.844	bb			0.0516	103.17	3.17	18.506	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	3.95	13486.410	13486.410	bb			0.5163	103.27	3.27	1324.3...	

$\frac{1682.319}{579.844} = 2.9013$   
 3/22/10

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032110a.qld

Last Altered: Monday, March 22, 2010 8:36:52 AM Eastern Standard Time  
Printed: Monday, March 22, 2010 8:44:57 AM Eastern Standard Time

Name: per0321024a

Date: 21-Mar-2010

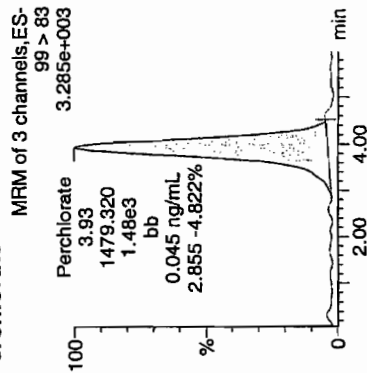
Time: 17:36:24

ID: WCL100318-07CRI

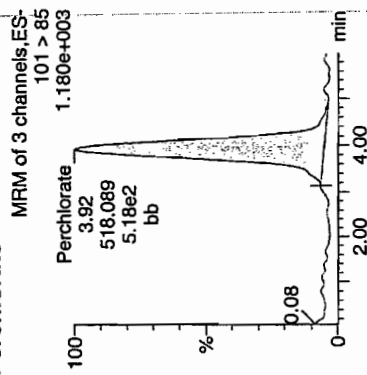
Vial: 1:2,B

Pure  
0.03-23-10

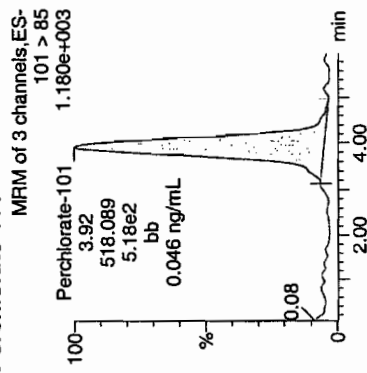
### Perchlorate



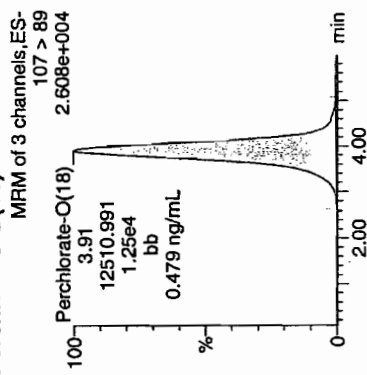
### Perchlorate



### Perchlorate-101



### Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	3.93	1479.320	1479.320	bb			0.0448	89.65	-10.35	138.101	2.86
WCL100318-07CRI	Perchlorate-101	101 > 85	3.92	518.089	518.089	bb			0.0461	92.18	-7.82	10.850	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	3.91	12510.991	12510.991	bb			0.4790	95.80	-4.20	827.008	

3/22/10

# 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: 963901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

MB

Date Received: 12-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 1202067815

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 100

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	0.500	ug/kg	U	1	21-MAR-10 03:41	per0320091a
	Perchlorate Isotope Ratio						1	21-MAR-10 03:41	per0320091a
14797-73-0	Perchlorate-101	.5	2	0.500	ug/kg	U	1	21-MAR-10 03:41	per0320091a
	Perchlorate-O(18)			4.52	ug/kg		1	21-MAR-10 03:41	per0320091a

<sup>^</sup> 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  $\frac{1}{\% \text{Solids}}$

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320091a

Date: 21-Mar-2010

Time: 03:41:01

ID: 1202067815

Vial: 2:4,F

3/21/10

11/11

1000 | 963402 | 30220

**Perchlorate**

MRM of 3 channels, ES-

99 > 83

1.463e+002

0.29

0.66

3.02

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

**Perchlorate-101**

MRM of 3 channels, ES-

101 > 85

9.567e+001

0.08

0.69

1.69

2.70

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

**Perchlorate-O(18)**

MRM of 3 channels, ES-

107 > 89

4.272e+004

0.0007

0.4523

90.45

-8.55

4506.1...

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

3.00

min

1.00

2.00

ID	Name	Trace	RT	Area	Response	Flags	Mod	Date	Mod	Time	mg/mL	%Rec	%Dev	S/N	Ion Ratio
1202067815	Perchlorate	99 > 83	2.19	23.207	23.207	bb					0.0007	90.45	-8.55	4506.1...	0.00
1202067815	Perchlorate-101	101 > 85	2.17	13224.619	13224.619	bb					0.4523	90.45	-8.55	4506.1...	0.00
1202067815	Perchlorate-O(18)	107 > 89	2.17	13224.619	13224.619	bb					0.4523	90.45	-8.55	4506.1...	0.00

14577  
3/22/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC  
 Lab Code: GEL  
 Instrument: LCMSMS  
 Method: EPA 6850 Modified  
 Matrix: SOIL  
 Extraction Batch ID: 263901  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. LCS  
 Date Received: 12-MAR-10  
 GEL Job No (SDG): 10-2200  
 GEL Sample ID: 1202067816  
 Date Filtered: 12-MAR-10  
 Injection Volume (uL): 20  
 %Solids: 100

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	1.99	ug/kg	J	1	21-MAR-10 03:47	per0320092a
	Perchlorate Isotope Ratio			3.07			1	21-MAR-10 03:47	per0320092a
14797-73-0	Perchlorate-101	.5	2	1.96	ug/kg	J	1	21-MAR-10 03:47	per0320092a
	Perchlorate-O(18)			4.70	ug/kg		1	21-MAR-10 03:47	per0320092a

<sup>^</sup> 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  $\frac{1}{\% \text{Solids}}$



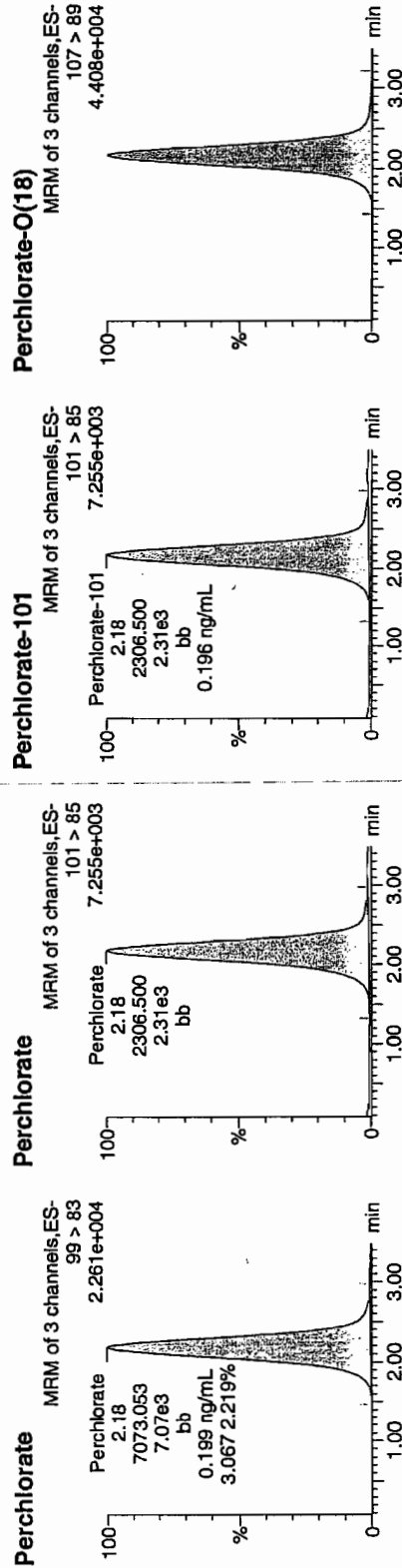
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320092a  
Date: 21-Mar-2010  
Time: 03:47:45  
ID: 1202067816  
Vial: 2:5,A

663  
03-21-10  
LCS | 963902 | SUTD | LCS | 11



$$\frac{7073.053}{3524.7} = 0.1985$$

WAT  
3/22/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 963901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-828MS

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 1202067817

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 84

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.598	2.39	12.8	ug/kg		1	21-MAR-10 05:26	per0320107a
	Perchlorate Isotope Ratio			3.05			1	21-MAR-10 05:26	per0320107a
14797-73-0	Perchlorate-101	.598	2.39	12.7	ug/kg		1	21-MAR-10 05:26	per0320107a
	Perchlorate-O(18)			5.60	ug/kg		1	21-MAR-10 05:26	per0320107a

<sup>^</sup> 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 =

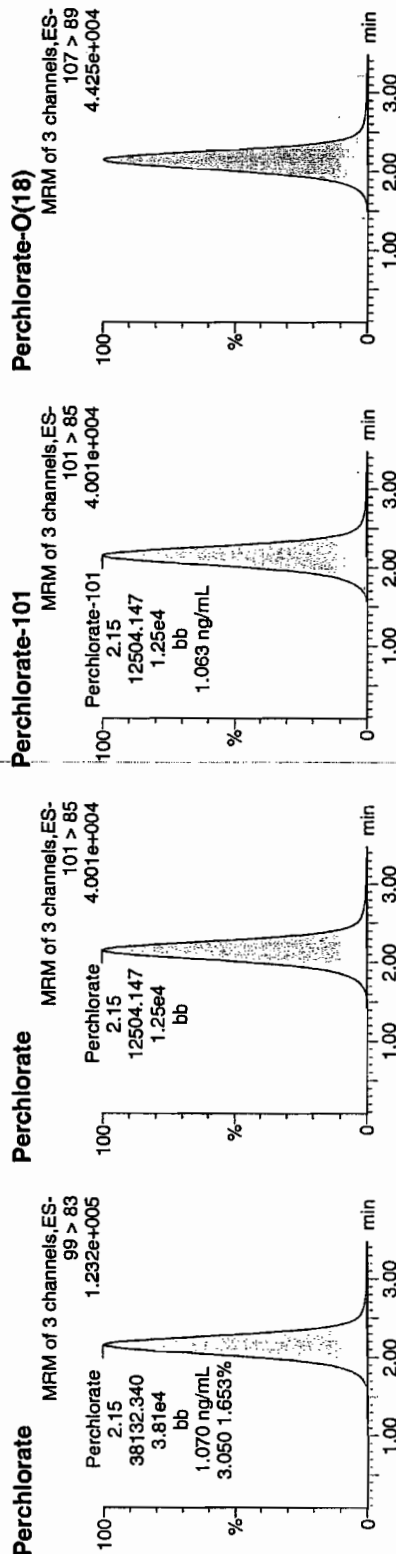
Instrument Value X  $\frac{\text{Concentrated Extract Volume}}{\text{Aliquot}}$  X  $\frac{1}{\% \text{Solids}}$

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld  
Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320107a  
Date: 21-Mar-2010  
Time: 05:26:42  
ID: 1202067817  
Vial: 2:7,A

JUST OVER-NIGHT ANALYSIS  
OKAY TO REPORT  
WMS 03-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202067817	Perchlorate	99 > 83	2.15	38132.340	38132.340	bb			1.0704	535.19	435.19	8580.4...	3.05
1202067817	Perchlorate-101	101 > 85	2.15	12504.147	12504.147	bb			1.0628	531.39	431.39	10847...	
1202067817	Perchlorate-O(18)	107 > 89	2.14	13685.844	13685.844	bb			0.4680	93.61	-6.39	1835.2...	

38132.340  
12504.147  
= 3.0495

WMS  
3/21/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 963901

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8288MSD

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2200

GEL Sample ID: 1202067818

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 84

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.598	2.39	13.3	ug/kg		1	21-MAR-10 05:33	per0320108a
	Perchlorate Isotope Ratio			2.99			1	21-MAR-10 05:33	per0320108a
14797-73-0	Perchlorate-101	.598	2.39	13.5	ug/kg		1	21-MAR-10 05:33	per0320108a
	Perchlorate-O(18)			5.75	ug/kg		1	21-MAR-10 05:33	per0320108a

<sup>^</sup> 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 %Solids  
Aliquot

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

Last Altered: Sunday, March 21, 2010 8:29:18 AM Eastern Standard Time  
Printed: Sunday, March 21, 2010 8:43:52 AM Eastern Standard Time

Name: per0320108a  
Date: 21-Mar-2010  
Time: 05:33:17  
ID: 1202067818  
Vial: 2:7,B

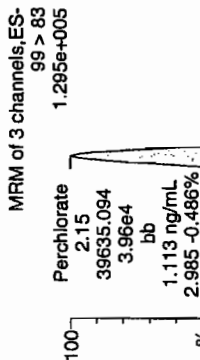
JUST OVER-RANGE DUE TO SPKING

W34 TO W3007

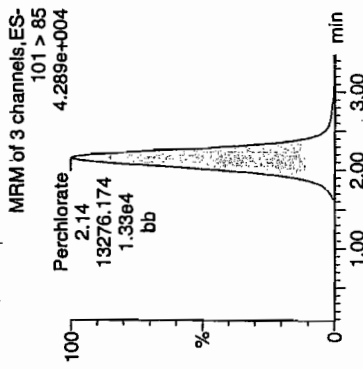
W34  
0321-10

1202067818 | 903402 | 3000 | 150 | 11

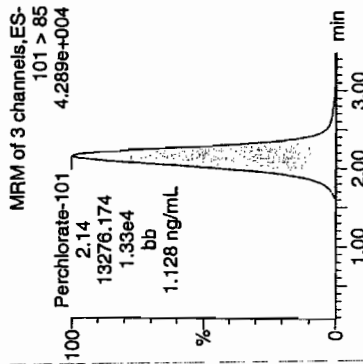
**Perchlorate**



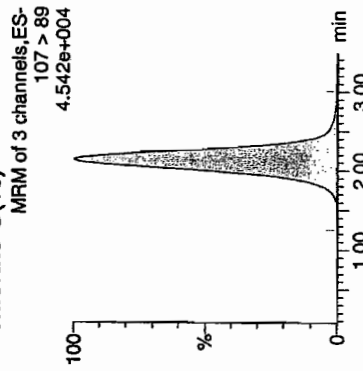
**Perchlorate**



**Perchlorate-101**



**Perchlorate-O(18)**



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202067818	Perchlorate	99 > 83	2.15	39635.094	39635.094	bb			1.1126	556.29	456.29	5579.2...	2.99
1202067818	Perchlorate-101	101 > 85	2.14	13276.174	13276.174	bb			1.1284	564.20	464.20	1567.8...	
1202067818	Perchlorate-O(18)	107 > 89	2.14	14055.795	14055.795	bb			0.4807	96.14	-3.86	2873.0...	

W34  
3/22/10

# MISCELLANEOUS DATA

Prep Logbook

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

Batch ID: 963901 Verified by:  
 Analyst: Jareth Shirley  
 Method: SW846 6850 Modified  
 Lab SOP: GL-OA-E-067 REV# 6  
 Instrument: MicroMass Quatro Ultima

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202067815 MB	12-MAR-2010 13:58:00	2	20	10
1202067816 LCS	12-MAR-2010 13:58:00	2	20	10
248418001	12-MAR-2010 13:58:00	2	20	10
248418002	12-MAR-2010 13:58:00	2	20	10
248418003	12-MAR-2010 13:58:00	2	20	10
248418004	12-MAR-2010 13:58:00	2	20	10
248418005	12-MAR-2010 13:58:00	2	20	10
248418006	12-MAR-2010 13:58:00	2	20	10
248418007	12-MAR-2010 13:58:00	2	20	10
248418008	12-MAR-2010 13:58:00	2	20	10
248418009	12-MAR-2010 13:58:00	2	20	10
248520001	12-MAR-2010 13:58:00	2	20	10
1202067817 MS (248520001)	12-MAR-2010 13:58:00	2	20	10
1202067818 MSD (248520001)	12-MAR-2010 13:58:00	2	20	10
248520002	12-MAR-2010 13:58:00	2	20	10
248520003	12-MAR-2010 13:58:00	2	20	10
248520004	12-MAR-2010 13:58:00	2	20	10
248520005	12-MAR-2010 13:58:00	2	20	10
248520006	12-MAR-2010 13:58:00	2	20	10
248520007	12-MAR-2010 13:58:00	2	20	10
248520008	12-MAR-2010 13:58:00	2	20	10
248520009	12-MAR-2010 13:58:00	2	20	10
248520010	12-MAR-2010 13:58:00	2	20	10
248520011	12-MAR-2010 13:58:00	2	20	10
1202067819 LCS	12-MAR-2010 13:58:00	2	20	10

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202067819	10 ug/L ICV/CCV Second Source	UCL100311-01.1	.4	mL	Desalting Cartridges used: 100216-1-H & 100223-1-Bu
LCS	1202067816	10 ug/L ICV/CCV Second Source	UCL100311-01.1	.4	mL	
MS	1202067817	10 ug/L ICV/CCV Second Source	UCL100311-01.1	.4	mL	
MSD	1202067818	10 ug/L ICV/CCV Second Source	UCL100311-01.1	.4	mL	

# GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 03/20/10  
Extr. Injection Volume: 20uL  
Sequence Number: per032010a  
Initial Calibration Date: 03/20/10

Method: EPA 6850-Modified  
Int. Std.: UCL100210-01  
Mobile Phase Lot#: 1278668, 1271949  
Standard-Samp Reagent Lot#: 1271949

Reviewed BY: WJH  
Date: 3/22/10  
SOP: GL-OA-E-067 Rev.6  
Alt Check Std. ID: WCL100318-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0320001a	IPB001	CWW	3/20/2010 17:47			1		USE	B
per0320002a	IPB001	CWW	3/20/2010 17:54			1		USE	B
per0320003a	WCLICAL-01	CWW	3/20/2010 18:01			1		USE	I
per0320004a	WCLICAL-02	CWW	3/20/2010 18:07			1		USE	I
per0320005a	WCLICAL-03	CWW	3/20/2010 18:14			1		USE	I
per0320006a	WCLICAL-04	CWW	3/20/2010 18:20			1		USE	I
per0320007a	WCLICAL-05	CWW	3/20/2010 18:27			1		USE	I
per0320008a	IPB002	CWW	3/20/2010 18:33			1		USE	B
per0320009a	WCLICV	CWW	3/20/2010 18:40			1		USE	C
per0320010a	IPB003	CWW	3/20/2010 18:47			1		USE	B
per0320011a	WCLCRI	CWW	3/20/2010 18:53			1		USE	C
per0320012a	248198001	CWW	3/20/2010 19:00	959012	10-2122	2	LANL	USE	S
per0320013a	1202056678	CWW	3/20/2010 19:06	959012	10-2122	2	LANL	USE	S
per0320014a	1202056679	CWW	3/20/2010 19:13	959012	10-2122	2	LANL	USE	S
per0320015a	248198002	CWW	3/20/2010 19:20	959012	10-2122	10	LANL	USE	S
per0320016a	248198003	CWW	3/20/2010 19:26	959012	10-2122	2	LANL	USE	S
per0320017a	248198004	CWW	3/20/2010 19:33	959012	10-2122	10	LANL	USE	S
per0320018a	248198005	CWW	3/20/2010 19:39	959012	10-2122	2	LANL	USE	S
per0320019a	248198006	CWW	3/20/2010 19:46	959012	10-2122	1	LANL	USE	S
per0320020a	248198007	CWW	3/20/2010 19:52	959012	10-2122	2	LANL	USE	S
per0320021a	248198008	CWW	3/20/2010 19:59	959012	10-2122	1	LANL	USE	S
per0320022a	WCLCCV	CWW	3/20/2010 20:05			1		USE	C
per0320023a	IPB004	CWW	3/20/2010 20:12			1		USE	B
per0320024a	WCLCRI	CWW	3/20/2010 20:18			1		USE	C
per0320025a	1202056672	CWW	3/20/2010 20:25	969004	10-2117	1	LANL	USE	S
per0320026a	IPB005	CWW	3/20/2010 20:32			1		USE	B
per0320027a	1202056685	CWW	3/20/2010 20:38	959022	10-2129	1	LANL	USE	S
per0320028a	1202056686	CWW	3/20/2010 20:45	959022	10-2129	1	LANL	USE	S
per0320029a	1202056689	CWW	3/20/2010 20:51	959022	10-2129	1	LANL	USE	S



per0320030a	248233001	CWW	3/20/2010 20:58	959022	10-2129	1	LANL	USE	S
per0320031a	1202056687	CWW	3/20/2010 21:04	959022	10-2129	1	LANL	USE	S
per0320032a	1202056688	CWW	3/20/2010 21:11	959022	10-2129	1	LANL	USE	S
per0320033a	248233002	CWW	3/20/2010 21:17	959022	10-2129	1	LANL	USE	S
per0320034a	248233003	CWW	3/20/2010 21:24	959022	10-2129	1	LANL	USE	S
per0320035a	WCLCCV	CWW	3/20/2010 21:30			1		USE	C
per0320036a	IPB006	CWW	3/20/2010 21:37			1		USE	B
per0320037a	WCLCRI	CWW	3/20/2010 21:44			1		USE	C
per0320038a	248233004	CWW	3/20/2010 21:50	959022	10-2129	1	LANL	USE	S
per0320039a	248233005	CWW	3/20/2010 21:57	959022	10-2129	1	LANL	USE	S
per0320040a	248233006	CWW	3/20/2010 22:04	959022	10-2129	1	LANL	USE	S
per0320041a	248233007	CWW	3/20/2010 22:10	959022	10-2129	1	LANL	USE	S
per0320042a	248233008	CWW	3/20/2010 22:17	959022	10-2129	1	LANL	USE	S
per0320043a	248233009	CWW	3/20/2010 22:23	959022	10-2129	1	LANL	USE	S
per0320044a	248233010	CWW	3/20/2010 22:30	959022	10-2129	1	LANL	USE	S
per0320045a	248233011	CWW	3/20/2010 22:36	959022	10-2129	1	LANL	USE	S
per0320046a	248233012	CWW	3/20/2010 22:43	959022	10-2129	1	LANL	USE	S
per0320047a	248233013	CWW	3/20/2010 22:50	959022	10-2129	1	LANL	USE	S
per0320048a	WCLCCV	CWW	3/20/2010 22:56			1		USE	C
per0320049a	IPB007	CWW	3/20/2010 23:03			1		USE	B
per0320050a	WCLCRI	CWW	3/20/2010 23:09			1		USE	C
per0320051a	248233014	CWW	3/20/2010 23:16	959022	10-2129	1	LANL	USE	S
per0320052a	248233015	CWW	3/20/2010 23:22	959022	10-2129	1	LANL	USE	S
per0320053a	248233016	CWW	3/20/2010 23:29	959022	10-2129	1	LANL	USE	S
per0320054a	248233017	CWW	3/20/2010 23:36	959022	10-2129	1	LANL	USE	S
per0320055a	248233018	CWW	3/20/2010 23:42	959022	10-2129	1	LANL	USE	S
per0320056a	248233019	CWW	3/20/2010 23:49	959022	10-2129	1	LANL	USE	S
per0320057a	248233020	CWW	3/20/2010 23:55	959022	10-2129	1	LANL	USE	S
per0320058a	WCLCCV	CWW	3/21/2010 0:02			1		USE	C
per0320059a	IPB008	CWW	3/21/2010 0:08			1		USE	B
per0320060a	WCLCRI	CWW	3/21/2010 0:15			1		USE	C
per0320061a	1202063752	CWW	3/21/2010 0:21	962133	10-2188-1	1	LANL	USE	S
per0320062a	1202063753	CWW	3/21/2010 0:28	962133	10-2188-1	1	LANL	USE	S
per0320063a	1202063756	CWW	3/21/2010 0:35	962133	10-2188-1	1	LANL	USE	S
per0320064a	248408001	CWW	3/21/2010 0:42	962133	10-2188-1	1	LANL	USE	S
per0320065a	1202063754	CWW	3/21/2010 0:48	962133	10-2188-1	1	LANL	USE	S
per0320066a	1202063755	CWW	3/21/2010 0:55	962133	10-2188-1	1	LANL	USE	S

per0320067a	248408002	CWW	3/21/2010 1:01	962133	10-2188-1	1	LANL	USE	S
per0320068a	248408003	CWW	3/21/2010 1:08	962133	10-2188-1	1	LANL	USE	S
per0320069a	248408004	CWW	3/21/2010 1:15	962133	10-2188-1	1	LANL	USE	S
per0320070a	248408005	CWW	3/21/2010 1:21	962133	10-2188-1	1	LANL	USE	S
per0320071a	WCLCCV	CWW	3/21/2010 1:28			1		USE	C
per0320072a	IPB009	CWW	3/21/2010 1:35			1		USE	B
per0320073a	WCLCRI	CWW	3/21/2010 1:41			1		USE	C
per0320074a	248408006	CWW	3/21/2010 1:48	962133	10-2188-1	1	LANL	USE	S
per0320075a	248408007	CWW	3/21/2010 1:55	962133	10-2188-1	1	LANL	USE	S
per0320076a	248408008	CWW	3/21/2010 2:01	962133	10-2188-1	1	LANL	USE	S
per0320077a	248408009	CWW	3/21/2010 2:08	962133	10-2188-1	1	LANL	USE	S
per0320078a	248408010	CWW	3/21/2010 2:15	962133	10-2188-1	1	LANL	USE	S
per0320079a	248408011	CWW	3/21/2010 2:21	962133	10-2188-1	1	LANL	USE	S
per0320080a	248408012	CWW	3/21/2010 2:28	962133	10-2188-1	1	LANL	USE	S
per0320081a	248408013	CWW	3/21/2010 2:34	962133	10-2188-1	1	LANL	USE	S
per0320082a	248408014	CWW	3/21/2010 2:41	962133	10-2188-1	1	LANL	USE	S
per0320083a	248408015	CWW	3/21/2010 2:47	962133	10-2188-1	1	LANL	USE	S
per0320084a	WCLCCV	CWW	3/21/2010 2:54			1		USE	C
per0320085a	IPB010	CWW	3/21/2010 3:01			1		USE	B
per0320086a	WCLCRI	CWW	3/21/2010 3:07			1		USE	C
per0320087a	248408016	CWW	3/21/2010 3:14	962133	10-2188-1	1	LANL	USE	S
per0320088a	248408017	CWW	3/21/2010 3:21	962133	10-2188-1	1	LANL	USE	S
per0320089a	248408018	CWW	3/21/2010 3:27	962133	10-2188-1	1	LANL	USE	S
per0320090a	IPB011	CWW	3/21/2010 3:34			1		USE	B
per0320091a	1202067815	CWW	3/21/2010 3:41	963902	VARIOUS	1	LANL	USE	S
per0320092a	1202067816	CWW	3/21/2010 3:47	963902	VARIOUS	1	LANL	USE	S
per0320093a	1202067819	CWW	3/21/2010 3:54	963902	VARIOUS	1	LANL	USE	S
per0320094a	248418001	CWW	3/21/2010 4:01	963902	10-2191	1	LANL	USE	S
per0320095a	248418002	CWW	3/21/2010 4:07	963902	10-2191	1	LANL	USE	S
per0320096a	248418003	CWW	3/21/2010 4:14	963902	10-2191	1	LANL	USE	S
per0320097a	WCLCCV	CWW	3/21/2010 4:20			1		USE	C
per0320098a	IPB012	CWW	3/21/2010 4:27			1		USE	B
per0320099a	WCLCRI	CWW	3/21/2010 4:34			1		USE	C
per0320100a	248418004	CWW	3/21/2010 4:40	963902	10-2191	1	LANL	USE	S
per0320101a	248418005	CWW	3/21/2010 4:47	963902	10-2191	1	LANL	USE	S
per0320102a	248418006	CWW	3/21/2010 4:53	963902	10-2191	1	LANL	USE	S
per0320103a	248418007	CWW	3/21/2010 5:00	963902	10-2191	1	LANL	USE	S

per0320104a	248418008	CWW	3/21/2010 5:07	963902	10-2191	1	LANL	USE	S
per0320105a	248418009	CWW	3/21/2010 5:13	963902	10-2191	1	LANL	USE	S
per0320106a	248520001	CWW	3/21/2010 5:20	963902	10-2200	1	LANL	USE	S
per0320107a	1202067817	CWW	3/21/2010 5:26	963902	10-2200	1	LANL	USE	S
per0320108a	1202067818	CWW	3/21/2010 5:33	963902	10-2200	1	LANL	USE	S
per0320109a	248520002	CWW	3/21/2010 5:39	963902	10-2200	1	LANL	DUSE-DL	S
per0320110a	WCLCCV	CWW	3/21/2010 5:46			1		USE	C
per0320111a	IPB013	CWW	3/21/2010 5:53			1		USE	B
per0320112a	WCLCRI	CWW	3/21/2010 5:59			1		USE	C
per0320113a	248520003	CWW	3/21/2010 6:06	963902	10-2200	1	LANL	USE	S
per0320114a	248520004	CWW	3/21/2010 6:13	963902	10-2200	1	LANL	DUSE-DL	S
per0320115a	248520005	CWW	3/21/2010 6:19	963902	10-2200	1	LANL	DUSE-RA	S
per0320116a	248520006	CWW	3/21/2010 6:26	963902	10-2200	1	LANL	USE	S
per0320117a	248520007	CWW	3/21/2010 6:32	963902	10-2200	1	LANL	USE	S
per0320118a	248520008	CWW	3/21/2010 6:39	963902	10-2200	1	LANL	USE	S
per0320119a	248520009	CWW	3/21/2010 6:45	963902	10-2200	1	LANL	USE	S
per0320120a	248520010	CWW	3/21/2010 6:52	963902	10-2200	1	LANL	USE	S
per0320121a	248520011	CWW	3/21/2010 6:58	963902	10-2200	1	LANL	USE	S
per0320122a	WCLCCV	CWW	3/21/2010 7:05			1		USE	C
per0320123a	IPB014	CWW	3/21/2010 7:12			1		USE	B
per0320124a	WCLCRI	CWW	3/21/2010 7:18			1		USE	C

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 03/21/10  
 Extr. Injection Volume: 20uL  
 Sequence Number: per032110a  
 Initial Calibration Date: 03/21/10

Method: EPA 6850-Modified  
 Int. Std.: UCL100210-01  
 Mobile Phase Lot#: 1278668, 1284736  
 Standard-Samp Reagent Lot#: 1271949

Reviewed BY: MTH  
 Date: 3/22/10  
 SOP: GL-OA-E-067 Rev.6  
 Alt Check Std. ID: WCL100318-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0321001a	IPB001	CWW	3/21/2010 14:08			1		USE	B
per0321002a	IPB001	CWW	3/21/2010 14:17			1		USE	B
per0321003a	WCLICAL-01	CWW	3/21/2010 14:26			1		USE	I
per0321004a	WCLICAL-02	CWW	3/21/2010 14:35			1		USE	I
per0321005a	WCLICAL-03	CWW	3/21/2010 14:44			1		USE	I
per0321006a	WCLICAL-04	CWW	3/21/2010 14:53			1		USE	I
per0321007a	WCLICAL-05	CWW	3/21/2010 15:02			1		USE	I
per0321008a	IPB002	CWW	3/21/2010 15:11			1		USE	B
per0321009a	WCLICV	CWW	3/21/2010 15:20			1		USE	C
per0321010a	IPB003	CWW	3/21/2010 15:29			1		USE	B
per0321011a	WCLCRI	CWW	3/21/2010 15:38			1		USE	C
per0321012a	248520002	CWW	3/21/2010 15:47	963902	10-2200	5	LANL	USE	S
per0321013a	248520004	CWW	3/21/2010 15:56	963902	10-2200	4	LANL	USE	S
per0321014a	248520005	CWW	3/21/2010 16:06	963902	10-2200	1	LANL	USE	S
per0321015a	IPB004	CWW	3/21/2010 16:15			1		USE	B
per0321016a	1202056620	CWW	3/21/2010 16:24	958976	VARIOUS	1	LANL	USE	S
per0321017a	1202056621	CWW	3/21/2010 16:33	958976	VARIOUS	1	LANL	USE	S
per0321018a	1202056624	CWW	3/21/2010 16:42	958976	VARIOUS	1	LANL	USE	S
per0321019a	248159001	CWW	3/21/2010 16:51	958976	10-2106	1	LANL	USE	S
per0321020a	248159002	CWW	3/21/2010 17:00	958976	10-2106	1	LANL	USE	S
per0321021a	248159003	CWW	3/21/2010 17:09	958976	10-2106	1	LANL	USE	S
per0321022a	WCLCCV	CWW	3/21/2010 17:18			1		USE	C
per0321023a	IPB005	CWW	3/21/2010 17:27			1		USE	B
per0321024a	WCLCRI	CWW	3/21/2010 17:36			1		USE	C
per0321025a	248159004	CWW	3/21/2010 17:45	958976	10-2106	1	LANL	USE	S
per0321026a	248159005	CWW	3/21/2010 17:54	958976	10-2106	1	LANL	USE	S
per0321027a	248159006	CWW	3/21/2010 18:03	958976	10-2106	1	LANL	USE	S
per0321028a	248163001	CWW	3/21/2010 18:12	958976	10-2103-1	1	LANL	USE	S
per0321029a	1202056622	CWW	3/21/2010 18:21	958976	10-2103-1	1	LANL	USE	S

per0321030a	1202056623	CWW	3/21/2010 18:30	958976	10-2103-1	1	LANL	USE	S
per0321031a	248163002	CWW	3/21/2010 18:39	958976	10-2103-1	1	LANL	USE	S
per0321032a	248163003	CWW	3/21/2010 18:48	958976	10-2103-1	1	LANL	USE	S
per0321033a	248163004	CWW	3/21/2010 18:57	958976	10-2103-1	1	LANL	USE	S
per0321034a	248163005	CWW	3/21/2010 19:06	958976	10-2103-1	1	LANL	USE	S
per0321035a	WCLCCV	CWW	3/21/2010 19:15			1		USE	C
per0321036a	IPB006	CWW	3/21/2010 19:25			1		USE	B
per0321037a	WCLCRI	CWW	3/21/2010 19:34			1		USE	C
per0321038a	248163006	CWW	3/21/2010 19:43	958976	10-2103-1	1	LANL	USE	S
per0321039a	248163007	CWW	3/21/2010 19:52	958976	10-2103-1	1	LANL	USE	S
per0321040a	248163008	CWW	3/21/2010 20:01	958976	10-2103-1	1	LANL	USE	S
per0321041a	248163009	CWW	3/21/2010 20:10	958976	10-2103-1	1	LANL	USE	S
per0321042a	248163010	CWW	3/21/2010 20:19	958976	10-2103-1	1	LANL	USE	S
per0321043a	248163011	CWW	3/21/2010 20:28	958976	10-2103-1	1	LANL	USE	S
per0321044a	248163012	CWW	3/21/2010 20:37	958976	10-2103-1	1	LANL	USE	S
per0321045a	248163013	CWW	3/21/2010 20:46	958976	10-2103-1	1	LANL	USE	S
per0321046a	248163014	CWW	3/21/2010 20:55	958976	10-2103-1	1	LANL	USE	S
per0321047a	WCLCCV	CWW	3/21/2010 21:04			1		USE	C
per0321048a	IPB007	CWW	3/21/2010 21:13			1		USE	B
per0321049a	WCLCRI	CWW	3/21/2010 21:22			1		USE	C
per0321050a	1202056698	CWW	3/21/2010 21:31	959034	VARIOUS	1	LANL	DUSE-RA	S
per0321051a	1202056699	CWW	3/21/2010 21:40	959034	VARIOUS	1	LANL	DUSE-RA	S
per0321052a	1202056702	CWW	3/21/2010 21:49	959034	VARIOUS	1	LANL	DUSE-RA	S
per0321053a	248241001	CWW	3/21/2010 21:59	959034	10-2135	1	LANL	DUSE-RA	S
per0321054a	248241002	CWW	3/21/2010 22:08	959034	10-2135	1	LANL	DUSE-RA	S
per0321055a	1202056700	CWW	3/21/2010 22:17	959034	10-2135	1	LANL	DUSE-RA	S
per0321056a	1202056701	CWW	3/21/2010 22:26	959034	10-2135	1	LANL	DUSE-RA	S
per0321057a	248241003	CWW	3/21/2010 22:35	959034	10-2135	1	LANL	DUSE-RA	S
per0321058a	248241004	CWW	3/21/2010 22:44	959034	10-2135	1	LANL	DUSE-RA	S
per0321059a	248241005	CWW	3/21/2010 22:53	959034	10-2135	1	LANL	DUSE-RA	S
per0321060a	WCLCCV	CWW	3/21/2010 23:02			1		DUSE	C
per0321061a	IPB008	CWW	3/21/2010 23:11			1		DUSE	B
per0321062a	WCLCRI	CWW	3/21/2010 23:20			1		DUSE	C

GEL Laboratories LLC  
Form GEL-DER

DER Report No.: 807755

Revision No.: 1

### DATA EXCEPTION REPORT

<b>Mo. Day Yr.</b> 22-MAR-10	<b>Division:</b> Federal	<b>Quality Criteria:</b> Specifications	<b>Type:</b> Process
<b>Instrument Type:</b> LC-MS/MS	<b>Test / Method:</b> SW846 6850 Modified	<b>Matrix Type:</b> Solid	<b>Client Code:</b> LANL010
<b>Batch ID:</b> 963902	<b>Sample Numbers:</b> See below		
<b>Potentially affected work order(s)(SDG):</b> 248418(10-2191), 248520(10-2200)			
<b>Application Issues:</b> Failed Recovery for MS/PS			
<b>Specification and Requirements Exception Description:</b>		<b>DER Disposition:</b>	
1. Low recoveries of Perchlorate and Perchlorate-101 were observed in 1202067817 (MS). The recoveries were 71% and 77%, respectively. The acceptance range is 75-125%.		1. The low recoveries may be the result of the background concentration present in the parent sample, 248520001, and non-homogeneity of the sample matrix.	

**Originator's Name:**  
Charles Wilson 22-MAR-10

**Data Validator/Group Leader:**  
Michael Penny 22-MAR-10

## 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.

# **Metals Analysis**



# Case Narrative

**Metals Fractional Narrative  
Los Alamos National Laboratory (LANL)  
SDG 10-2200**

**Sample Analysis**

<b>Sample ID</b>	<b>Client ID</b>
248520001	RE36-10-8288
248520002	RE36-10-8279
248520003	RE36-10-8277
248520004	RE36-10-8280
248520005	RE36-10-8278
248520006	RE36-10-8274
248520007	RE36-10-8291
248520008	RE36-10-8287
248520009	RE36-10-8273
248520010	RE36-10-8275
248520011	RE36-10-8276
1202065045	Method Blank (MB) ICP
1202065046	Laboratory Control Sample (LCS)
1202065049	248526001(RE36-10-8466L) Serial Dilution (SD)
1202065047	248526001(RE36-10-8466D) Sample Duplicate (DUP)
1202065048	248526001(RE36-10-8466S) Matrix Spike (MS)
1202065050	248526001(RE36-10-8466SD) Matrix Spike Duplicate (MSD)
1202065014	Method Blank (MB) ICP-MS
1202065015	Laboratory Control Sample (LCS)
1202065018	248526001(RE36-10-8466L) Serial Dilution (SD)
1202065016	248526001(RE36-10-8466D) Sample Duplicate (DUP)
1202065017	248526001(RE36-10-8466S) Matrix Spike (MS)
1202065024	248526001(RE36-10-8466SD) Matrix Spike Duplicate (MSD)
1202069779	Method Blank (MB) CVAA
1202069780	Laboratory Control Sample (LCS)
1202069783	248520001(RE36-10-8288L) Serial Dilution (SD)
1202069781	248520001(RE36-10-8288D) Sample Duplicate (DUP)
1202069782	248520001(RE36-10-8288S) Matrix Spike (MS)
1202069784	248520001(RE36-10-8288SD) Matrix Spike Duplicate (MSD)

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

#### **Method/Analysis Information**

<b>Analytical Batch:</b>	962575, 962569 and 964749
<b>Prep Batch :</b>	962573, 962563 and 964748
<b>Standard Operating Procedures:</b>	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
<b>Analytical Method:</b>	SW846 3050B/6010B, SW846 3050B/6020 and SW846 7471A
<b>Prep Method :</b>	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 7300 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 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 standards met the advisory control limits with the exceptions of beryllium and uranium that recovered outside of the advisory control 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 for all applicable analytes.

### **Continuing Calibration Verification (CCV) Requirements**

All continuing calibration verifications (CCV) bracketing this SDG met the 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 analyzed with this SDG met the acceptance criteria of percent recovery with the exception of antimony. Per the DOE-AL statement of work, page forty, silver and antimony are exempt from the re-digestion requirement for LCS failures.

### **Quality Control (QC) Sample Statement**

The following samples were selected as the quality control (QC) samples for this SDG: 248526001 (RE36-10-8466)-ICP and ICP-MS and 248520001 (RE36-10-8288)-CVAA.

### **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 barium, calcium, lead, magnesium, potassium, sodium and zinc 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 and potassium as indicated by the "N" qualifiers.

**MS/MSD Relative Percent Difference (RPD) Statement**

The relative percent difference (RPD) obtained from the designated matrix spike duplicate (MSD) is evaluated based on acceptance criteria of 20%. The RPD between qualifying elements results in the MS and MSD were within the acceptance limits of 20% with the exceptions of aluminum, barium, calcium, chromium, iron, lead, magnesium, manganese, potassium and zinc as indicated by the “\*” qualifiers.

**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 calcium and chromium 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 248520002 on the ICP and 248520004 on the ICP and CVAA required dilutions in order to bring over range concentrations within the linear calibration range of the instrument. The samples were diluted because silver was over the linear range. The samples in this SDG were diluted the standard 2x for solids on the ICPMS.

**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: DER ID 814413. 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: Yuk-Glen Elmore Date: 4.15.10

# **Sample Data Summary**

**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520001

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8288

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 84

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4610000	ug/Kg		8090	23800	23800	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-36-0	Antimony	1190	ug/Kg	U	393	1190	1190	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-38-2	Arsenic	1.06	mg/kg	J	0.23	1.15	1.15	2	MS	SKJ	04/14/10 01:05	100413-3	962569
7440-39-3	Barium	55800	ug/Kg		119	595	595	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-41-7	Beryllium	0.596	mg/kg		0.023	0.115	0.115	2	MS	SKJ	04/14/10 01:05	100413-3	962569
7440-43-9	Cadmium	595	ug/Kg	U	119	595	595	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-70-2	Calcium	2340000	ug/Kg		9520	29700	29700	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-47-3	Chromium	7820	ug/Kg		178	595	595	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-48-4	Cobalt	2360	ug/Kg		178	595	595	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-50-8	Copper	4120	ug/Kg		357	1190	1190	1	P	HSC	03/30/10 22:08	033010B-1	962575
7439-89-6	Iron	9280000	ug/Kg		9520	29700	29700	1	P	HSC	03/30/10 22:08	033010B-1	962575
7439-92-1	Lead	7430	ug/Kg		297	1190	1190	1	P	HSC	03/30/10 22:08	033010B-1	962575
7439-95-4	Magnesium	987000	ug/Kg		10100	35700	35700	1	P	HSC	03/30/10 22:08	033010B-1	962575
7439-96-5	Manganese	418000	ug/Kg		238	1190	1190	1	P	HSC	03/30/10 22:08	033010B-1	962575
7439-97-6	Mercury	37.8	ug/kg		4.38	12.9	12.9	1	AV	JXLI	03/17/10 13:53	031710S1-4	964749
7440-02-0	Nickel	4.48	mg/kg		0.115	0.46	0.46	2	MS	SKJ	04/14/10 01:05	100413-3	962569
7440-09-7	Potassium	964000	ug/Kg		7610	29700	29700	1	P	HSC	03/30/10 22:08	033010B-1	962575
7782-49-2	Selenium	1.15	mg/kg	U	0.575	1.15	1.15	2	MS	SKJ	04/14/10 01:05	100413-3	962569
7440-22-4	Silver	1030	ug/Kg		119	595	595	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-23-5	Sodium	78400	ug/Kg		8330	29700	29700	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-28-0	Thallium	0.230	mg/kg	U	0.069	0.23	0.23	2	MS	SKJ	04/14/10 01:05	100413-3	962569
7440-61-1	Uranium	0.60	mg/kg		0.0152	0.046	0.046	2	MS	SKJ	04/14/10 01:05	100413-3	962569
7440-62-2	Vanadium	10000	ug/Kg		119	595	595	1	P	HSC	03/30/10 22:08	033010B-1	962575
7440-66-6	Zinc	39800	ug/Kg		393	1190	1190	1	P	HSC	03/30/10 22:08	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.52	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.503	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.558	g	30	mL	03/16/10	TXB3



**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520002

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8279

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 92.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5830000	ug/Kg		6800	20000	20000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7440-36-0	Antimony	1000	ug/Kg	U	330	1000	1000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7440-38-2	Arsenic	3.57	mg/kg		0.208	1.04	1.04	2	MS	SKJ	04/14/10 01:09	100413-3	962569
7440-39-3	Barium	85600	ug/Kg		100	500	500	1	P	HSC	03/30/10 22:10	033010B-1	962575
7440-41-7	Beryllium	0.723	mg/kg		0.0208	0.104	0.104	2	MS	SKJ	04/14/10 01:09	100413-3	962569
7440-43-9	Cadmium	542	ug/Kg		100	500	500	1	P	HSC	03/30/10 22:10	033010B-1	962575
7440-70-2	Calcium	5420000	ug/Kg		8000	25000	25000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7440-47-3	Chromium	101000	ug/Kg		150	500	500	1	P	HSC	03/30/10 22:10	033010B-1	962575
7440-48-4	Cobalt	1580	ug/Kg		150	500	500	1	P	HSC	03/30/10 22:10	033010B-1	962575
7440-50-8	Copper	18500	ug/Kg		300	1000	1000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7439-89-6	Iron	9900000	ug/Kg		8000	25000	25000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7439-92-1	Lead	19400	ug/Kg		250	1000	1000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7439-95-4	Magnesium	1350000	ug/Kg		8500	30000	30000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7439-96-5	Manganese	356000	ug/Kg		200	1000	1000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7439-97-6	Mercury	582	ug/kg		4.14	12.2	12.2	1	AV	JXL1	03/17/10 14:03	031710S1-4	964749
7440-02-0	Nickel	3.65	mg/kg		0.104	0.416	0.416	2	MS	SKJ	04/14/10 01:09	100413-3	962569
7440-09-7	Potassium	1410000	ug/Kg		6400	25000	25000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7782-49-2	Selenium	1.04	mg/kg	U	0.521	1.04	1.04	2	MS	SKJ	04/14/10 01:09	100413-3	962569
7440-22-4	Silver	348000	ug/Kg		1000	5000	5000	10	P	HSC	04/01/10 04:59	033110B-2	962575
7440-23-5	Sodium	93100	ug/Kg		7000	25000	25000	1	P	HSC	03/30/10 22:10	033010B-1	962575
7440-28-0	Thallium	0.137	mg/kg	J	0.0625	0.208	0.208	2	MS	SKJ	04/14/10 01:09	100413-3	962569
7440-61-1	Uranium	5.2	mg/kg		0.0137	0.0416	0.0416	2	MS	SKJ	04/14/10 01:09	100413-3	962569
7440-62-2	Vanadium	22500	ug/Kg		100	500	500	1	P	HSC	03/30/10 22:10	033010B-1	962575
7440-66-6	Zinc	89700	ug/Kg		330	1000	1000	1	P	HSC	03/30/10 22:10	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.517	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.538	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.53	g	30	mL	03/16/10	TXB3

**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520003

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8277

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 75

CAS No.	Analyte	Result	Units	Qnal	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4970000	ug/Kg		8290	24400	24400	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-36-0	Antimony	1220	ug/Kg	U	402	1220	1220	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-38-2	Arsenic	1.28	mg/kg	J	0.268	1.34	1.34	2	MS	SKJ	04/14/10 01:13	100413-3	962569
7440-39-3	Barium	63100	ug/Kg		122	609	609	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-41-7	Beryllium	0.718	mg/kg		0.0268	0.134	0.134	2	MS	SKJ	04/14/10 01:13	100413-3	962569
7440-43-9	Cadmium	609	ug/Kg	U	122	609	609	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-70-2	Calcium	2430000	ug/Kg		9750	30500	30500	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-47-3	Chromium	11300	ug/Kg		183	609	609	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-48-4	Cobalt	2420	ug/Kg		183	609	609	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-50-8	Copper	4750	ug/Kg		366	1220	1220	1	P	HSC	03/30/10 22:12	033010B-1	962575
7439-89-6	Iron	9830000	ug/Kg		9750	30500	30500	1	P	HSC	03/30/10 22:12	033010B-1	962575
7439-92-1	Lead	9310	ug/Kg		305	1220	1220	1	P	HSC	03/30/10 22:12	033010B-1	962575
7439-95-4	Magnesium	1050000	ug/Kg		10400	36600	36600	1	P	HSC	03/30/10 22:12	033010B-1	962575
7439-96-5	Manganese	340000	ug/Kg		244	1220	1220	1	P	HSC	03/30/10 22:12	033010B-1	962575
7439-97-6	Mercury	53.1	ug/kg		4.88	14.4	14.4	1	AV	JXL1	03/17/10 14:05	031710S1-4	964749
7440-02-0	Nickel	4.27	mg/kg		0.134	0.535	0.535	2	MS	SKJ	04/14/10 01:13	100413-3	962569
7440-09-7	Potassium	1040000	ug/Kg		7800	30500	30500	1	P	HSC	03/30/10 22:12	033010B-1	962575
7782-49-2	Selenium	1.34	mg/kg	U	0.669	1.34	1.34	2	MS	SKJ	04/14/10 01:13	100413-3	962569
7440-22-4	Silver	609	ug/Kg	U	122	609	609	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-23-5	Sodium	76500	ug/Kg		8530	30500	30500	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-28-0	Thallium	0.268	mg/kg	U	0.0803	0.268	0.268	2	MS	SKJ	04/14/10 01:13	100413-3	962569
7440-61-1	Uranium	1.72	mg/kg		0.0177	0.0535	0.0535	2	MS	SKJ	04/14/10 01:13	100413-3	962569
7440-62-2	Vanadium	10000	ug/Kg		122	609	609	1	P	HSC	03/30/10 22:12	033010B-1	962575
7440-66-6	Zinc	49900	ug/Kg		402	1220	1220	1	P	HSC	03/30/10 22:12	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.501	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.55	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.56	g	30	mL	03/16/10	TXB3

**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520004

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8280

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 90.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6040000	ug/Kg		7290	21400	21400	1	P	HSC	03/30/10 22:14	033010B-1	962575
7440-36-0	Antimony	1070	ug/Kg	U	354	1070	1070	1	P	HSC	03/30/10 22:14	033010B-1	962575
7440-38-2	Arsenic	4.12	mg/kg		0.215	1.07	1.07	2	MS	SKJ	04/14/10 01:25	100413-3	962569
7440-39-3	Barium	84900	ug/Kg		107	536	536	1	P	HSC	03/30/10 22:14	033010B-1	962575
7440-41-7	Beryllium	0.662	mg/kg		0.0215	0.107	0.107	2	MS	SKJ	04/14/10 01:25	100413-3	962569
7440-43-9	Cadmium	1090	ug/Kg		107	536	536	1	P	HSC	03/30/10 22:14	033010B-1	962575
7440-70-2	Calcium	5290000	ug/Kg		8580	26800	26800	1	P	HSC	03/30/10 22:14	033010B-1	962575
7440-47-3	Chromium	90200	ug/Kg		161	536	536	1	P	HSC	03/30/10 22:14	033010B-1	962575
7440-48-4	Cobalt	1820	ug/Kg		161	536	536	1	P	HSC	03/30/10 22:14	033010B-1	962575
7440-50-8	Copper	27800	ug/Kg		322	1070	1070	1	P	HSC	03/30/10 22:14	033010B-1	962575
7439-89-6	Iron	8370000	ug/Kg		8580	26800	26800	1	P	HSC	03/30/10 22:14	033010B-1	962575
7439-92-1	Lead	21800	ug/Kg		268	1070	1070	1	P	HSC	03/30/10 22:14	033010B-1	962575
7439-95-4	Magnesium	1340000	ug/Kg		9110	32200	32200	1	P	HSC	03/30/10 22:14	033010B-1	962575
7439-96-5	Manganese	335000	ug/Kg		214	1070	1070	1	P	HSC	03/30/10 22:14	033010B-1	962575
7439-97-6	Mercury	815	ug/kg		8.39	24.7	24.7	2	AV	JXL1	03/17/10 14:07	031710S1-4	964749
7440-02-0	Nickel	3.85	mg/kg		0.107	0.43	0.43	2	MS	SKJ	04/14/10 01:25	100413-3	962569
7440-09-7	Potassium	1540000	ug/Kg		6860	26800	26800	1	P	HSC	03/30/10 22:14	033010B-1	962575
7782-49-2	Selenium	1.07	mg/kg	U	0.537	1.07	1.07	2	MS	SKJ	04/14/10 01:25	100413-3	962569
7440-22-4	Silver	338000	ug/Kg		1070	5360	5360	10	P	HSC	04/01/10 05:01	033110B-2	962575
7440-23-5	Sodium	85000	ug/Kg		7510	26800	26800	1	P	HSC	03/30/10 22:14	033010B-1	962575
7440-28-0	Thallium	0.163	mg/kg	J	0.0645	0.215	0.215	2	MS	SKJ	04/14/10 01:25	100413-3	962569
7440-61-1	Uranium	5.96	mg/kg		0.0142	0.043	0.043	2	MS	SKJ	04/14/10 01:25	100413-3	962569
7440-62-2	Vanadium	23300	ug/Kg		107	536	536	1	P	HSC	03/30/10 22:14	033010B-1	962575
7440-66-6	Zinc	74900	ug/Kg		354	1070	1070	1	P	HSC	03/30/10 22:14	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.514	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.515	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.537	g	30	mL	03/16/10	TXB3

**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520005

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8278

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 93.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4510000	ug/Kg		7130	21000	21000	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-36-0	Antimony	1050	ug/Kg	U	346	1050	1050	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-38-2	Arsenic	1.16	mg/kg		0.209	1.04	1.04	2	MS	SKJ	04/14/10 01:29	100413-3	962569
7440-39-3	Barium	59700	ug/Kg		105	524	524	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-41-7	Beryllium	0.569	mg/kg		0.0209	0.104	0.104	2	MS	SKJ	04/14/10 01:29	100413-3	962569
7440-43-9	Cadmium	524	ug/Kg	U	105	524	524	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-70-2	Calcium	1290000	ug/Kg		8390	26200	26200	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-47-3	Chromium	4280	ug/Kg		157	524	524	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-48-4	Cobalt	2710	ug/Kg		157	524	524	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-50-8	Copper	3670	ug/Kg		315	1050	1050	1	P	HSC	03/30/10 22:21	033010B-1	962575
7439-89-6	Iron	10200000	ug/Kg		8390	26200	26200	1	P	HSC	03/30/10 22:21	033010B-1	962575
7439-92-1	Lead	7220	ug/Kg		262	1050	1050	1	P	HSC	03/30/10 22:21	033010B-1	962575
7439-95-4	Magnesium	901000	ug/Kg		8920	31500	31500	1	P	HSC	03/30/10 22:21	033010B-1	962575
7439-96-5	Manganese	365000	ug/Kg		210	1050	1050	1	P	HSC	03/30/10 22:21	033010B-1	962575
7439-97-6	Mercury	9.27	ug/kg	J	4.21	12.4	12.4	1	AV	JXL1	03/17/10 14:13	031710S1-4	964749
7440-02-0	Nickel	3.75	mg/kg		0.104	0.417	0.417	2	MS	SKJ	04/14/10 01:29	100413-3	962569
7440-09-7	Potassium	861000	ug/Kg		6710	26200	26200	1	P	HSC	03/30/10 22:21	033010B-1	962575
7782-49-2	Selenium	1.04	mg/kg	U	0.521	1.04	1.04	2	MS	SKJ	04/14/10 01:29	100413-3	962569
7440-22-4	Silver	524	ug/Kg	U	105	524	524	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-23-5	Sodium	60300	ug/Kg		7340	26200	26200	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-28-0	Thallium	0.209	mg/kg	U	0.0626	0.209	0.209	2	MS	SKJ	04/14/10 01:29	100413-3	962569
7440-61-1	Uranium	0.437	mg/kg		0.0138	0.0417	0.0417	2	MS	SKJ	04/14/10 01:29	100413-3	962569
7440-62-2	Vanadium	12000	ug/Kg		105	524	524	1	P	HSC	03/30/10 22:21	033010B-1	962575
7440-66-6	Zinc	40100	ug/Kg		346	1050	1050	1	P	HSC	03/30/10 22:21	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.512	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.509	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.517	g	30	mL	03/16/10	TXB3

**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520006

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8274

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 90

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4360000	ug/Kg		6500	19100	19100	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-36-0	Antimony	955	ug/Kg	U	315	955	955	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-38-2	Arsenic	1.43	mg/kg		0.191	0.955	0.955	2	MS	SKJ	04/14/10 01:33	100413-3	962569
7440-39-3	Barium	66600	ug/Kg		95.5	478	478	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-41-7	Beryllium	0.680	mg/kg		0.0191	0.0955	0.0955	2	MS	SKJ	04/14/10 01:33	100413-3	962569
7440-43-9	Cadmium	478	ug/Kg	U	95.5	478	478	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-70-2	Calcium	1860000	ug/Kg		7640	23900	23900	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-47-3	Chromium	10700	ug/Kg		143	478	478	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-48-4	Cobalt	2720	ug/Kg		143	478	478	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-50-8	Copper	5440	ug/Kg		287	955	955	1	P	HSC	03/30/10 22:23	033010B-1	962575
7439-89-6	Iron	9200000	ug/Kg		7640	23900	23900	1	P	HSC	03/30/10 22:23	033010B-1	962575
7439-92-1	Lead	9260	ug/Kg		239	955	955	1	P	HSC	03/30/10 22:23	033010B-1	962575
7439-95-4	Magnesium	972000	ug/Kg		8120	28700	28700	1	P	HSC	03/30/10 22:23	033010B-1	962575
7439-96-5	Manganese	493000	ug/Kg		191	955	955	1	P	HSC	03/30/10 22:23	033010B-1	962575
7439-97-6	Mercury	71.3	ug/kg		4.14	12.2	12.2	1	AV	JXL1	03/17/10 14:15	031710S1-4	964749
7440-02-0	Nickel	4.4	mg/kg		0.0955	0.382	0.382	2	MS	SKJ	04/14/10 01:33	100413-3	962569
7440-09-7	Potassium	961000	ug/Kg		6110	23900	23900	1	P	HSC	03/30/10 22:23	033010B-1	962575
7782-49-2	Selenium	0.955	mg/kg	U	0.478	0.955	0.955	2	MS	SKJ	04/14/10 01:33	100413-3	962569
7440-22-4	Silver	2960	ug/Kg		95.5	478	478	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-23-5	Sodium	60600	ug/Kg		6690	23900	23900	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-28-0	Thallium	0.0862	mg/kg	J	0.0573	0.191	0.191	2	MS	SKJ	04/14/10 01:33	100413-3	962569
7440-61-1	Uranium	1.17	mg/kg		0.0126	0.0382	0.0382	2	MS	SKJ	04/14/10 01:33	100413-3	962569
7440-62-2	Vanadium	10400	ug/Kg		95.5	478	478	1	P	HSC	03/30/10 22:23	033010B-1	962575
7440-66-6	Zinc	44800	ug/Kg		315	955	955	1	P	HSC	03/30/10 22:23	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.583	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.583	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.549	g	30	mL	03/16/10	TXB3

**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520007

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8291

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 71

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4990000	ug/Kg		8960	26400	26400	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-36-0	Antimony	1320	ug/Kg	U	435	1320	1320	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-38-2	Arsenic	1.6	mg/kg		0.267	1.33	1.33	2	MS	SKJ	04/14/10 01:38	100413-3	962569
7440-39-3	Barium	103000	ug/Kg		132	659	659	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-41-7	Beryllium	0.653	mg/kg		0.0267	0.133	0.133	2	MS	SKJ	04/14/10 01:38	100413-3	962569
7440-43-9	Cadmium	659	ug/Kg	U	132	659	659	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-70-2	Calcium	3690000	ug/Kg		10500	32900	32900	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-47-3	Chromium	9220	ug/Kg		198	659	659	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-48-4	Cobalt	2630	ug/Kg		198	659	659	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-50-8	Copper	8460	ug/Kg		395	1320	1320	1	P	HSC	03/30/10 22:25	033010B-1	962575
7439-89-6	Iron	8900000	ug/Kg		10500	32900	32900	1	P	HSC	03/30/10 22:25	033010B-1	962575
7439-92-1	Lead	14700	ug/Kg		329	1320	1320	1	P	HSC	03/30/10 22:25	033010B-1	962575
7439-95-4	Magnesium	1120000	ug/Kg		11200	39500	39500	1	P	HSC	03/30/10 22:25	033010B-1	962575
7439-96-5	Manganese	615000	ug/Kg		264	1320	1320	1	P	HSC	03/30/10 22:25	033010B-1	962575
7439-97-6	Mercury	198	ug/kg		5.6	16.5	16.5	1	AV	JXL1	03/17/10 14:17	031710S1-4	964749
7440-02-0	Nickel	4.7	mg/kg		0.133	0.533	0.533	2	MS	SKJ	04/14/10 01:38	100413-3	962569
7440-09-7	Potassium	1200000	ug/Kg		8430	32900	32900	1	P	HSC	03/30/10 22:25	033010B-1	962575
7782-49-2	Selenium	1.33	mg/kg	U	0.666	1.33	1.33	2	MS	SKJ	04/14/10 01:38	100413-3	962569
7440-22-4	Silver	5230	ug/Kg		132	659	659	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-23-5	Sodium	68800	ug/Kg		9220	32900	32900	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-28-0	Thallium	0.106	mg/kg	J	0.08	0.267	0.267	2	MS	SKJ	04/14/10 01:38	100413-3	962569
7440-61-1	Uranium	2.84	mg/kg		0.0176	0.0533	0.0533	2	MS	SKJ	04/14/10 01:38	100413-3	962569
7440-62-2	Vanadium	10600	ug/Kg		132	659	659	1	P	HSC	03/30/10 22:25	033010B-1	962575
7440-66-6	Zinc	46200	ug/Kg		435	1320	1320	1	P	HSC	03/30/10 22:25	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.528	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.534	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.513	g	30	mL	03/16/10	TXB3

**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520008

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8287

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 67

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	7420000	ug/Kg		9510	28000	28000	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-36-0	Antimony	1400	ug/Kg	U	462	1400	1400	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-38-2	Arsenic	1.68	mg/kg		0.276	1.38	1.38	2	MS	SKJ	04/14/10 01:42	100413-3	962569
7440-39-3	Barium	116000	ug/Kg		140	700	700	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-41-7	Beryllium	0.680	mg/kg		0.0276	0.138	0.138	2	MS	SKJ	04/14/10 01:42	100413-3	962569
7440-43-9	Cadmium	700	ug/Kg	U	140	700	700	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-70-2	Calcium	4470000	ug/Kg		11200	35000	35000	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-47-3	Chromium	21100	ug/Kg		210	700	700	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-48-4	Cobalt	3690	ug/Kg		210	700	700	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-50-8	Copper	9220	ug/Kg		420	1400	1400	1	P	HSC	03/30/10 22:27	033010B-1	962575
7439-89-6	Iron	12800000	ug/Kg		11200	35000	35000	1	P	HSC	03/30/10 22:27	033010B-1	962575
7439-92-1	Lead	14600	ug/Kg		350	1400	1400	1	P	HSC	03/30/10 22:27	033010B-1	962575
7439-95-4	Magnesium	1690000	ug/Kg		11900	42000	42000	1	P	HSC	03/30/10 22:27	033010B-1	962575
7439-96-5	Manganese	860000	ug/Kg		280	1400	1400	1	P	HSC	03/30/10 22:27	033010B-1	962575
7439-97-6	Mercury	139	ug/kg		6.08	17.9	17.9	1	AV	JXL1	03/17/10 14:19	031710S1-4	964749
7440-02-0	Nickel	5.89	mg/kg		0.138	0.551	0.551	2	MS	SKJ	04/14/10 01:42	100413-3	962569
7440-09-7	Potassium	1790000	ug/Kg		8950	35000	35000	1	P	HSC	03/30/10 22:27	033010B-1	962575
7782-49-2	Selenium	1.38	mg/kg	U	0.689	1.38	1.38	2	MS	SKJ	04/14/10 01:42	100413-3	962569
7440-22-4	Silver	6490	ug/Kg		140	700	700	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-23-5	Sodium	102000	ug/Kg		9790	35000	35000	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-28-0	Thallium	0.0995	mg/kg	J	0.0827	0.276	0.276	2	MS	SKJ	04/14/10 01:42	100413-3	962569
7440-61-1	Uranium	2.2	mg/kg		0.0182	0.0551	0.0551	2	MS	SKJ	04/14/10 01:42	100413-3	962569
7440-62-2	Vanadium	15400	ug/Kg		140	700	700	1	P	HSC	03/30/10 22:27	033010B-1	962575
7440-66-6	Zinc	56700	ug/Kg		462	1400	1400	1	P	HSC	03/30/10 22:27	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.541	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.533	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.5	g	30	mL	03/16/10	TXB3

**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520009

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8273

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 71

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4620000	ug/Kg		8810	25900	25900	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-36-0	Antimony	1300	ug/Kg	U	427	1300	1300	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-38-2	Arsenic	1.84	mg/kg		0.278	1.39	1.39	2	MS	SKJ	04/14/10 01:46	100413-3	962569
7440-39-3	Barium	101000	ug/Kg		130	648	648	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-41-7	Beryllium	0.743	mg/kg		0.0278	0.139	0.139	2	MS	SKJ	04/14/10 01:46	100413-3	962569
7440-43-9	Cadmium	648	ug/Kg	U	130	648	648	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-70-2	Calcium	3730000	ug/Kg		10400	32400	32400	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-47-3	Chromium	27800	ug/Kg		194	648	648	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-48-4	Cobalt	2700	ug/Kg		194	648	648	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-50-8	Copper	8470	ug/Kg		389	1300	1300	1	P	HSC	03/30/10 22:29	033010B-1	962575
7439-89-6	Iron	8650000	ug/Kg		10400	32400	32400	1	P	HSC	03/30/10 22:29	033010B-1	962575
7439-92-1	Lead	13900	ug/Kg		324	1300	1300	1	P	HSC	03/30/10 22:29	033010B-1	962575
7439-95-4	Magnesium	1050000	ug/Kg		11000	38900	38900	1	P	HSC	03/30/10 22:29	033010B-1	962575
7439-96-5	Manganese	576000	ug/Kg		259	1300	1300	1	P	HSC	03/30/10 22:29	033010B-1	962575
7439-97-6	Mercury	232	ug/kg		5.6	16.5	16.5	1	AV	JXL1	03/17/10 14:21	031710S1-4	964749
7440-02-0	Nickel	5.55	mg/kg		0.139	0.557	0.557	2	MS	SKJ	04/14/10 01:46	100413-3	962569
7440-09-7	Potassium	1120000	ug/Kg		8290	32400	32400	1	P	HSC	03/30/10 22:29	033010B-1	962575
7782-49-2	Selenium	1.39	mg/kg	U	0.696	1.39	1.39	2	MS	SKJ	04/14/10 01:46	100413-3	962569
7440-22-4	Silver	4320	ug/Kg		130	648	648	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-23-5	Sodium	69400	ug/Kg		9070	32400	32400	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-28-0	Thallium	0.126	mg/kg	J	0.0835	0.278	0.278	2	MS	SKJ	04/14/10 01:46	100413-3	962569
7440-61-1	Uranium	3.89	mg/kg		0.0184	0.0557	0.0557	2	MS	SKJ	04/14/10 01:46	100413-3	962569
7440-62-2	Vanadium	10600	ug/Kg		130	648	648	1	P	HSC	03/30/10 22:29	033010B-1	962575
7440-66-6	Zinc	45000	ug/Kg		427	1300	1300	1	P	HSC	03/30/10 22:29	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.506	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.544	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.513	g	30	mL	03/16/10	TXB3



**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520010

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8275

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 60

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4050000	ug/Kg		10100	29800	29800	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-36-0	Antimony	1490	ug/Kg	U	491	1490	1490	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-38-2	Arsenic	1.59	mg/kg		0.311	1.56	1.56	2	MS	SKJ	04/14/10 01:50	100413-3	962569
7440-39-3	Barium	75400	ug/Kg		149	745	745	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-41-7	Beryllium	0.710	mg/kg		0.0311	0.156	0.156	2	MS	SKJ	04/14/10 01:50	100413-3	962569
7440-43-9	Cadmium	745	ug/Kg	U	149	745	745	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-70-2	Calcium	2820000	ug/Kg		11900	37200	37200	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-47-3	Chromium	9500	ug/Kg		223	745	745	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-48-4	Cobalt	2130	ug/Kg		223	745	745	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-50-8	Copper	4890	ug/Kg		447	1490	1490	1	P	HSC	03/30/10 22:31	033010B-1	962575
7439-89-6	Iron	8650000	ug/Kg		11900	37200	37200	1	P	HSC	03/30/10 22:31	033010B-1	962575
7439-92-1	Lead	9850	ug/Kg		372	1490	1490	1	P	HSC	03/30/10 22:31	033010B-1	962575
7439-95-4	Magnesium	932000	ug/Kg		12700	44700	44700	1	P	HSC	03/30/10 22:31	033010B-1	962575
7439-96-5	Manganese	487000	ug/Kg		298	1490	1490	1	P	HSC	03/30/10 22:31	033010B-1	962575
7439-97-6	Mercury	109	ug/kg		6.63	19.5	19.5	1	AV	JXL1	03/17/10 14:23	031710S1-4	964749
7440-02-0	Nickel	5.75	mg/kg		0.156	0.622	0.622	2	MS	SKJ	04/14/10 01:50	100413-3	962569
7440-09-7	Potassium	979000	ug/Kg		9530	37200	37200	1	P	HSC	03/30/10 22:31	033010B-1	962575
7782-49-2	Selenium	1.56	mg/kg	U	0.778	1.56	1.56	2	MS	SKJ	04/14/10 01:50	100413-3	962569
7440-22-4	Silver	663	ug/Kg	J	149	745	745	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-23-5	Sodium	59100	ug/Kg		10400	37200	37200	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-28-0	Thallium	0.311	mg/kg	U	0.0933	0.311	0.311	2	MS	SKJ	04/14/10 01:50	100413-3	962569
7440-61-1	Uranium	2.26	mg/kg		0.0205	0.0622	0.0622	2	MS	SKJ	04/14/10 01:50	100413-3	962569
7440-62-2	Vanadium	9190	ug/Kg		149	745	745	1	P	HSC	03/30/10 22:31	033010B-1	962575
7440-66-6	Zinc	41600	ug/Kg		491	1490	1490	1	P	HSC	03/30/10 22:31	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.537	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.561	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.514	g	30	mL	03/16/10	TXB3

**METALS**  
-1-  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-2200

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248520011

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-8276

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 85

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	7270000	ug/Kg		7720	22700	22700	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-36-0	Antimony	1140	ug/Kg	U	375	1140	1140	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-38-2	Arsenic	1.36	mg/kg		0.219	1.1	1.1	2	MS	SKJ	04/14/10 02:02	100413-3	962569
7440-39-3	Barium	82100	ug/Kg		114	568	568	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-41-7	Beryllium	0.705	mg/kg		0.0219	0.11	0.11	2	MS	SKJ	04/14/10 02:02	100413-3	962569
7440-43-9	Cadmium	568	ug/Kg	U	114	568	568	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-70-2	Calcium	2700000	ug/Kg		9080	28400	28400	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-47-3	Chromium	10700	ug/Kg		170	568	568	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-48-4	Cobalt	4310	ug/Kg		170	568	568	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-50-8	Copper	5580	ug/Kg		341	1140	1140	1	P	HSC	03/30/10 22:33	033010B-1	962575
7439-89-6	Iron	12000000	ug/Kg		9080	28400	28400	1	P	HSC	03/30/10 22:33	033010B-1	962575
7439-92-1	Lead	9400	ug/Kg		284	1140	1140	1	P	HSC	03/30/10 22:33	033010B-1	962575
7439-95-4	Magnesium	1660000	ug/Kg		9650	34100	34100	1	P	HSC	03/30/10 22:33	033010B-1	962575
7439-96-5	Manganese	365000	ug/Kg		227	1140	1140	1	P	HSC	03/30/10 22:33	033010B-1	962575
7439-97-6	Mercury	33.6	ug/kg		4.55	13.4	13.4	1	AV	JXL1	03/17/10 14:25	031710S1-4	964749
7440-02-0	Nickel	5.51	mg/kg		0.11	0.439	0.439	2	MS	SKJ	04/14/10 02:02	100413-3	962569
7440-09-7	Potassium	1540000	ug/Kg		7260	28400	28400	1	P	HSC	03/30/10 22:33	033010B-1	962575
7782-49-2	Selenium	1.1	mg/kg	U	0.548	1.1	1.1	2	MS	SKJ	04/14/10 02:02	100413-3	962569
7440-22-4	Silver	220	ug/Kg	J	114	568	568	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-23-5	Sodium	68100	ug/Kg		7950	28400	28400	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-28-0	Thallium	0.104	mg/kg	J	0.0658	0.219	0.219	2	MS	SKJ	04/14/10 02:02	100413-3	962569
7440-61-1	Uranium	0.578	mg/kg		0.0145	0.0439	0.0439	2	MS	SKJ	04/14/10 02:02	100413-3	962569
7440-62-2	Vanadium	17800	ug/Kg		114	568	568	1	P	HSC	03/30/10 22:33	033010B-1	962575
7440-66-6	Zinc	39800	ug/Kg		375	1140	1140	1	P	HSC	03/30/10 22:33	033010B-1	962575

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
962569	962563	SW846 3050B	0.534	g	50	mL	03/16/10	AXG2
962575	962573	SW846 3050B	0.516	g	50	mL	03/16/10	AXG2
964749	964748	SW846 7471A Prep	0.525	g	30	mL	03/16/10	TXB3

# **Quality Control Summary**

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

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA4

<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	5.28	ug/L	5	ug/L	105.5	90.0 – 110.0	AV	17-MAR-10 12:37	031710S1-4
	Aluminum	5280	ug/L	5000	ug/L	105.7	90.0 – 110.0	P	30-MAR-10 15:16	033010B-1
	Antimony	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	30-MAR-10 15:16	033010B-1
	Barium	520	ug/L	500	ug/L	104	90.0 – 110.0	P	30-MAR-10 15:16	033010B-1
	Cadmium	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	30-MAR-10 15:16	033010B-1
	Calcium	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	30-MAR-10 15:16	033010B-1
	Chromium	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	30-MAR-10 15:16	033010B-1
	Cobalt	521	ug/L	500	ug/L	104.3	90.0 – 110.0	P	30-MAR-10 15:16	033010B-1
	Copper	523	ug/L	500	ug/L	104.6	90.0 – 110.0	P	30-MAR-10 15:16	033010B-1
	Iron	5180	ug/L	5000	ug/L	103.5	90.0 – 110.0	P	30-MAR-10 15:16	033010B-1
	Lead	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	30-MAR-10 15:16	033010B-1
	Magnesium	5450	ug/L	5000	ug/L	109	90.0 – 110.0	P	30-MAR-10 15:16	033010B-1
	Manganese	527	ug/L	500	ug/L	105.5	90.0 – 110.0	P	30-MAR-10 15:16	033010B-1
	Potassium	2600	ug/L	2500	ug/L	104.1	90.0 – 110.0	P	30-MAR-10 15:16	033010B-1
	Silver	267	ug/L	250	ug/L	106.8	90.0 – 110.0	P	30-MAR-10 15:16	033010B-1
	Sodium	2600	ug/L	2500	ug/L	104	90.0 – 110.0	P	30-MAR-10 15:16	033010B-1
	Vanadium	524	ug/L	500	ug/L	104.8	90.0 – 110.0	P	30-MAR-10 15:16	033010B-1
	Zinc	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	30-MAR-10 15:16	033010B-1
	Silver	258	ug/L	250	ug/L	103.3	90.0 – 110.0	P	31-MAR-10 18:47	033110B-2
	Arsenic	50.6	ug/L	50	ug/L	101.2	90.0 – 110.0	MS	13-APR-10 19:08	100413-3
	Beryllium	50.5	ug/L	50	ug/L	101	90.0 – 110.0	MS	13-APR-10 19:08	100413-3
	Nickel	51.4	ug/L	50	ug/L	102.9	90.0 – 110.0	MS	13-APR-10 19:08	100413-3
	Selenium	50.4	ug/L	50	ug/L	100.7	90.0 – 110.0	MS	13-APR-10 19:08	100413-3
	Thallium	50.7	ug/L	50	ug/L	101.4	90.0 – 110.0	MS	13-APR-10 19:08	100413-3
	Uranium	49.8	ug/L	50	ug/L	99.5	90.0 – 110.0	MS	13-APR-10 19:08	100413-3
CCV01										
	Mercury	5.56	ug/L	5	ug/L	111.2	80.0 – 120.0	AV	17-MAR-10 12:43	031710S1-4
	Aluminum	5060	ug/L	5000	ug/L	101.1	90.0 – 110.0	P	30-MAR-10 15:38	033010B-1
	Antimony	508	ug/L	500	ug/L	101.5	90.0 – 110.0	P	30-MAR-10 15:38	033010B-1
	Barium	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	30-MAR-10 15:38	033010B-1

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

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA4

<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>
	Cadmium	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	30-MAR-10 15:38	033010B-1
	Calcium	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	30-MAR-10 15:38	033010B-1
	Chromium	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	30-MAR-10 15:38	033010B-1
	Cobalt	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	30-MAR-10 15:38	033010B-1
	Copper	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	30-MAR-10 15:38	033010B-1
	Iron	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	30-MAR-10 15:38	033010B-1
	Lead	513	ug/L	500	ug/L	102.5	90.0 – 110.0	P	30-MAR-10 15:38	033010B-1
	Magnesium	5180	ug/L	5000	ug/L	103.5	90.0 – 110.0	P	30-MAR-10 15:38	033010B-1
	Manganese	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	30-MAR-10 15:38	033010B-1
	Potassium	5130	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	30-MAR-10 15:38	033010B-1
	Silver	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	30-MAR-10 15:38	033010B-1
	Sodium	10100	ug/L	10000	ug/L	100.9	90.0 – 110.0	P	30-MAR-10 15:38	033010B-1
	Vanadium	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	30-MAR-10 15:38	033010B-1
	Zinc	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	30-MAR-10 15:38	033010B-1
	Silver	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	31-MAR-10 18:59	033110B-2
	Arsenic	50.7	ug/L	50	ug/L	101.4	90.0 – 110.0	MS	13-APR-10 19:28	100413-3
	Beryllium	52.3	ug/L	50	ug/L	104.6	90.0 – 110.0	MS	13-APR-10 19:28	100413-3
	Nickel	50.1	ug/L	50	ug/L	100.2	90.0 – 110.0	MS	13-APR-10 19:28	100413-3
	Selenium	51.8	ug/L	50	ug/L	103.5	90.0 – 110.0	MS	13-APR-10 19:28	100413-3
	Thallium	49.4	ug/L	50	ug/L	98.7	90.0 – 110.0	MS	13-APR-10 19:28	100413-3
	Uranium	50	ug/L	50	ug/L	100	90.0 – 110.0	MS	13-APR-10 19:28	100413-3
CCV02	Mercury	5.58	ug/L	5	ug/L	111.5	80.0 – 120.0	AV	17-MAR-10 13:07	031710S1-4
	Aluminum	5110	ug/L	5000	ug/L	102.2	90.0 – 110.0	P	30-MAR-10 15:54	033010B-1
	Antimony	510	ug/L	500	ug/L	102.1	90.0 – 110.0	P	30-MAR-10 15:54	033010B-1
	Barium	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	30-MAR-10 15:54	033010B-1
	Cadmium	510	ug/L	500	ug/L	101.9	90.0 – 110.0	P	30-MAR-10 15:54	033010B-1
	Calcium	5150	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	30-MAR-10 15:54	033010B-1
	Chromium	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	30-MAR-10 15:54	033010B-1
	Cobalt	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	30-MAR-10 15:54	033010B-1

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

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA4

<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	506	ug/L	500	ug/L	101.2	90.0 - 110.0	P	30-MAR-10 15:54	033010B-1
	Iron	5120	ug/L	5000	ug/L	102.4	90.0 - 110.0	P	30-MAR-10 15:54	033010B-1
	Lead	513	ug/L	500	ug/L	102.6	90.0 - 110.0	P	30-MAR-10 15:54	033010B-1
	Magnesium	5250	ug/L	5000	ug/L	105.1	90.0 - 110.0	P	30-MAR-10 15:54	033010B-1
	Manganese	509	ug/L	500	ug/L	101.7	90.0 - 110.0	P	30-MAR-10 15:54	033010B-1
	Potassium	5160	ug/L	5000	ug/L	103.2	90.0 - 110.0	P	30-MAR-10 15:54	033010B-1
	Silver	509	ug/L	500	ug/L	101.8	90.0 - 110.0	P	30-MAR-10 15:54	033010B-1
	Sodium	10200	ug/L	10000	ug/L	101.5	90.0 - 110.0	P	30-MAR-10 15:54	033010B-1
	Vanadium	510	ug/L	500	ug/L	102	90.0 - 110.0	P	30-MAR-10 15:54	033010B-1
	Zinc	507	ug/L	500	ug/L	101.3	90.0 - 110.0	P	30-MAR-10 15:54	033010B-1
	Silver	493	ug/L	500	ug/L	98.7	90.0 - 110.0	P	31-MAR-10 19:06	033110B-2
	Arsenic	51.7	ug/L	50	ug/L	103.3	90.0 - 110.0	MS	13-APR-10 20:09	100413-3
	Beryllium	55.7	ug/L	50	ug/L	111.4	90.0 - 110.0	MS	13-APR-10 20:09	100413-3
	Nickel	49.9	ug/L	50	ug/L	99.7	90.0 - 110.0	MS	13-APR-10 20:09	100413-3
	Selenium	51	ug/L	50	ug/L	102	90.0 - 110.0	MS	13-APR-10 20:09	100413-3
	Thallium	50.1	ug/L	50	ug/L	100.2	90.0 - 110.0	MS	13-APR-10 20:09	100413-3
	Uranium	50.7	ug/L	50	ug/L	101.3	90.0 - 110.0	MS	13-APR-10 20:09	100413-3
CCV03										
	Mercury	5.3	ug/L	5	ug/L	106	80.0 - 120.0	AV	17-MAR-10 13:30	031710S1-4
	Aluminum	5160	ug/L	5000	ug/L	103.1	90.0 - 110.0	P	30-MAR-10 16:14	033010B-1
	Antimony	507	ug/L	500	ug/L	101.3	90.0 - 110.0	P	30-MAR-10 16:14	033010B-1
	Barium	507	ug/L	500	ug/L	101.4	90.0 - 110.0	P	30-MAR-10 16:14	033010B-1
	Cadmium	505	ug/L	500	ug/L	101	90.0 - 110.0	P	30-MAR-10 16:14	033010B-1
	Calcium	5100	ug/L	5000	ug/L	102	90.0 - 110.0	P	30-MAR-10 16:14	033010B-1
	Chromium	505	ug/L	500	ug/L	101.1	90.0 - 110.0	P	30-MAR-10 16:14	033010B-1
	Cobalt	510	ug/L	500	ug/L	101.9	90.0 - 110.0	P	30-MAR-10 16:14	033010B-1
	Copper	507	ug/L	500	ug/L	101.4	90.0 - 110.0	P	30-MAR-10 16:14	033010B-1
	Iron	5080	ug/L	5000	ug/L	101.5	90.0 - 110.0	P	30-MAR-10 16:14	033010B-1
	Lead	509	ug/L	500	ug/L	101.8	90.0 - 110.0	P	30-MAR-10 16:14	033010B-1
	Magnesium	5180	ug/L	5000	ug/L	103.6	90.0 - 110.0	P	30-MAR-10 16:14	033010B-1

## METALS

-2a-

## Initial and Continuing Calibration Verification

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Manganese	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	30-MAR-10 16:14	033010B-1
	Potassium	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	30-MAR-10 16:14	033010B-1
	Silver	510	ug/L	500	ug/L	102	90.0 – 110.0	P	30-MAR-10 16:14	033010B-1
	Sodium	10100	ug/L	10000	ug/L	101.2	90.0 – 110.0	P	30-MAR-10 16:14	033010B-1
	Vanadium	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	30-MAR-10 16:14	033010B-1
	Zinc	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	30-MAR-10 16:14	033010B-1
	Silver	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	31-MAR-10 19:27	033110B-2
	Arsenic	51.3	ug/L	50	ug/L	102.5	90.0 – 110.0	MS	13-APR-10 20:42	100413-3
	Beryllium	54.8	ug/L	50	ug/L	109.5	90.0 – 110.0	MS	13-APR-10 20:42	100413-3
	Nickel	48.6	ug/L	50	ug/L	97.3	90.0 – 110.0	MS	13-APR-10 20:42	100413-3
	Selenium	53.3	ug/L	50	ug/L	106.6	90.0 – 110.0	MS	13-APR-10 20:42	100413-3
	Thallium	49.6	ug/L	50	ug/L	99.3	90.0 – 110.0	MS	13-APR-10 20:42	100413-3
	Uranium	50.5	ug/L	50	ug/L	101	90.0 – 110.0	MS	13-APR-10 20:42	100413-3
CCV04	Mercury	5.55	ug/L	5	ug/L	111	80.0 – 120.0	AV	17-MAR-10 13:42	031710S1-4
	Aluminum	5110	ug/L	5000	ug/L	102.3	90.0 – 110.0	P	30-MAR-10 16:33	033010B-1
	Antimony	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	30-MAR-10 16:33	033010B-1
	Barium	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	30-MAR-10 16:33	033010B-1
	Cadmium	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	30-MAR-10 16:33	033010B-1
	Calcium	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	30-MAR-10 16:33	033010B-1
	Chromium	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	30-MAR-10 16:33	033010B-1
	Cobalt	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	30-MAR-10 16:33	033010B-1
	Copper	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	30-MAR-10 16:33	033010B-1
	Iron	5050	ug/L	5000	ug/L	101.1	90.0 – 110.0	P	30-MAR-10 16:33	033010B-1
	Lead	512	ug/L	500	ug/L	102.5	90.0 – 110.0	P	30-MAR-10 16:33	033010B-1
	Magnesium	5160	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	30-MAR-10 16:33	033010B-1
	Manganese	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	30-MAR-10 16:33	033010B-1
	Potassium	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	30-MAR-10 16:33	033010B-1
	Silver	507	ug/L	500	ug/L	101.3	90.0 – 110.0	P	30-MAR-10 16:33	033010B-1
	Sodium	10100	ug/L	10000	ug/L	101	90.0 – 110.0	P	30-MAR-10 16:33	033010B-1

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

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA4

<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>
	Vanadium	507	ug/L	500	ug/L	101.4	90.0 - 110.0	P	30-MAR-10 16:33	033010B-1
	Zinc	500	ug/L	500	ug/L	100.1	90.0 - 110.0	P	30-MAR-10 16:33	033010B-1
	Silver	489	ug/L	500	ug/L	97.7	90.0 - 110.0	P	31-MAR-10 19:48	033110B-2
	Arsenic	50.5	ug/L	50	ug/L	100.9	90.0 - 110.0	MS	13-APR-10 21:19	100413-3
	Beryllium	54.4	ug/L	50	ug/L	108.7	90.0 - 110.0	MS	13-APR-10 21:19	100413-3
	Nickel	48.7	ug/L	50	ug/L	97.3	90.0 - 110.0	MS	13-APR-10 21:19	100413-3
	Selenium	51.1	ug/L	50	ug/L	102.2	90.0 - 110.0	MS	13-APR-10 21:19	100413-3
	Thallium	50.5	ug/L	50	ug/L	100.9	90.0 - 110.0	MS	13-APR-10 21:19	100413-3
	Uranium	51	ug/L	50	ug/L	102.1	90.0 - 110.0	MS	13-APR-10 21:19	100413-3
CCV05	Mercury	5.49	ug/L	5	ug/L	109.7	80.0 - 120.0	AV	17-MAR-10 14:09	031710S1-4
	Aluminum	5110	ug/L	5000	ug/L	102.2	90.0 - 110.0	P	30-MAR-10 16:57	033010B-1
	Antimony	511	ug/L	500	ug/L	102.2	90.0 - 110.0	P	30-MAR-10 16:57	033010B-1
	Barium	504	ug/L	500	ug/L	100.8	90.0 - 110.0	P	30-MAR-10 16:57	033010B-1
	Cadmium	505	ug/L	500	ug/L	101	90.0 - 110.0	P	30-MAR-10 16:57	033010B-1
	Calcium	5090	ug/L	5000	ug/L	101.9	90.0 - 110.0	P	30-MAR-10 16:57	033010B-1
	Chromium	502	ug/L	500	ug/L	100.4	90.0 - 110.0	P	30-MAR-10 16:57	033010B-1
	Cobalt	507	ug/L	500	ug/L	101.4	90.0 - 110.0	P	30-MAR-10 16:57	033010B-1
	Copper	503	ug/L	500	ug/L	100.5	90.0 - 110.0	P	30-MAR-10 16:57	033010B-1
	Iron	5060	ug/L	5000	ug/L	101.3	90.0 - 110.0	P	30-MAR-10 16:57	033010B-1
	Lead	516	ug/L	500	ug/L	103.3	90.0 - 110.0	P	30-MAR-10 16:57	033010B-1
	Magnesium	5210	ug/L	5000	ug/L	104.1	90.0 - 110.0	P	30-MAR-10 16:57	033010B-1
	Manganese	505	ug/L	500	ug/L	101	90.0 - 110.0	P	30-MAR-10 16:57	033010B-1
	Potassium	5080	ug/L	5000	ug/L	101.5	90.0 - 110.0	P	30-MAR-10 16:57	033010B-1
	Silver	506	ug/L	500	ug/L	101.3	90.0 - 110.0	P	30-MAR-10 16:57	033010B-1
	Sodium	10100	ug/L	10000	ug/L	100.9	90.0 - 110.0	P	30-MAR-10 16:57	033010B-1
	Vanadium	507	ug/L	500	ug/L	101.3	90.0 - 110.0	P	30-MAR-10 16:57	033010B-1
	Zinc	501	ug/L	500	ug/L	100.3	90.0 - 110.0	P	30-MAR-10 16:57	033010B-1
	Silver	489	ug/L	500	ug/L	97.8	90.0 - 110.0	P	31-MAR-10 20:18	033110B-2
	Arsenic	49.9	ug/L	50	ug/L	99.8	90.0 - 110.0	MS	13-APR-10 22:00	100413-3



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

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA4

<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>
CCV06	Beryllium	54.4	ug/L	50	ug/L	108.8	90.0 – 110.0	MS	13-APR-10 22:00	100413-3
	Nickel	49.1	ug/L	50	ug/L	98.3	90.0 – 110.0	MS	13-APR-10 22:00	100413-3
	Selenium	50.4	ug/L	50	ug/L	100.8	90.0 – 110.0	MS	13-APR-10 22:00	100413-3
	Thallium	50.4	ug/L	50	ug/L	100.7	90.0 – 110.0	MS	13-APR-10 22:00	100413-3
	Uranium	50.9	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	13-APR-10 22:00	100413-3
CCV06	Mercury	5.34	ug/L	5	ug/L	106.8	80.0 – 120.0	AV	17-MAR-10 14:31	031710S1-4
	Aluminum	5120	ug/L	5000	ug/L	102.3	90.0 – 110.0	P	30-MAR-10 17:18	033010B-1
	Antimony	510	ug/L	500	ug/L	102	90.0 – 110.0	P	30-MAR-10 17:18	033010B-1
	Barium	505	ug/L	500	ug/L	101	90.0 – 110.0	P	30-MAR-10 17:18	033010B-1
	Cadmium	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	30-MAR-10 17:18	033010B-1
	Calcium	5100	ug/L	5000	ug/L	102	90.0 – 110.0	P	30-MAR-10 17:18	033010B-1
	Chromium	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	30-MAR-10 17:18	033010B-1
	Cobalt	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	30-MAR-10 17:18	033010B-1
	Copper	505	ug/L	500	ug/L	101	90.0 – 110.0	P	30-MAR-10 17:18	033010B-1
	Iron	5060	ug/L	5000	ug/L	101.3	90.0 – 110.0	P	30-MAR-10 17:18	033010B-1
	Lead	515	ug/L	500	ug/L	103	90.0 – 110.0	P	30-MAR-10 17:18	033010B-1
	Magnesium	5190	ug/L	5000	ug/L	103.8	90.0 – 110.0	P	30-MAR-10 17:18	033010B-1
	Manganese	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	30-MAR-10 17:18	033010B-1
	Potassium	5090	ug/L	5000	ug/L	101.8	90.0 – 110.0	P	30-MAR-10 17:18	033010B-1
	Silver	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	30-MAR-10 17:18	033010B-1
	Sodium	10100	ug/L	10000	ug/L	100.6	90.0 – 110.0	P	30-MAR-10 17:18	033010B-1
	Vanadium	510	ug/L	500	ug/L	101.9	90.0 – 110.0	P	30-MAR-10 17:18	033010B-1
	Zinc	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	30-MAR-10 17:18	033010B-1
	Silver	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	31-MAR-10 20:46	033110B-2
	Arsenic	51.1	ug/L	50	ug/L	102.3	90.0 – 110.0	MS	13-APR-10 22:33	100413-3
	Beryllium	53	ug/L	50	ug/L	106	90.0 – 110.0	MS	13-APR-10 22:33	100413-3
	Nickel	48.3	ug/L	50	ug/L	96.6	90.0 – 110.0	MS	13-APR-10 22:33	100413-3
	Selenium	50.4	ug/L	50	ug/L	100.8	90.0 – 110.0	MS	13-APR-10 22:33	100413-3
	Thallium	49.9	ug/L	50	ug/L	99.8	90.0 – 110.0	MS	13-APR-10 22:33	100413-3

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

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA4

<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>
CCV07	Uranium	51	ug/L	50	ug/L	102	90.0 - 110.0	MS	13-APR-10 22:33	100413-3
	Aluminum	5090	ug/L	5000	ug/L	101.8	90.0 - 110.0	P	30-MAR-10 17:40	033010B-1
	Antimony	510	ug/L	500	ug/L	102	90.0 - 110.0	P	30-MAR-10 17:40	033010B-1
	Barium	505	ug/L	500	ug/L	101.1	90.0 - 110.0	P	30-MAR-10 17:40	033010B-1
	Cadmium	507	ug/L	500	ug/L	101.3	90.0 - 110.0	P	30-MAR-10 17:40	033010B-1
	Calcium	5110	ug/L	5000	ug/L	102.3	90.0 - 110.0	P	30-MAR-10 17:40	033010B-1
	Chromium	504	ug/L	500	ug/L	100.8	90.0 - 110.0	P	30-MAR-10 17:40	033010B-1
	Cobalt	509	ug/L	500	ug/L	101.8	90.0 - 110.0	P	30-MAR-10 17:40	033010B-1
	Copper	505	ug/L	500	ug/L	101	90.0 - 110.0	P	30-MAR-10 17:40	033010B-1
	Iron	5070	ug/L	5000	ug/L	101.5	90.0 - 110.0	P	30-MAR-10 17:40	033010B-1
	Lead	513	ug/L	500	ug/L	102.7	90.0 - 110.0	P	30-MAR-10 17:40	033010B-1
	Magnesium	5220	ug/L	5000	ug/L	104.4	90.0 - 110.0	P	30-MAR-10 17:40	033010B-1
	Manganese	507	ug/L	500	ug/L	101.4	90.0 - 110.0	P	30-MAR-10 17:40	033010B-1
	Potassium	5130	ug/L	5000	ug/L	102.6	90.0 - 110.0	P	30-MAR-10 17:40	033010B-1
	Silver	508	ug/L	500	ug/L	101.7	90.0 - 110.0	P	30-MAR-10 17:40	033010B-1
	Sodium	10100	ug/L	10000	ug/L	100.5	90.0 - 110.0	P	30-MAR-10 17:40	033010B-1
	Vanadium	508	ug/L	500	ug/L	101.7	90.0 - 110.0	P	30-MAR-10 17:40	033010B-1
	Zinc	505	ug/L	500	ug/L	100.9	90.0 - 110.0	P	30-MAR-10 17:40	033010B-1
	Silver	486	ug/L	500	ug/L	97.2	90.0 - 110.0	P	31-MAR-10 21:16	033110B-2
	Arsenic	50.8	ug/L	50	ug/L	101.7	90.0 - 110.0	MS	13-APR-10 23:01	100413-3
	Beryllium	54.1	ug/L	50	ug/L	108.2	90.0 - 110.0	MS	13-APR-10 23:01	100413-3
	Nickel	48.4	ug/L	50	ug/L	96.8	90.0 - 110.0	MS	13-APR-10 23:01	100413-3
CCV08	Selenium	50.5	ug/L	50	ug/L	101.1	90.0 - 110.0	MS	13-APR-10 23:01	100413-3
	Thallium	49.7	ug/L	50	ug/L	99.3	90.0 - 110.0	MS	13-APR-10 23:01	100413-3
	Uranium	50.9	ug/L	50	ug/L	101.8	90.0 - 110.0	MS	13-APR-10 23:01	100413-3
	Aluminum	5110	ug/L	5000	ug/L	102.2	90.0 - 110.0	P	30-MAR-10 18:00	033010B-1
	Antimony	506	ug/L	500	ug/L	101.2	90.0 - 110.0	P	30-MAR-10 18:00	033010B-1
	Barium	503	ug/L	500	ug/L	100.6	90.0 - 110.0	P	30-MAR-10 18:00	033010B-1

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

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA4

<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>
	Cadmium	502	ug/L	500	ug/L	100.3	90.0 - 110.0	P	30-MAR-10 18:00	033010B-1
	Calcium	5090	ug/L	5000	ug/L	101.8	90.0 - 110.0	P	30-MAR-10 18:00	033010B-1
	Chromium	501	ug/L	500	ug/L	100.1	90.0 - 110.0	P	30-MAR-10 18:00	033010B-1
	Cobalt	506	ug/L	500	ug/L	101.2	90.0 - 110.0	P	30-MAR-10 18:00	033010B-1
	Copper	502	ug/L	500	ug/L	100.4	90.0 - 110.0	P	30-MAR-10 18:00	033010B-1
	Iron	5060	ug/L	5000	ug/L	101.2	90.0 - 110.0	P	30-MAR-10 18:00	033010B-1
	Lead	508	ug/L	500	ug/L	101.6	90.0 - 110.0	P	30-MAR-10 18:00	033010B-1
	Magnesium	5160	ug/L	5000	ug/L	103.3	90.0 - 110.0	P	30-MAR-10 18:00	033010B-1
	Manganese	504	ug/L	500	ug/L	100.7	90.0 - 110.0	P	30-MAR-10 18:00	033010B-1
	Potassium	5110	ug/L	5000	ug/L	102.2	90.0 - 110.0	P	30-MAR-10 18:00	033010B-1
	Silver	506	ug/L	500	ug/L	101.2	90.0 - 110.0	P	30-MAR-10 18:00	033010B-1
	Sodium	10100	ug/L	10000	ug/L	100.7	90.0 - 110.0	P	30-MAR-10 18:00	033010B-1
	Vanadium	506	ug/L	500	ug/L	101.2	90.0 - 110.0	P	30-MAR-10 18:00	033010B-1
	Zinc	500	ug/L	500	ug/L	100	90.0 - 110.0	P	30-MAR-10 18:00	033010B-1
	Silver	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	31-MAR-10 21:39	033110B-2
	Arsenic	50.7	ug/L	50	ug/L	101.3	90.0 - 110.0	MS	13-APR-10 23:47	100413-3
	Beryllium	54	ug/L	50	ug/L	108	90.0 - 110.0	MS	13-APR-10 23:47	100413-3
	Nickel	48.4	ug/L	50	ug/L	96.8	90.0 - 110.0	MS	13-APR-10 23:47	100413-3
	Selenium	49.5	ug/L	50	ug/L	98.9	90.0 - 110.0	MS	13-APR-10 23:47	100413-3
	Thallium	50.4	ug/L	50	ug/L	100.9	90.0 - 110.0	MS	13-APR-10 23:47	100413-3
	Uranium	51.2	ug/L	50	ug/L	102.5	90.0 - 110.0	MS	13-APR-10 23:47	100413-3
CCV09	Aluminum	5090	ug/L	5000	ug/L	101.9	90.0 - 110.0	P	30-MAR-10 18:22	033010B-1
	Antimony	503	ug/L	500	ug/L	100.5	90.0 - 110.0	P	30-MAR-10 18:22	033010B-1
	Barium	502	ug/L	500	ug/L	100.4	90.0 - 110.0	P	30-MAR-10 18:22	033010B-1
	Cadmium	503	ug/L	500	ug/L	100.7	90.0 - 110.0	P	30-MAR-10 18:22	033010B-1
	Calcium	5090	ug/L	5000	ug/L	101.8	90.0 - 110.0	P	30-MAR-10 18:22	033010B-1
	Chromium	500	ug/L	500	ug/L	100.1	90.0 - 110.0	P	30-MAR-10 18:22	033010B-1
	Cobalt	505	ug/L	500	ug/L	101.1	90.0 - 110.0	P	30-MAR-10 18:22	033010B-1
	Copper	501	ug/L	500	ug/L	100.2	90.0 - 110.0	P	30-MAR-10 18:22	033010B-1

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

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA4

<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	5060	ug/L	5000	ug/L	101.1	90.0 – 110.0	P	30-MAR-10 18:22	033010B-1
	Lead	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	30-MAR-10 18:22	033010B-1
	Magnesium	5180	ug/L	5000	ug/L	103.7	90.0 – 110.0	P	30-MAR-10 18:22	033010B-1
	Manganese	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	30-MAR-10 18:22	033010B-1
	Potassium	5080	ug/L	5000	ug/L	101.7	90.0 – 110.0	P	30-MAR-10 18:22	033010B-1
	Silver	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	30-MAR-10 18:22	033010B-1
	Sodium	10100	ug/L	10000	ug/L	100.8	90.0 – 110.0	P	30-MAR-10 18:22	033010B-1
	Vanadium	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	30-MAR-10 18:22	033010B-1
	Zinc	500	ug/L	500	ug/L	100	90.0 – 110.0	P	30-MAR-10 18:22	033010B-1
	Silver	481	ug/L	500	ug/L	96.3	90.0 – 110.0	P	31-MAR-10 21:55	033110B-2
	Arsenic	50.8	ug/L	50	ug/L	101.6	90.0 – 110.0	MS	14-APR-10 00:32	100413-3
	Beryllium	53.8	ug/L	50	ug/L	107.7	90.0 – 110.0	MS	14-APR-10 00:32	100413-3
	Nickel	48.5	ug/L	50	ug/L	97	90.0 – 110.0	MS	14-APR-10 00:32	100413-3
	Selenium	50	ug/L	50	ug/L	99.9	90.0 – 110.0	MS	14-APR-10 00:32	100413-3
	Thallium	49.6	ug/L	50	ug/L	99.2	90.0 – 110.0	MS	14-APR-10 00:32	100413-3
	Uranium	50.4	ug/L	50	ug/L	100.9	90.0 – 110.0	MS	14-APR-10 00:32	100413-3
CCV10	Aluminum	5120	ug/L	5000	ug/L	102.4	90.0 – 110.0	P	30-MAR-10 18:44	033010B-1
	Antimony	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	30-MAR-10 18:44	033010B-1
	Barium	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	30-MAR-10 18:44	033010B-1
	Cadmium	504	ug/L	500	ug/L	100.7	90.0 – 110.0	P	30-MAR-10 18:44	033010B-1
	Calcium	5110	ug/L	5000	ug/L	102.1	90.0 – 110.0	P	30-MAR-10 18:44	033010B-1
	Chromium	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	30-MAR-10 18:44	033010B-1
	Cobalt	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	30-MAR-10 18:44	033010B-1
	Copper	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	30-MAR-10 18:44	033010B-1
	Iron	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	30-MAR-10 18:44	033010B-1
	Lead	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	30-MAR-10 18:44	033010B-1
	Magnesium	5210	ug/L	5000	ug/L	104.2	90.0 – 110.0	P	30-MAR-10 18:44	033010B-1
	Manganese	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	30-MAR-10 18:44	033010B-1
	Potassium	5150	ug/L	5000	ug/L	103	90.0 – 110.0	P	30-MAR-10 18:44	033010B-1

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

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA4

<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	505	ug/L	500	ug/L	100.9	90.0 - 110.0	P	30-MAR-10 18:44	033010B-1
	Sodium	10100	ug/L	10000	ug/L	100.9	90.0 - 110.0	P	30-MAR-10 18:44	033010B-1
	Vanadium	506	ug/L	500	ug/L	101.3	90.0 - 110.0	P	30-MAR-10 18:44	033010B-1
	Zinc	500	ug/L	500	ug/L	100.1	90.0 - 110.0	P	30-MAR-10 18:44	033010B-1
	Silver	481	ug/L	500	ug/L	96.2	90.0 - 110.0	P	31-MAR-10 22:12	033110B-2
	Arsenic	50.7	ug/L	50	ug/L	101.4	90.0 - 110.0	MS	14-APR-10 01:17	100413-3
	Beryllium	54.2	ug/L	50	ug/L	108.4	90.0 - 110.0	MS	14-APR-10 01:17	100413-3
	Nickel	47.7	ug/L	50	ug/L	95.4	90.0 - 110.0	MS	14-APR-10 01:17	100413-3
	Selenium	50.4	ug/L	50	ug/L	100.8	90.0 - 110.0	MS	14-APR-10 01:17	100413-3
	Thallium	49.2	ug/L	50	ug/L	98.3	90.0 - 110.0	MS	14-APR-10 01:17	100413-3
	Uranium	50.1	ug/L	50	ug/L	100.1	90.0 - 110.0	MS	14-APR-10 01:17	100413-3
CCV11	Aluminum	5120	ug/L	5000	ug/L	102.3	90.0 - 110.0	P	30-MAR-10 19:02	033010B-1
	Antimony	511	ug/L	500	ug/L	102.1	90.0 - 110.0	P	30-MAR-10 19:02	033010B-1
	Barium	507	ug/L	500	ug/L	101.3	90.0 - 110.0	P	30-MAR-10 19:02	033010B-1
	Cadmium	509	ug/L	500	ug/L	101.8	90.0 - 110.0	P	30-MAR-10 19:02	033010B-1
	Calcium	5090	ug/L	5000	ug/L	101.9	90.0 - 110.0	P	30-MAR-10 19:02	033010B-1
	Chromium	505	ug/L	500	ug/L	101	90.0 - 110.0	P	30-MAR-10 19:02	033010B-1
	Cobalt	511	ug/L	500	ug/L	102.2	90.0 - 110.0	P	30-MAR-10 19:02	033010B-1
	Copper	505	ug/L	500	ug/L	101.1	90.0 - 110.0	P	30-MAR-10 19:02	033010B-1
	Iron	5060	ug/L	5000	ug/L	101.3	90.0 - 110.0	P	30-MAR-10 19:02	033010B-1
	Lead	514	ug/L	500	ug/L	102.9	90.0 - 110.0	P	30-MAR-10 19:02	033010B-1
	Magnesium	5190	ug/L	5000	ug/L	103.8	90.0 - 110.0	P	30-MAR-10 19:02	033010B-1
	Manganese	508	ug/L	500	ug/L	101.6	90.0 - 110.0	P	30-MAR-10 19:02	033010B-1
	Potassium	5160	ug/L	5000	ug/L	103.1	90.0 - 110.0	P	30-MAR-10 19:02	033010B-1
	Silver	508	ug/L	500	ug/L	101.5	90.0 - 110.0	P	30-MAR-10 19:02	033010B-1
	Sodium	10100	ug/L	10000	ug/L	100.6	90.0 - 110.0	P	30-MAR-10 19:02	033010B-1
	Vanadium	510	ug/L	500	ug/L	101.9	90.0 - 110.0	P	30-MAR-10 19:02	033010B-1
	Zinc	506	ug/L	500	ug/L	101.2	90.0 - 110.0	P	30-MAR-10 19:02	033010B-1
	Silver	480	ug/L	500	ug/L	95.9	90.0 - 110.0	P	31-MAR-10 22:35	033110B-2

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

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA4

<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>
	Arsenic	49.6	ug/L	50	ug/L	99.2	90.0 – 110.0	MS	14-APR-10 01:54	100413-3
	Beryllium	53.5	ug/L	50	ug/L	107	90.0 – 110.0	MS	14-APR-10 01:54	100413-3
	Nickel	47.9	ug/L	50	ug/L	95.7	90.0 – 110.0	MS	14-APR-10 01:54	100413-3
	Selenium	49.6	ug/L	50	ug/L	99.2	90.0 – 110.0	MS	14-APR-10 01:54	100413-3
	Thallium	50.3	ug/L	50	ug/L	100.6	90.0 – 110.0	MS	14-APR-10 01:54	100413-3
	Uranium	50.9	ug/L	50	ug/L	101.7	90.0 – 110.0	MS	14-APR-10 01:54	100413-3
CCV12	Aluminum	5130	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	30-MAR-10 19:19	033010B-1
	Antimony	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	30-MAR-10 19:19	033010B-1
	Barium	501	ug/L	500	ug/L	100.1	90.0 – 110.0	P	30-MAR-10 19:19	033010B-1
	Cadmium	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	30-MAR-10 19:19	033010B-1
	Calcium	5080	ug/L	5000	ug/L	101.7	90.0 – 110.0	P	30-MAR-10 19:19	033010B-1
	Chromium	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	30-MAR-10 19:19	033010B-1
	Cobalt	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	30-MAR-10 19:19	033010B-1
	Copper	499	ug/L	500	ug/L	99.9	90.0 – 110.0	P	30-MAR-10 19:19	033010B-1
	Iron	5060	ug/L	5000	ug/L	101.1	90.0 – 110.0	P	30-MAR-10 19:19	033010B-1
	Lead	508	ug/L	500	ug/L	101.5	90.0 – 110.0	P	30-MAR-10 19:19	033010B-1
	Magnesium	5200	ug/L	5000	ug/L	104	90.0 – 110.0	P	30-MAR-10 19:19	033010B-1
	Manganese	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	30-MAR-10 19:19	033010B-1
	Potassium	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	30-MAR-10 19:19	033010B-1
	Silver	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	30-MAR-10 19:19	033010B-1
	Sodium	10000	ug/L	10000	ug/L	100.5	90.0 – 110.0	P	30-MAR-10 19:19	033010B-1
	Vanadium	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	30-MAR-10 19:19	033010B-1
	Zinc	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	30-MAR-10 19:19	033010B-1
	Silver	480	ug/L	500	ug/L	96.1	90.0 – 110.0	P	31-MAR-10 22:56	033110B-2
	Arsenic	51.1	ug/L	50	ug/L	102.2	90.0 – 110.0	MS	14-APR-10 02:27	100413-3
	Beryllium	53	ug/L	50	ug/L	105.9	90.0 – 110.0	MS	14-APR-10 02:27	100413-3
	Nickel	47.9	ug/L	50	ug/L	95.8	90.0 – 110.0	MS	14-APR-10 02:27	100413-3
	Selenium	51.3	ug/L	50	ug/L	102.6	90.0 – 110.0	MS	14-APR-10 02:27	100413-3
	Thallium	49.6	ug/L	50	ug/L	99.1	90.0 – 110.0	MS	14-APR-10 02:27	100413-3

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

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA4

<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>
CCV13	Uranium	50.3	ug/L	50	ug/L	100.6	90.0 - 110.0	MS	14-APR-10 02:27	100413-3
	Aluminum	5120	ug/L	5000	ug/L	102.4	90.0 - 110.0	P	30-MAR-10 19:43	033010B-1
	Antimony	503	ug/L	500	ug/L	100.7	90.0 - 110.0	P	30-MAR-10 19:43	033010B-1
	Barium	500	ug/L	500	ug/L	99.9	90.0 - 110.0	P	30-MAR-10 19:43	033010B-1
	Cadmium	498	ug/L	500	ug/L	99.5	90.0 - 110.0	P	30-MAR-10 19:43	033010B-1
	Calcium	5040	ug/L	5000	ug/L	100.7	90.0 - 110.0	P	30-MAR-10 19:43	033010B-1
	Chromium	498	ug/L	500	ug/L	99.5	90.0 - 110.0	P	30-MAR-10 19:43	033010B-1
	Cobalt	500	ug/L	500	ug/L	100.1	90.0 - 110.0	P	30-MAR-10 19:43	033010B-1
	Copper	499	ug/L	500	ug/L	99.8	90.0 - 110.0	P	30-MAR-10 19:43	033010B-1
	Iron	5010	ug/L	5000	ug/L	100.2	90.0 - 110.0	P	30-MAR-10 19:43	033010B-1
	Lead	505	ug/L	500	ug/L	101.1	90.0 - 110.0	P	30-MAR-10 19:43	033010B-1
	Magnesium	5140	ug/L	5000	ug/L	102.7	90.0 - 110.0	P	30-MAR-10 19:43	033010B-1
	Manganese	501	ug/L	500	ug/L	100.1	90.0 - 110.0	P	30-MAR-10 19:43	033010B-1
	Potassium	5110	ug/L	5000	ug/L	102.2	90.0 - 110.0	P	30-MAR-10 19:43	033010B-1
	Silver	502	ug/L	500	ug/L	100.4	90.0 - 110.0	P	30-MAR-10 19:43	033010B-1
	Sodium	10000	ug/L	10000	ug/L	100.2	90.0 - 110.0	P	30-MAR-10 19:43	033010B-1
	Vanadium	503	ug/L	500	ug/L	100.5	90.0 - 110.0	P	30-MAR-10 19:43	033010B-1
	Zinc	496	ug/L	500	ug/L	99.3	90.0 - 110.0	P	30-MAR-10 19:43	033010B-1
	Silver	480	ug/L	500	ug/L	96	90.0 - 110.0	P	31-MAR-10 23:18	033110B-2
CCV14	Aluminum	5140	ug/L	5000	ug/L	102.8	90.0 - 110.0	P	30-MAR-10 20:08	033010B-1
	Antimony	504	ug/L	500	ug/L	100.8	90.0 - 110.0	P	30-MAR-10 20:08	033010B-1
	Barium	502	ug/L	500	ug/L	100.5	90.0 - 110.0	P	30-MAR-10 20:08	033010B-1
	Cadmium	503	ug/L	500	ug/L	100.6	90.0 - 110.0	P	30-MAR-10 20:08	033010B-1
	Calcium	5090	ug/L	5000	ug/L	101.8	90.0 - 110.0	P	30-MAR-10 20:08	033010B-1
	Chromium	500	ug/L	500	ug/L	100	90.0 - 110.0	P	30-MAR-10 20:08	033010B-1
	Cobalt	507	ug/L	500	ug/L	101.3	90.0 - 110.0	P	30-MAR-10 20:08	033010B-1
	Copper	501	ug/L	500	ug/L	100.2	90.0 - 110.0	P	30-MAR-10 20:08	033010B-1
	Iron	5080	ug/L	5000	ug/L	101.5	90.0 - 110.0	P	30-MAR-10 20:08	033010B-1

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

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA4

<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>
	Lead	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	30-MAR-10 20:08	033010B-1
	Magnesium	5230	ug/L	5000	ug/L	104.6	90.0 – 110.0	P	30-MAR-10 20:08	033010B-1
	Manganese	504	ug/L	500	ug/L	100.7	90.0 – 110.0	P	30-MAR-10 20:08	033010B-1
	Potassium	5210	ug/L	5000	ug/L	104.2	90.0 – 110.0	P	30-MAR-10 20:08	033010B-1
	Silver	504	ug/L	500	ug/L	100.7	90.0 – 110.0	P	30-MAR-10 20:08	033010B-1
	Sodium	10100	ug/L	10000	ug/L	100.9	90.0 – 110.0	P	30-MAR-10 20:08	033010B-1
	Vanadium	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	30-MAR-10 20:08	033010B-1
	Zinc	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	30-MAR-10 20:08	033010B-1
	Silver	480	ug/L	500	ug/L	96.1	90.0 – 110.0	P	31-MAR-10 23:44	033110B-2
CCV15	Aluminum	5150	ug/L	5000	ug/L	103	90.0 – 110.0	P	30-MAR-10 20:27	033010B-1
	Antimony	507	ug/L	500	ug/L	101.3	90.0 – 110.0	P	30-MAR-10 20:27	033010B-1
	Barium	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	30-MAR-10 20:27	033010B-1
	Cadmium	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	30-MAR-10 20:27	033010B-1
	Calcium	5100	ug/L	5000	ug/L	102	90.0 – 110.0	P	30-MAR-10 20:27	033010B-1
	Chromium	500	ug/L	500	ug/L	99.9	90.0 – 110.0	P	30-MAR-10 20:27	033010B-1
	Cobalt	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	30-MAR-10 20:27	033010B-1
	Copper	501	ug/L	500	ug/L	100.1	90.0 – 110.0	P	30-MAR-10 20:27	033010B-1
	Iron	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	30-MAR-10 20:27	033010B-1
	Lead	510	ug/L	500	ug/L	102.1	90.0 – 110.0	P	30-MAR-10 20:27	033010B-1
	Magnesium	5210	ug/L	5000	ug/L	104.3	90.0 – 110.0	P	30-MAR-10 20:27	033010B-1
	Manganese	505	ug/L	500	ug/L	101	90.0 – 110.0	P	30-MAR-10 20:27	033010B-1
	Potassium	5150	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	30-MAR-10 20:27	033010B-1
	Silver	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	30-MAR-10 20:27	033010B-1
	Sodium	10100	ug/L	10000	ug/L	101	90.0 – 110.0	P	30-MAR-10 20:27	033010B-1
	Vanadium	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	30-MAR-10 20:27	033010B-1
	Zinc	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	30-MAR-10 20:27	033010B-1
	Silver	479	ug/L	500	ug/L	95.7	90.0 – 110.0	P	01-APR-10 00:02	033110B-2
CCV16	Aluminum	5190	ug/L	5000	ug/L	103.8	90.0 – 110.0	P	30-MAR-10 20:44	033010B-1



## METALS

-2a-

## Initial and Continuing Calibration Verification

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Antimony	507	ug/L	500	ug/L	101.3	90.0 – 110.0	P	30-MAR-10 20:44	033010B-1
	Barium	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	30-MAR-10 20:44	033010B-1
	Cadmium	501	ug/L	500	ug/L	100.1	90.0 – 110.0	P	30-MAR-10 20:44	033010B-1
	Calcium	5090	ug/L	5000	ug/L	101.7	90.0 – 110.0	P	30-MAR-10 20:44	033010B-1
	Chromium	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	30-MAR-10 20:44	033010B-1
	Cobalt	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	30-MAR-10 20:44	033010B-1
	Copper	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	30-MAR-10 20:44	033010B-1
	Iron	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	30-MAR-10 20:44	033010B-1
	Lead	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	30-MAR-10 20:44	033010B-1
	Magnesium	5180	ug/L	5000	ug/L	103.7	90.0 – 110.0	P	30-MAR-10 20:44	033010B-1
	Manganese	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	30-MAR-10 20:44	033010B-1
	Potassium	5130	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	30-MAR-10 20:44	033010B-1
	Silver	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	30-MAR-10 20:44	033010B-1
	Sodium	10100	ug/L	10000	ug/L	101.2	90.0 – 110.0	P	30-MAR-10 20:44	033010B-1
	Vanadium	505	ug/L	500	ug/L	101	90.0 – 110.0	P	30-MAR-10 20:44	033010B-1
	Zinc	499	ug/L	500	ug/L	99.9	90.0 – 110.0	P	30-MAR-10 20:44	033010B-1
	Silver	480	ug/L	500	ug/L	96	90.0 – 110.0	P	01-APR-10 00:18	033110B-2
CCV17	Aluminum	5150	ug/L	5000	ug/L	103	90.0 – 110.0	P	30-MAR-10 21:04	033010B-1
	Antimony	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	30-MAR-10 21:04	033010B-1
	Barium	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	30-MAR-10 21:04	033010B-1
	Cadmium	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	30-MAR-10 21:04	033010B-1
	Calcium	5070	ug/L	5000	ug/L	101.3	90.0 – 110.0	P	30-MAR-10 21:04	033010B-1
	Chromium	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	30-MAR-10 21:04	033010B-1
	Cobalt	505	ug/L	500	ug/L	101	90.0 – 110.0	P	30-MAR-10 21:04	033010B-1
	Copper	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	30-MAR-10 21:04	033010B-1
	Iron	5050	ug/L	5000	ug/L	101.1	90.0 – 110.0	P	30-MAR-10 21:04	033010B-1
	Lead	505	ug/L	500	ug/L	101	90.0 – 110.0	P	30-MAR-10 21:04	033010B-1
	Magnesium	5210	ug/L	5000	ug/L	104.1	90.0 – 110.0	P	30-MAR-10 21:04	033010B-1
	Manganese	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	30-MAR-10 21:04	033010B-1

SW846

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

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA4

<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>
	Potassium	5130	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	30-MAR-10 21:04	033010B-1
	Silver	504	ug/L	500	ug/L	100.7	90.0 – 110.0	P	30-MAR-10 21:04	033010B-1
	Sodium	10100	ug/L	10000	ug/L	101	90.0 – 110.0	P	30-MAR-10 21:04	033010B-1
	Vanadium	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	30-MAR-10 21:04	033010B-1
	Zinc	500	ug/L	500	ug/L	99.9	90.0 – 110.0	P	30-MAR-10 21:04	033010B-1
	Silver	479	ug/L	500	ug/L	95.7	90.0 – 110.0	P	01-APR-10 00:42	033110B-2
CCV18										
	Aluminum	5190	ug/L	5000	ug/L	103.8	90.0 – 110.0	P	30-MAR-10 21:18	033010B-1
	Antimony	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	30-MAR-10 21:18	033010B-1
	Barium	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	30-MAR-10 21:18	033010B-1
	Cadmium	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	30-MAR-10 21:18	033010B-1
	Calcium	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	30-MAR-10 21:18	033010B-1
	Chromium	500	ug/L	500	ug/L	100	90.0 – 110.0	P	30-MAR-10 21:18	033010B-1
	Cobalt	507	ug/L	500	ug/L	101.3	90.0 – 110.0	P	30-MAR-10 21:18	033010B-1
	Copper	502	ug/L	500	ug/L	100.3	90.0 – 110.0	P	30-MAR-10 21:18	033010B-1
	Iron	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	30-MAR-10 21:18	033010B-1
	Lead	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	30-MAR-10 21:18	033010B-1
	Magnesium	5210	ug/L	5000	ug/L	104.3	90.0 – 110.0	P	30-MAR-10 21:18	033010B-1
	Manganese	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	30-MAR-10 21:18	033010B-1
	Potassium	5160	ug/L	5000	ug/L	103.3	90.0 – 110.0	P	30-MAR-10 21:18	033010B-1
	Silver	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	30-MAR-10 21:18	033010B-1
	Sodium	10100	ug/L	10000	ug/L	101	90.0 – 110.0	P	30-MAR-10 21:18	033010B-1
	Vanadium	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	30-MAR-10 21:18	033010B-1
	Zinc	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	30-MAR-10 21:18	033010B-1
	Silver	480	ug/L	500	ug/L	95.9	90.0 – 110.0	P	01-APR-10 01:06	033110B-2
CCV19										
	Aluminum	5180	ug/L	5000	ug/L	103.7	90.0 – 110.0	P	30-MAR-10 21:37	033010B-1
	Antimony	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	30-MAR-10 21:37	033010B-1
	Barium	508	ug/L	500	ug/L	101.5	90.0 – 110.0	P	30-MAR-10 21:37	033010B-1
	Cadmium	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	30-MAR-10 21:37	033010B-1

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

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA4

<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	5090	ug/L	5000	ug/L	101.8	90.0 – 110.0	P	30-MAR-10 21:37	033010B-1
	Chromium	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	30-MAR-10 21:37	033010B-1
	Cobalt	511	ug/L	500	ug/L	102.1	90.0 – 110.0	P	30-MAR-10 21:37	033010B-1
	Copper	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	30-MAR-10 21:37	033010B-1
	Iron	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	30-MAR-10 21:37	033010B-1
	Lead	514	ug/L	500	ug/L	102.9	90.0 – 110.0	P	30-MAR-10 21:37	033010B-1
	Magnesium	5240	ug/L	5000	ug/L	104.8	90.0 – 110.0	P	30-MAR-10 21:37	033010B-1
	Manganese	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	30-MAR-10 21:37	033010B-1
	Potassium	5130	ug/L	5000	ug/L	102.5	90.0 – 110.0	P	30-MAR-10 21:37	033010B-1
	Silver	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	30-MAR-10 21:37	033010B-1
	Sodium	10100	ug/L	10000	ug/L	100.8	90.0 – 110.0	P	30-MAR-10 21:37	033010B-1
	Vanadium	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	30-MAR-10 21:37	033010B-1
	Zinc	505	ug/L	500	ug/L	101	90.0 – 110.0	P	30-MAR-10 21:37	033010B-1
	Silver	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	01-APR-10 01:30	033110B-2
CCV20										
	Aluminum	5240	ug/L	5000	ug/L	104.9	90.0 – 110.0	P	30-MAR-10 21:55	033010B-1
	Antimony	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	30-MAR-10 21:55	033010B-1
	Barium	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	30-MAR-10 21:55	033010B-1
	Cadmium	510	ug/L	500	ug/L	101.9	90.0 – 110.0	P	30-MAR-10 21:55	033010B-1
	Calcium	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	30-MAR-10 21:55	033010B-1
	Chromium	505	ug/L	500	ug/L	101	90.0 – 110.0	P	30-MAR-10 21:55	033010B-1
	Cobalt	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	30-MAR-10 21:55	033010B-1
	Copper	507	ug/L	500	ug/L	101.3	90.0 – 110.0	P	30-MAR-10 21:55	033010B-1
	Iron	5150	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	30-MAR-10 21:55	033010B-1
	Lead	515	ug/L	500	ug/L	103.1	90.0 – 110.0	P	30-MAR-10 21:55	033010B-1
	Magnesium	5310	ug/L	5000	ug/L	106.2	90.0 – 110.0	P	30-MAR-10 21:55	033010B-1
	Manganese	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	30-MAR-10 21:55	033010B-1
	Potassium	5290	ug/L	5000	ug/L	105.8	90.0 – 110.0	P	30-MAR-10 21:55	033010B-1
	Silver	508	ug/L	500	ug/L	101.5	90.0 – 110.0	P	30-MAR-10 21:55	033010B-1
	Sodium	10200	ug/L	10000	ug/L	102.2	90.0 – 110.0	P	30-MAR-10 21:55	033010B-1

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

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA4

<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>
CCV21	Vanadium	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	30-MAR-10 21:55	033010B-1
	Zinc	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	30-MAR-10 21:55	033010B-1
	Silver	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	01-APR-10 01:53	033110B-2
	Aluminum	5220	ug/L	5000	ug/L	104.4	90.0 – 110.0	P	30-MAR-10 22:16	033010B-1
	Antimony	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	30-MAR-10 22:16	033010B-1
	Barium	505	ug/L	500	ug/L	101	90.0 – 110.0	P	30-MAR-10 22:16	033010B-1
	Cadmium	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	30-MAR-10 22:16	033010B-1
	Calcium	5070	ug/L	5000	ug/L	101.3	90.0 – 110.0	P	30-MAR-10 22:16	033010B-1
	Chromium	500	ug/L	500	ug/L	99.9	90.0 – 110.0	P	30-MAR-10 22:16	033010B-1
	Cobalt	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	30-MAR-10 22:16	033010B-1
	Copper	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	30-MAR-10 22:16	033010B-1
	Iron	5050	ug/L	5000	ug/L	101	90.0 – 110.0	P	30-MAR-10 22:16	033010B-1
	Lead	511	ug/L	500	ug/L	102.1	90.0 – 110.0	P	30-MAR-10 22:16	033010B-1
	Magnesium	5180	ug/L	5000	ug/L	103.7	90.0 – 110.0	P	30-MAR-10 22:16	033010B-1
	Manganese	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	30-MAR-10 22:16	033010B-1
	Potassium	5210	ug/L	5000	ug/L	104.1	90.0 – 110.0	P	30-MAR-10 22:16	033010B-1
	Silver	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	30-MAR-10 22:16	033010B-1
	Sodium	10100	ug/L	10000	ug/L	101.2	90.0 – 110.0	P	30-MAR-10 22:16	033010B-1
	Vanadium	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	30-MAR-10 22:16	033010B-1
	Zinc	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	30-MAR-10 22:16	033010B-1
	Silver	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	01-APR-10 02:19	033110B-2
CCV22	Aluminum	5300	ug/L	5000	ug/L	106	90.0 – 110.0	P	30-MAR-10 22:35	033010B-1
	Antimony	512	ug/L	500	ug/L	102.3	90.0 – 110.0	P	30-MAR-10 22:35	033010B-1
	Barium	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	30-MAR-10 22:35	033010B-1
	Cadmium	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	30-MAR-10 22:35	033010B-1
	Calcium	5140	ug/L	5000	ug/L	102.8	90.0 – 110.0	P	30-MAR-10 22:35	033010B-1
	Chromium	505	ug/L	500	ug/L	101	90.0 – 110.0	P	30-MAR-10 22:35	033010B-1
	Cobalt	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	30-MAR-10 22:35	033010B-1

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

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA4

<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	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	30-MAR-10 22:35	033010B-1
	Iron	5140	ug/L	5000	ug/L	102.9	90.0 – 110.0	P	30-MAR-10 22:35	033010B-1
	Lead	514	ug/L	500	ug/L	102.7	90.0 – 110.0	P	30-MAR-10 22:35	033010B-1
	Magnesium	5290	ug/L	5000	ug/L	105.7	90.0 – 110.0	P	30-MAR-10 22:35	033010B-1
	Manganese	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	30-MAR-10 22:35	033010B-1
	Potassium	5320	ug/L	5000	ug/L	106.4	90.0 – 110.0	P	30-MAR-10 22:35	033010B-1
	Silver	510	ug/L	500	ug/L	101.9	90.0 – 110.0	P	30-MAR-10 22:35	033010B-1
	Sodium	10300	ug/L	10000	ug/L	102.7	90.0 – 110.0	P	30-MAR-10 22:35	033010B-1
	Vanadium	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	30-MAR-10 22:35	033010B-1
	Zinc	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	30-MAR-10 22:35	033010B-1
	Silver	476	ug/L	500	ug/L	95.3	90.0 – 110.0	P	01-APR-10 02:47	033110B-2
CCV23										
	Silver	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	01-APR-10 03:13	033110B-2
CCV24										
	Silver	476	ug/L	500	ug/L	95.2	90.0 – 110.0	P	01-APR-10 04:39	033110B-2
CCV25										
	Silver	476	ug/L	500	ug/L	95.2	90.0 – 110.0	P	01-APR-10 05:03	033110B-2

**METALS**  
**-2b-**  
**CRDL Standard for AA & ICP**

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: ICPMS5,MER536,OPTIMA4

<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	.171	ug/L	.2	ug/L	85.4	70.0 – 130.0	AV	17-MAR-10 12:41	031710S1-4
	Nickel	2.28	ug/L	2	ug/L	114.1	70.0 – 130.0	MS	13-APR-10 19:16	100413-3
	Thallium	1.22	ug/L	1	ug/L	121.8	70.0 – 130.0	MS	13-APR-10 19:16	100413-3
	Arsenic	6.05	ug/L	5	ug/L	121	70.0 – 130.0	MS	13-APR-10 19:16	100413-3
	Selenium	5.77	ug/L	5	ug/L	115.4	70.0 – 130.0	MS	13-APR-10 19:16	100413-3
	Uranium	.292	ug/L	.2	ug/L	146	70.0 – 130.0	MS	13-APR-10 19:16	100413-3
	Beryllium	.662	ug/L	.5	ug/L	132.4	70.0 – 130.0	MS	13-APR-10 19:16	100413-3
PQL02										
	Aluminum	218	ug/L	200	ug/L	108.8	70.0 – 130.0	P	30-MAR-10 15:21	033010B-1
	Silver	6.06	ug/L	5	ug/L	121.1	70.0 – 130.0	P	30-MAR-10 15:21	033010B-1
	Zinc	10.2	ug/L	10	ug/L	101.8	70.0 – 130.0	P	30-MAR-10 15:21	033010B-1
	Vanadium	5.56	ug/L	5	ug/L	111.3	70.0 – 130.0	P	30-MAR-10 15:21	033010B-1
	Copper	10.4	ug/L	10	ug/L	104.4	70.0 – 130.0	P	30-MAR-10 15:21	033010B-1
	Cobalt	5.18	ug/L	5	ug/L	103.7	70.0 – 130.0	P	30-MAR-10 15:21	033010B-1
	Chromium	4.93	ug/L	5	ug/L	98.6	70.0 – 130.0	P	30-MAR-10 15:21	033010B-1
	Cadmium	5.03	ug/L	5	ug/L	100.6	70.0 – 130.0	P	30-MAR-10 15:21	033010B-1
	Barium	5.22	ug/L	5	ug/L	104.5	70.0 – 130.0	P	30-MAR-10 15:21	033010B-1
	Antimony	10.4	ug/L	10	ug/L	103.9	70.0 – 130.0	P	30-MAR-10 15:21	033010B-1
	Sodium	294	ug/L	300	ug/L	98.1	70.0 – 130.0	P	30-MAR-10 15:21	033010B-1
	Calcium	201	ug/L	200	ug/L	100.8	70.0 – 130.0	P	30-MAR-10 15:21	033010B-1
	Potassium	189	ug/L	150	ug/L	126.2	70.0 – 130.0	P	30-MAR-10 15:21	033010B-1
	Iron	103	ug/L	100	ug/L	102.5	70.0 – 130.0	P	30-MAR-10 15:21	033010B-1
	Lead	9.3	ug/L	10	ug/L	93	70.0 – 130.0	P	30-MAR-10 15:21	033010B-1
	Magnesium	315	ug/L	300	ug/L	104.9	70.0 – 130.0	P	30-MAR-10 15:21	033010B-1
	Manganese	10.6	ug/L	10	ug/L	105.7	70.0 – 130.0	P	30-MAR-10 15:21	033010B-1
	Silver	4.61	ug/L	5	ug/L	92.3	70.0 – 130.0	P	31-MAR-10 18:51	033110B-2
	Silver	3.97	ug/L	5	ug/L	79.4	70.0 – 130.0	P	01-APR-10 01:24	033110B-2

**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-2200

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>
<b>ICB01</b>										
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	17-MAR-10 12:39	031710S1-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 15:18	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 15:18	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 15:18	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 15:18	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 15:18	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 15:18	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 15:18	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 15:18	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 15:18	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 15:18	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 15:18	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 15:18	033010B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	30-MAR-10 15:18	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 15:18	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 15:18	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 15:18	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 15:18	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 18:48	033110B-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 19:12	100413-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 19:12	100413-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 19:12	100413-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 19:12	100413-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 19:12	100413-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 19:12	100413-3
<b>CCB01</b>										
	Mercury	0.154	+/-2	J	0.068	0.2	SOL	AV	17-MAR-10 12:45	031710S1-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 15:40	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 15:40	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 15:40	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 15:40	033010B-1

**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-2200

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>
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 15:40	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 15:40	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 15:40	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 15:40	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 15:40	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 15:40	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 15:40	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 15:40	033010B-1
	Potassium	103.4	+/-250	J	64.0	250	SOL	P	30-MAR-10 15:40	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 15:40	033010B-1
	Sodium	98.8	+/-250	J	70.0	250	SOL	P	30-MAR-10 15:40	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 15:40	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 15:40	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:01	033110B-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 19:32	100413-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 19:32	100413-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 19:32	100413-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 19:32	100413-3
	Thallium	0.324	+/-1	J	0.3	1.0	SOL	MS	13-APR-10 19:32	100413-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 19:32	100413-3
<b>CCB02</b>	Mercury	0.098	+/-2	J	0.068	0.2	SOL	AV	17-MAR-10 13:09	031710S1-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 15:56	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 15:56	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 15:56	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 15:56	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 15:56	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 15:56	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 15:56	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 15:56	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 15:56	033010B-1

SW846



**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-2200

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	30-MAR-10 15:56	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 15:56	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 15:56	033010B-1
	Potassium	68.02	+/-250	J	64.0	250	SOL	P	30-MAR-10 15:56	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 15:56	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 15:56	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 15:56	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 15:56	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:08	033110B-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 20:13	100413-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 20:13	100413-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 20:13	100413-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 20:13	100413-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 20:13	100413-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 20:13	100413-3
<b>CCB03</b>	Mercury	0.071	+/-2	J	0.068	0.2	SOL	AV	17-MAR-10 13:32	031710S1-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 16:16	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 16:16	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 16:16	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 16:16	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 16:16	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 16:16	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 16:16	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 16:16	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 16:16	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 16:16	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 16:16	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 16:16	033010B-1
	Potassium	96.01	+/-250	J	64.0	250	SOL	P	30-MAR-10 16:16	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 16:16	033010B-1

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**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-2200

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>
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 16:16	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 16:16	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 16:16	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:29	033110B-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 20:46	100413-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 20:46	100413-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 20:46	100413-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 20:46	100413-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 20:46	100413-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 20:46	100413-3
<b>CCB04</b>										
	Mercury	0.109	+/-2	J	0.068	0.2	SOL	AV	17-MAR-10 13:44	031710S1-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 16:35	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 16:35	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 16:35	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 16:35	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 16:35	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 16:35	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 16:35	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 16:35	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 16:35	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 16:35	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 16:35	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 16:35	033010B-1
	Potassium	67.52	+/-250	J	64.0	250	SOL	P	30-MAR-10 16:35	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 16:35	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 16:35	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 16:35	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 16:35	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:50	033110B-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 21:23	100413-3

**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-2200

Contract: LANL01004

Lab Code: GEL

<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>
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 21:23	100413-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 21:23	100413-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 21:23	100413-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 21:23	100413-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 21:23	100413-3
<b>CCB05</b>	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	17-MAR-10 14:11	031710S1-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 16:59	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 16:59	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 16:59	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 16:59	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 16:59	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 16:59	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 16:59	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 16:59	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 16:59	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 16:59	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 16:59	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 16:59	033010B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	30-MAR-10 16:59	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 16:59	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 16:59	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 16:59	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 16:59	033010B-1
	Silver	-1.07	+/-5	J	1.0	5.0	SOL	P	31-MAR-10 20:21	033110B-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 22:04	100413-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 22:04	100413-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 22:04	100413-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 22:04	100413-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 22:04	100413-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 22:04	100413-3

SW846

**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-2200

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>
<b>CCB06</b>										
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	17-MAR-10 14:33	031710S1-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 17:21	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 17:21	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 17:21	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 17:21	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 17:21	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 17:21	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 17:21	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 17:21	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 17:21	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 17:21	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 17:21	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 17:21	033010B-1
	Potassium	64.34	+/-250	J	64.0	250	SOL	P	30-MAR-10 17:21	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 17:21	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 17:21	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 17:21	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 17:21	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 20:48	033110B-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 22:37	100413-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 22:37	100413-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 22:37	100413-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 22:37	100413-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 22:37	100413-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 22:37	100413-3
<b>CCB07</b>										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 17:42	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 17:42	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 17:42	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 17:42	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 17:42	033010B-1

SW846

**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-2200

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>
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 17:42	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 17:42	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 17:42	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 17:42	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 17:42	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 17:42	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 17:42	033010B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	30-MAR-10 17:42	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 17:42	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 17:42	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 17:42	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 17:42	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:18	033110B-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 23:05	100413-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 23:05	100413-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 23:05	100413-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 23:05	100413-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 23:05	100413-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 23:05	100413-3
<b>CCB08</b>	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 18:02	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 18:02	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 18:02	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 18:02	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 18:02	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 18:02	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 18:02	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 18:02	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 18:02	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 18:02	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 18:02	033010B-1

SW846

**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-2200

Contract: LANL01004

Lab Code: GEL

<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>
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 18:02	033010B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	30-MAR-10 18:02	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 18:02	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 18:02	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 18:02	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 18:02	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:41	033110B-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 23:51	100413-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 23:51	100413-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 23:51	100413-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 23:51	100413-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 23:51	100413-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 23:51	100413-3
<b>CCB09</b>	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 18:24	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 18:24	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 18:24	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 18:24	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 18:24	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 18:24	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 18:24	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 18:24	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 18:24	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 18:24	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 18:24	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 18:24	033010B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	30-MAR-10 18:24	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 18:24	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 18:24	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 18:24	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 18:24	033010B-1

SW846

**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-2200

Contract: LANL01004

Lab Code: GEL

<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>
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:57	033110B-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	14-APR-10 00:36	100413-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	14-APR-10 00:36	100413-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	14-APR-10 00:36	100413-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	14-APR-10 00:36	100413-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	14-APR-10 00:36	100413-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	14-APR-10 00:36	100413-3
<b>CCB10</b>	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 18:46	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 18:46	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 18:46	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 18:46	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 18:46	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 18:46	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 18:46	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 18:46	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 18:46	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 18:46	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 18:46	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 18:46	033010B-1
	Potassium	81.43	+/-250	J	64.0	250	SOL	P	30-MAR-10 18:46	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 18:46	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 18:46	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 18:46	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 18:46	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:14	033110B-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	14-APR-10 01:21	100413-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	14-APR-10 01:21	100413-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	14-APR-10 01:21	100413-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	14-APR-10 01:21	100413-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	14-APR-10 01:21	100413-3

SW846

**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-2200

Contract: LANL01004

Lab Code: GEL

<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>
<b>CCB11</b>	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	14-APR-10 01:21	100413-3
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 19:04	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 19:04	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 19:04	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 19:04	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 19:04	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 19:04	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 19:04	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 19:04	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 19:04	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 19:04	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 19:04	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 19:04	033010B-1
	Potassium	83.35	+/-250	J	64.0	250	SOL	P	30-MAR-10 19:04	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 19:04	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 19:04	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 19:04	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 19:04	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:37	033110B-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	14-APR-10 01:58	100413-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	14-APR-10 01:58	100413-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	14-APR-10 01:58	100413-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	14-APR-10 01:58	100413-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	14-APR-10 01:58	100413-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	14-APR-10 01:58	100413-3
<b>CCB12</b>	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 19:21	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 19:21	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 19:21	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 19:21	033010B-1

SW846



**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-2200

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>
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 19:21	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 19:21	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 19:21	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 19:21	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 19:21	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 19:21	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 19:21	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 19:21	033010B-1
	Potassium	120.74	+/-250	J	64.0	250	SOL	P	30-MAR-10 19:21	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 19:21	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 19:21	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 19:21	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 19:21	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:58	033110B-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	14-APR-10 02:31	100413-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	14-APR-10 02:31	100413-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	14-APR-10 02:31	100413-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	14-APR-10 02:31	100413-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	14-APR-10 02:31	100413-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	14-APR-10 02:31	100413-3
<b>CCB13</b>	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 19:45	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 19:45	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 19:45	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 19:45	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 19:45	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 19:45	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 19:45	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 19:45	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 19:45	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 19:45	033010B-1

SW846

**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-2200

Contract: LANL01004

Lab Code: GEL

<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>
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 19:45	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 19:45	033010B-1
	Potassium	114.92	+/-250	J	64.0	250	SOL	P	30-MAR-10 19:45	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 19:45	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 19:45	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 19:45	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 19:45	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 23:20	033110B-2
<b>CCB14</b>	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 20:10	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 20:10	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 20:10	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 20:10	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 20:10	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 20:10	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 20:10	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 20:10	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 20:10	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 20:10	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 20:10	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 20:10	033010B-1
	Potassium	111.16	+/-250	J	64.0	250	SOL	P	30-MAR-10 20:10	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 20:10	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 20:10	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 20:10	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 20:10	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 23:46	033110B-2
<b>CCB15</b>	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 20:29	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 20:29	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 20:29	033010B-1

**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-2200

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>
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 20:29	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 20:29	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 20:29	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 20:29	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 20:29	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 20:29	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 20:29	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 20:29	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 20:29	033010B-1
	Potassium	98.84	+/-250	J	64.0	250	SOL	P	30-MAR-10 20:29	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 20:29	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 20:29	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 20:29	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 20:29	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:04	033110B-2
<b>CCB16</b>	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 20:46	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 20:46	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 20:46	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 20:46	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 20:46	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 20:46	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 20:46	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 20:46	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 20:46	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 20:46	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 20:46	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 20:46	033010B-1
	Potassium	73.8	+/-250	J	64.0	250	SOL	P	30-MAR-10 20:46	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 20:46	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 20:46	033010B-1

**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-2200

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>
CCB17	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 20:46	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 20:46	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:20	033110B-2
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 21:06	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 21:06	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 21:06	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 21:06	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 21:06	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 21:06	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 21:06	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 21:06	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 21:06	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 21:06	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 21:06	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 21:06	033010B-1
	Potassium	105.87	+/-250	J	64.0	250	SOL	P	30-MAR-10 21:06	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 21:06	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 21:06	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 21:06	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 21:06	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:45	033110B-2
CCB18	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 21:20	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 21:20	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 21:20	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 21:20	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 21:20	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 21:20	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 21:20	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 21:20	033010B-1

SW846

**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-2200

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ng/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>
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 21:20	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 21:20	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 21:20	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 21:20	033010B-1
	Potassium	80.35	+/-250	J	64.0	250	SOL	P	30-MAR-10 21:20	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 21:20	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 21:20	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 21:20	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 21:20	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:09	033110B-2
CCB19	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 21:39	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 21:39	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 21:39	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 21:39	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 21:39	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 21:39	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 21:39	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 21:39	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 21:39	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 21:39	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 21:39	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 21:39	033010B-1
	Potassium	95.72	+/-250	J	64.0	250	SOL	P	30-MAR-10 21:39	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 21:39	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 21:39	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 21:39	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 21:39	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:32	033110B-2
CCB20	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 21:57	033010B-1

**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-2200

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>
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 21:57	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 21:57	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 21:57	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 21:57	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 21:57	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 21:57	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 21:57	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 21:57	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 21:57	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 21:57	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 21:57	033010B-1
	Potassium	160.19	+/-250	J	64.0	250	SOL	P	30-MAR-10 21:57	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 21:57	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 21:57	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 21:57	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 21:57	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:55	033110B-2
<b>CCB21</b>	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 22:18	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 22:18	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 22:18	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 22:18	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 22:18	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 22:18	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 22:18	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 22:18	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 22:18	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 22:18	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 22:18	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 22:18	033010B-1
	Potassium	132.82	+/-250	J	64.0	250	SOL	P	30-MAR-10 22:18	033010B-1

**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-2200

Contract: LANL01004

Lab Code: GEL

<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>
CCB22	Silver	1.23	+/-5	J	1.0	5.0	SOL	P	30-MAR-10 22:18	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 22:18	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 22:18	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 22:18	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 02:21	033110B-2
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 22:38	033010B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 22:38	033010B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 22:38	033010B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 22:38	033010B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 22:38	033010B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 22:38	033010B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 22:38	033010B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 22:38	033010B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 22:38	033010B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 22:38	033010B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 22:38	033010B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 22:38	033010B-1
	Potassium	125.45	+/-250	J	64.0	250	SOL	P	30-MAR-10 22:38	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 22:38	033010B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 22:38	033010B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 22:38	033010B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 22:38	033010B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 02:49	033110B-2
CCB23	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 03:15	033110B-2
CCB24	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 04:41	033110B-2
CCB25	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:05	033110B-2

**METALS**  
**-3b-**  
**PREPARATION BLANK SUMMARY**

**SDG NO.** 10-2200  
**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>
1202065014	Thallium	0.0598	mg/kg	+/-0.199	U	MS	0.0598	0.199
	Uranium	0.0132	mg/kg	+/-0.0398	U	MS	0.0132	0.0398
	Arsenic	0.199	mg/kg	+/-0.996	U	MS	0.199	0.996
	Selenium	0.498	mg/kg	+/-0.996	U	MS	0.498	0.996
	Nickel	0.0996	mg/kg	+/-0.398	U	MS	0.0996	0.398
	Beryllium	0.0199	mg/kg	+/-0.0996	U	MS	0.0199	0.0996
1202065045	Aluminum	6680	ug/Kg	+/-19600	U	P	6680	19600
	Antimony	324	ug/Kg	+/-982	U	P	324	982
	Barium	98.2	ug/Kg	+/-491	U	P	98.2	491
	Cadmium	98.2	ug/Kg	+/-491	U	P	98.2	491
	Calcium	7860	ug/Kg	+/-24600	U	P	7860	24600
	Chromium	147	ug/Kg	+/-491	U	P	147	491
	Cobalt	147	ug/Kg	+/-491	U	P	147	491
	Copper	295	ug/Kg	+/-982	U	P	295	982
	Iron	7860	ug/Kg	+/-24600	U	P	7860	24600
	Lead	246	ug/Kg	+/-982	U	P	246	982
	Magnesium	8350	ug/Kg	+/-29500	U	P	8350	29500
	Manganese	196	ug/Kg	+/-982	U	P	196	982
	Potassium	12400	ug/Kg	+/-24600	J	P	6290	24600
	Silver	98.2	ug/Kg	+/-491	U	P	98.2	491
	Sodium	6880	ug/Kg	+/-24600	U	P	6880	24600
	Vanadium	98.2	ug/Kg	+/-491	U	P	98.2	491
	Zinc	324	ug/Kg	+/-982	U	P	324	982
1202069779	Mercury	3.74	ug/kg	+/-11	U	AV	3.74	11



## METALS

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## Interference Check Sample

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA4

<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>
<b>ICSA01</b>									
	Aluminum	512000	ug/L	500000	ug/L	102	80.0 – 120.0	30-MAR-10 15:23	033010B-1
	Antimony	1.77	ug/L					30-MAR-10 15:23	033010B-1
	Barium	0.369	ug/L					30-MAR-10 15:23	033010B-1
	Cadmium	-1.71	ug/L					30-MAR-10 15:23	033010B-1
	Calcium	489000	ug/L	500000	ug/L	97.7	80.0 – 120.0	30-MAR-10 15:23	033010B-1
	Chromium	1.08	ug/L					30-MAR-10 15:23	033010B-1
	Cobalt	-6.45	ug/L					30-MAR-10 15:23	033010B-1
	Copper	3.23	ug/L					30-MAR-10 15:23	033010B-1
	Iron	193000	ug/L	200000	ug/L	96.6	80.0 – 120.0	30-MAR-10 15:23	033010B-1
	Lead	-4.72	ug/L					30-MAR-10 15:23	033010B-1
	Magnesium	491000	ug/L	500000	ug/L	98.1	80.0 – 120.0	30-MAR-10 15:23	033010B-1
	Manganese	3.1	ug/L					30-MAR-10 15:23	033010B-1
	Potassium	-113.0	ug/L					30-MAR-10 15:23	033010B-1
	Silver	0.19	ug/L					30-MAR-10 15:23	033010B-1
	Sodium	52.7	ug/L					30-MAR-10 15:23	033010B-1
	Vanadium	2.75	ug/L					30-MAR-10 15:23	033010B-1
	Zinc	8.7	ug/L					30-MAR-10 15:23	033010B-1
<b>ICSAB01</b>									
	Aluminum	511000	ug/L	500000	ug/L	102	80.0 – 120.0	30-MAR-10 15:25	033010B-1
	Antimony	509	ug/L	500	ug/L	102	80.0 – 120.0	30-MAR-10 15:25	033010B-1
	Barium	505	ug/L	500	ug/L	101	80.0 – 120.0	30-MAR-10 15:25	033010B-1
	Cadmium	480	ug/L	500	ug/L	96	80.0 – 120.0	30-MAR-10 15:25	033010B-1
	Calcium	487000	ug/L	500000	ug/L	97.4	80.0 – 120.0	30-MAR-10 15:25	033010B-1
	Chromium	493	ug/L	500	ug/L	98.6	80.0 – 120.0	30-MAR-10 15:25	033010B-1
	Cobalt	451	ug/L	500	ug/L	90.2	80.0 – 120.0	30-MAR-10 15:25	033010B-1
	Copper	547	ug/L	500	ug/L	109	80.0 – 120.0	30-MAR-10 15:25	033010B-1
	Iron	193000	ug/L	200000	ug/L	96.4	80.0 – 120.0	30-MAR-10 15:25	033010B-1
	Lead	472	ug/L	500	ug/L	94.5	80.0 – 120.0	30-MAR-10 15:25	033010B-1
	Magnesium	494000	ug/L	500000	ug/L	98.8	80.0 – 120.0	30-MAR-10 15:25	033010B-1

## METALS

-4-

## Interference Check Sample

SDG No: 10-2200

Contract: LANL01004

Lab Code: GEL

ICS:

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<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>
	Manganese	488	ug/L	500	ug/L	97.6	80.0 – 120.0	30-MAR-10 15:25	033010B-1
	Potassium	5610	ug/L	5000	ug/L	112	80.0 – 120.0	30-MAR-10 15:25	033010B-1
	Silver	271	ug/L	250	ug/L	108	80.0 – 120.0	30-MAR-10 15:25	033010B-1
	Sodium	5450	ug/L	5000	ug/L	109	80.0 – 120.0	30-MAR-10 15:25	033010B-1
	Vanadium	523	ug/L	500	ug/L	105	80.0 – 120.0	30-MAR-10 15:25	033010B-1
	Zinc	499	ug/L	500	ug/L	99.7	80.0 – 120.0	30-MAR-10 15:25	033010B-1

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**METALS**  
**-4-**  
**Interference Check Sample**

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**SDG No:** 10-2200

**Contract:** LANL01004

**Lab Code:** GEL

**ICS:** O2Si

**Instrument:** OPTIMA4

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<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	Silver	-2.44	ug/L					31-MAR-10 18:53	033110B-2
ICSAB01	Silver	267	ug/L	250	ug/L	107	80.0 - 120.0	31-MAR-10 18:55	033110B-2

## METALS

-4-

## Interference Check Sample

SDG No: 10-2200

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>
<b>ICSA01</b>									
	Arsenic	-0.361	ug/L					13-APR-10 19:20	100413-3
	Beryllium	0.103	ug/L					13-APR-10 19:20	100413-3
	Nickel	2.78	ug/L					13-APR-10 19:20	100413-3
	Selenium	-1.05	ug/L					13-APR-10 19:20	100413-3
	Thallium	-0.004	ug/L					13-APR-10 19:20	100413-3
	Uranium	-0.012	ug/L					13-APR-10 19:20	100413-3
<b>ICSAB01</b>									
	Arsenic	20.6	ug/L	20	ug/L	103	80.0 - 120.0	13-APR-10 19:24	100413-3
	Beryllium	22.1	ug/L	20	ug/L	110	80.0 - 120.0	13-APR-10 19:24	100413-3
	Nickel	21.7	ug/L	23.31	ug/L	93	80.0 - 120.0	13-APR-10 19:24	100413-3
	Selenium	20.9	ug/L	20	ug/L	104	80.0 - 120.0	13-APR-10 19:24	100413-3
	Thallium	19.3	ug/L	20	ug/L	96.7	80.0 - 120.0	13-APR-10 19:24	100413-3
	Uranium	21.4	ug/L	20	ug/L	107	80.0 - 120.0	13-APR-10 19:24	100413-3

## METALS

-5a-

## Matrix Spike Summary

SDG NO. 10-2200

Client ID: RE36-10-8466S

Contract: LANL01004

Level: Low

Matrix: SOIL

% Solids: 88

Sample ID: 248526001

Spike ID: 1202065017

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Nickel	mg/kg	75-125	9.59		3.22		5.61	114		MS
Selenium	mg/kg	75-125	2		0.567	U	2.24	89		MS
Thallium	mg/kg	75-125	9.3		0.0681	U	11.2	82.8		MS
Uranium	mg/kg	75-125	5.92		0.579		5.61	95.3		MS
Arsenic	mg/kg	75-125	9.62		0.855	J	8.97	97.7		MS
Beryllium	mg/kg	75-125	5.95		0.46		5.61	98		MS

## METALS

-5a-

## Matrix Spike Duplicate Summary

SDG NO. 10-2200 Client ID: RE36-10-8466SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 88

Sample ID: 248526001 Spike ID: 1202065024

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/kg	75-125	8.1		0.855	J	8.2	88.4		MS
Beryllium	mg/kg	75-125	4.98		0.46		5.12	88.3		MS
Nickel	mg/kg	75-125	9.18		3.22		5.12	116		MS
Selenium	mg/kg	75-125	1.65		0.567	U	2.05	80.5		MS
Thallium	mg/kg	75-125	8.91		0.0681	U	10.2	86.8		MS
Uranium	mg/kg	75-125	5.4		0.579		5.12	94.2		MS

## METALS

-5a-

## Matrix Spike Summary

SDG NO. 10-2200 Client ID: RE36-10-8466S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 88

Sample ID: 248526001 Spike ID: 1202065048

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Potassium	ug/Kg	75-125	4080000		1030000		533000	572	N	P
Silver	ug/Kg	75-125	51200		108	U	53300	95.9		P
Sodium	ug/Kg	75-125	2040000		1720000		533000	59.9	N	P
Vanadium	ug/Kg	75-125	72000		7270		53300	121		P
Zinc	ug/Kg	75-125	294000		37700		53300	480	N	P
Aluminum	ug/Kg		9390000		2210000		533000	1350	N/A	P
Antimony	ug/Kg	75-125	47500		357	U	53300	89.1		P
Barium	ug/Kg	75-125	148000		37400		53300	207	N	P
Cadmium	ug/Kg	75-125	52000		108	U	53300	97.5		P
Calcium	ug/Kg	75-125	1220000		320000		533000	169	N	P
Chromium	ug/Kg	75-125	60800		17300		53300	81.5		P
Cobalt	ug/Kg	75-125	54900		1720		53300	99.8		P
Copper	ug/Kg	75-125	58800		3160		53300	104		P
Iron	ug/Kg		13000000		7510000		533000	1040	N/A	P
Lead	ug/Kg	75-125	91300		4740		53300	162	N	P
Magnesium	ug/Kg	75-125	4080000		378000		533000	695	N	P
Manganese	ug/Kg		605000		296000		53300	580	N/A	P

## METALS

-5a-

## Matrix Spike Duplicate Summary

SDG NO. 10-2200 Client ID RE36-10-8466SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 88

Sample ID: 248526001 Spike ID: 1202065050

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg	75-125	4110000		2210000		556000	342	N	P
Antimony	ug/Kg	75-125	51200		357	U	55600	92.1		P
Barium	ug/Kg	75-125	86900		37400		55600	88.9		P
Cadmium	ug/Kg	75-125	55700		108	U	55600	100		P
Calcium	ug/Kg	75-125	888000		320000		556000	102		P
Chromium	ug/Kg	75-125	75300		17300		55600	104		P
Cobalt	ug/Kg	75-125	56200		1720		55600	97.9		P
Copper	ug/Kg	75-125	61300		3160		55600	104		P
Iron	ug/Kg		8300000		7510000		556000	141	N/A	P
Lead	ug/Kg	75-125	60100		4740		55600	99.5		P
Magnesium	ug/Kg	75-125	1050000		378000		556000	122		P
Manganese	ug/Kg		319000		296000		55600	42.6	N/A	P
Potassium	ug/Kg	75-125	1760000		1030000		556000	131	N	P
Silver	ug/Kg	75-125	54100		108	U	55600	97.3		P
Sodium	ug/Kg	75-125	2320000		1720000		556000	106		P
Vanadium	ug/Kg	75-125	62400		7270		55600	99		P
Zinc	ug/Kg	75-125	92600		37700		55600	98.7		P



## METALS

-5a-

## Matrix Spike Summary

SDG NO. 10-2200

Client ID RE36-10-8288S

Contract: LANL01004

Level: Low

Matrix: SOIL

% Solids: 84

Sample ID: 248520001

Spike ID: 1202069782

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/kg	75-125	209		37.8		141	121		AV

## METALS

-5a-

## Matrix Spike Duplicate Summary

SDG NO. 10-2200 Client ID: RE36-10-8288SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 84

Sample ID: 248520001 Spike ID: 1202069784

<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	194		37.8		135	116		AV

**Metals**  
**-6-**  
**Duplicate Sample Summary**

**SDG No.:** 10-2200

**Contract:** LANL01004

**Lab Code:** GEL

**Matrix:** SOLID

**Level:** Low

**Client ID:** RE36-10-8466D

**Sample ID:** 248526001

**Duplicate ID:** 1202065016

**Percent Solids for Dup:** 88

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-1.07	0.855 J		0.953 J		10.9		MS
Beryllium	mg/kg	+/-1.07	0.46		0.473		2.85		MS
Nickel	mg/kg	+/-20%	3.22		3.89		18.7		MS
Selenium	mg/kg		0.567 U		0.535 U				MS
Thallium	mg/kg		0.0681 U		0.0642 U				MS
Uranium	mg/kg	+/-20%	0.579		0.514		11.9		MS

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Metals  
-6-  
Duplicate Sample Summary

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SDG No.: 10-2200

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-8466SD

Sample ID: 1202065017

Duplicate ID: 1202065024

Percent Solids for Dup: 88

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Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-20	9.62		8.1		17.2		MS
Beryllium	mg/kg	+/-20	5.95		4.98		17.8		MS
Nickel	mg/kg	+/-20	9.59		9.18		4.39		MS
Selenium	mg/kg	+/-20	2		1.65		19		MS
Thallium	mg/kg	+/-20	9.3		8.91		4.27		MS
Uranium	mg/kg	+/-20	5.92		5.4		9.15		MS

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**Metals**  
**-6-**  
**Duplicate Sample Summary**

SDG No.: 10-2200

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-8466D

Sample ID: 248526001

Duplicate ID: 1202065047

Percent Solids for Dup: 88

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20%	2210000		2590000		15.7		P
Antimony	ug/Kg		357 U		357 U				P
Barium	ug/Kg	+/-20%	37400		33100		12.1		P
Cadmium	ug/Kg		108 U		108 U				P
Calcium	ug/Kg	+/-20%	320000		476000		39.2	*	P
Chromium	ug/Kg	+/-20%	17300		13500		24.4	*	P
Cobalt	ug/Kg	+/-540	1720		1820		5.47		P
Copper	ug/Kg	+/-1080	3160		3660		14.8		P
Iron	ug/Kg	+/-20%	7510000		8350000		10.6		P
Lead	ug/Kg	+/-1080	4740		5050		6.28		P
Magnesium	ug/Kg	+/-20%	378000		426000		12.2		P
Manganese	ug/Kg	+/-20%	296000		275000		7.13		P
Potassium	ug/Kg	+/-20%	1030000		1110000		7.7		P
Silver	ug/Kg		108 U		108 U				P
Sodium	ug/Kg	+/-20%	1720000		1820000		5.45		P
Vanadium	ug/Kg	+/-20%	7270		8660		17.5		P
Zinc	ug/Kg	+/-20%	37700		40300		6.66		P

**Metals**  
**-6-**  
**Duplicate Sample Summary**

SDG No.: 10-2200

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-8466SD

Sample ID: 1202065048

Duplicate ID: 1202065050

Percent Solids for Dup: 88

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20	9390000		4110000		78.2	*	P
Antimony	ug/Kg	+/-20	47500		51200		7.51		P
Barium	ug/Kg	+/-20	148000		86900		52.1	*	P
Cadmium	ug/Kg	+/-20	52000		55700		6.74		P
Calcium	ug/Kg	+/-20	1220000		888000		31.6	*	P
Chromium	ug/Kg	+/-20	60800		75300		21.4	*	P
Cobalt	ug/Kg	+/-20	54900		56200		2.28		P
Copper	ug/Kg	+/-20	58800		61300		4.1		P
Iron	ug/Kg	+/-20	13000000		8300000		44.4	*	P
Lead	ug/Kg	+/-20	91300		60100		41.2	*	P
Magnesium	ug/Kg	+/-20	4080000		1050000		118	*	P
Manganese	ug/Kg	+/-20	605000		319000		61.8	*	P
Potassium	ug/Kg	+/-20	4080000		1760000		79.5	*	P
Silver	ug/Kg	+/-20	51200		54100		5.58		P
Sodium	ug/Kg	+/-20	2040000		2320000		12.5		P
Vanadium	ug/Kg	+/-20	72000		62400		14.4		P
Zinc	ug/Kg	+/-20	294000		92600		104	*	P

**Metals**  
**–6–**  
**Duplicate Sample Summary**

**SDG No.:** 10–2200**Contract:** LANL01004**Lab Code:** GEL**Matrix:** SOLID**Level:** Low**Client ID:** RE36–10–8288D**Sample ID:** 248520001**Duplicate ID:** 1202069781**Percent Solids for Dup:** 84

<b>Analyte</b>	<b>Units</b>	<b>Acceptance Limit</b>	<b>Sample Result</b>	<b>C</b>	<b>Duplicate Result</b>	<b>C</b>	<b>RPD</b>	<b>Qual</b>	<b>M</b>
Mercury	ug/kg	+/-12.4	37.8		34.5		9.27		AV

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**Metals**  
**-6-**  
**Duplicate Sample Summary**

SDG No.: 10-2200

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-8288SD

Sample ID: 1202069782

Duplicate ID: 1202069784

Percent Solids for Dup: 84

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-20	209		194		7.47		AV



## METALS

-7-

## Laboratory Control Sample Summary

SDG NO. 10-2200

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>
1202065015								
	Arsenic	mg/kg	104	114		110	78-123	MS
	Beryllium	mg/kg	77.6	90		116	84-116	MS
	Nickel	mg/kg	134	148		110	78-123	MS
	Selenium	mg/kg	286	321		112	77-123	MS
	Thallium	mg/kg	121	141		116	78-122	MS
	Uranium	mg/kg	2.13	2.13		99.9	73-127	MS

## METALS

-7-

## Laboratory Control Sample Summary

SDG NO. 10-2200

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>
1202065046								
	Antimony	ug/Kg	173000	111000		64.1	71-130	P
	Barium	ug/Kg	198000	202000		102	80-120	P
	Cadmium	ug/Kg	60700	57300		94.4	81-120	P
	Calcium	ug/Kg	9870000	9740000		98.7	83-117	P
	Chromium	ug/Kg	236000	223000		94.5	80-120	P
	Cobalt	ug/Kg	91200	88700		97.3	81-120	P
	Copper	ug/Kg	174000	178000		102	81-118	P
	Iron	ug/Kg	18000000	18500000		103	51-149	P
	Lead	ug/Kg	86000	83400		96.9	79-121	P
	Magnesium	ug/Kg	4000000	3750000		93.6	79-122	P
	Manganese	ug/Kg	558000	530000		95	81-119	P
	Potassium	ug/Kg	4300000	4040000		94	74-127	P
	Silver	ug/Kg	30100	29900		99.5	66-134	P
	Sodium	ug/Kg	1020000	986000		96.7	74-127	P
	Vanadium	ug/Kg	115000	119000		103	79-121	P
	Zinc	ug/Kg	594000	563000		94.8	80-121	P
	Aluminum	ug/Kg	10500000	8890000		84.7	56-144	P

## METALS

-7-

## Laboratory Control Sample Summary

SDG NO. 10-2200

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>
1202069780	Mercury	ug/kg	5150	6010		117	71.6-128.3	AV

## METALS

-9-

## Serial Dilution Sample Summary

SDG NO. 10-2200 Client ID: RE36-10-8466L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 248526001 Serial Dilution ID: 1202065018

Analyte	<u>Initial Value ng/L</u>	<u>C</u>	<u>Serial Value ng/L</u>	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Arsenic	3.77	J	5	U	100			MS
Beryllium	2.03		1.92	J	5.67			MS
Nickel	14.2		15.6		9.51			MS
Selenium	2.5	U	12.5	U				MS
Thallium	.3	U	1.5	U				MS
Uranium	2.55		2.78		8.82			MS

## METALS

-9-

## Serial Dilution Sample Summary

SDG NO. 10-2200

Client ID: RE36-10-8466L

Contract: LANL01004

Matrix: SOLID

Level: Low

Sample ID: 248526001

Serial Dilution ID: 1202065049

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	20400		20900		2.21		10	P
Antimony	3.3	U	16.5	U				P
Barium	345		351		1.74		10	P
Cadmium	1	U	5	U				P
Calcium	2960		2980		.676			P
Chromium	160		159		.625		10	P
Cobalt	15.9		15.8	J	.943			P
Copper	29.2		30.2	J	3.42			P
Iron	69400		70000		.865		10	P
Lead	43.8		37.8	J	13.7			P
Magnesium	3490		3560		1.86			P
Manganese	2730		2770		1.47		10	P
Potassium	9520		10200		6.62		10	P
Silver	1	U	5	U				P
Sodium	15900		16300		2.2		10	P
Vanadium	67.1		66		1.64		10	P
Zinc	348		349		.144		10	P

## METALS

-9-

## Serial Dilution Sample Summary

SDG NO. 10-2200 Client ID: RE36-10-8288L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 248520001 Serial Dilution ID: 1202069783

<u>Analyte</u>	<u>Initial Value ng/L</u>	<u>C</u>	<u>Serial Value ng/L</u>	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Mercury	.588		.34	U	100			AV

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**METALS**  
**-13-**  
**SAMPLE PREPARATION SUMMARY**

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SDG No: 10-2200

Method Type: P

Contract: LANL01004

Lab Code: GEL

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<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 962573							
1202065045	MB for batch 962573	MB	S	16-MAR-10	.509g	50mL	
1202065046	LCS for batch 962573	LCS	S	16-MAR-10	.517g	50mL	
1202065048	RE36-10-8466S	MS	S	16-MAR-10	.535g	50mL	
1202065050	RE36-10-8466SD	MSD	S	16-MAR-10	.513g	50mL	
1202065047	RE36-10-8466D	DUP	S	16-MAR-10	.528g	50mL	
248520001	RE36-10-8288	SAMPLE	S	16-MAR-10	.503g	50mL	
248520002	RE36-10-8279	SAMPLE	S	16-MAR-10	.538g	50mL	
248520003	RE36-10-8277	SAMPLE	S	16-MAR-10	.55g	50mL	
248520004	RE36-10-8280	SAMPLE	S	16-MAR-10	.515g	50mL	
248520005	RE36-10-8278	SAMPLE	S	16-MAR-10	.509g	50mL	
248520006	RE36-10-8274	SAMPLE	S	16-MAR-10	.583g	50mL	
248520007	RE36-10-8291	SAMPLE	S	16-MAR-10	.534g	50mL	
248520008	RE36-10-8287	SAMPLE	S	16-MAR-10	.533g	50mL	
248520009	RE36-10-8273	SAMPLE	S	16-MAR-10	.544g	50mL	
248520010	RE36-10-8275	SAMPLE	S	16-MAR-10	.561g	50mL	
248520011	RE36-10-8276	SAMPLE	S	16-MAR-10	.516g	50mL	

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SW846

**METALS**  
**-13-**  
**SAMPLE PREPARATION SUMMARY**

SDG No: 10-2200

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 962563							
1202065014	MB for batch 962563	MB	S	16-MAR-10	.502g	50mL	
1202065015	LCS for batch 962563	LCS	S	16-MAR-10	.515g	50mL	
1202065017	RE36-10-8466S	MS	S	16-MAR-10	.509g	50mL	
1202065024	RE36-10-8466SD	MSD	S	16-MAR-10	.557g	50mL	
1202065016	RE36-10-8466D	DUP	S	16-MAR-10	.533g	50mL	
248520001	RE36-10-8288	SAMPLE	S	16-MAR-10	.52g	50mL	
248520002	RE36-10-8279	SAMPLE	S	16-MAR-10	.517g	50mL	
248520003	RE36-10-8277	SAMPLE	S	16-MAR-10	.501g	50mL	
248520004	RE36-10-8280	SAMPLE	S	16-MAR-10	.514g	50mL	
248520005	RE36-10-8278	SAMPLE	S	16-MAR-10	.512g	50mL	
248520006	RE36-10-8274	SAMPLE	S	16-MAR-10	.583g	50mL	
248520007	RE36-10-8291	SAMPLE	S	16-MAR-10	.528g	50mL	
248520008	RE36-10-8287	SAMPLE	S	16-MAR-10	.541g	50mL	
248520009	RE36-10-8273	SAMPLE	S	16-MAR-10	.506g	50mL	
248520010	RE36-10-8275	SAMPLE	S	16-MAR-10	.537g	50mL	
248520011	RE36-10-8276	SAMPLE	S	16-MAR-10	.534g	50mL	

SW846



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**METALS**  
**-13-**  
**SAMPLE PREPARATION SUMMARY**

SDG No: 10-2200

Method Type: AV

Contract: LANL01004

Lab Code: GEL

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<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 964748							
1202069779	MB for batch 964748	MB	S	16-MAR-10	.545g	30mL	
1202069780	LCS for batch 964748	LCS	S	16-MAR-10	.209g	30mL	
1202069782	RE36-10-8288S	MS	S	16-MAR-10	.51g	30mL	
1202069784	RE36-10-8288SD	MSD	S	16-MAR-10	.533g	30mL	
1202069781	RE36-10-8288D	DUP	S	16-MAR-10	.581g	30mL	
248520001	RE36-10-8288	SAMPLE	S	16-MAR-10	.558g	30mL	
248520002	RE36-10-8279	SAMPLE	S	16-MAR-10	.53g	30mL	
248520003	RE36-10-8277	SAMPLE	S	16-MAR-10	.56g	30mL	
248520004	RE36-10-8280	SAMPLE	S	16-MAR-10	.537g	30mL	
248520005	RE36-10-8278	SAMPLE	S	16-MAR-10	.517g	30mL	
248520006	RE36-10-8274	SAMPLE	S	16-MAR-10	.549g	30mL	
248520007	RE36-10-8291	SAMPLE	S	16-MAR-10	.513g	30mL	
248520008	RE36-10-8287	SAMPLE	S	16-MAR-10	.5g	30mL	
248520009	RE36-10-8273	SAMPLE	S	16-MAR-10	.513g	30mL	
248520010	RE36-10-8275	SAMPLE	S	16-MAR-10	.514g	30mL	
248520011	RE36-10-8276	SAMPLE	S	16-MAR-10	.525g	30mL	

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SW846

**Metals**  
**-14-**  
**Analysis Run Log**

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 13-APR-10

End Date: 14-APR-10

Client Sdg: 10-2200

Method MS

Data File: 100413-3

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	18:56:00			X		X											X	X				X	X		
S10	1	19:00:00			X		X											X	X				X	X		
S100	1	19:04:00			X		X											X	X				X	X		
ICV01	1	19:08:00			X		X											X	X				X	X		
ICB01	1	19:12:00			X		X											X	X				X	X		
CRDL01	1	19:16:00			X		X											X	X				X	X		
ICSA01	1	19:20:00			X		X											X	X				X	X		
ICSAB01	1	19:24:00			X		X											X	X				X	X		
CCV01	1	19:28:00			X		X											X	X				X	X		
CCB01	1	19:32:00			X		X											X	X				X	X		
ZZZZZZ	2	19:37:00																								
ZZZZZZ	40	19:41:00																								
ZZZZZZ	2	19:45:00																								
ZZZZZZ	2	19:49:00																								
ZZZZZZ	2	19:53:00																								
ZZZZZZ	2	19:57:00																								
ZZZZZZ	10	20:01:00																								
ZZZZZZ	2	20:05:00																								
CCV02	1	20:09:00			X		X											X	X				X	X		
CCB02	1	20:13:00			X		X											X	X				X	X		
ZZZZZZ	2	20:17:00																								
ZZZZZZ	2	20:21:00																								
ZZZZZZ	2	20:26:00																								
ZZZZZZ	2	20:30:00																								
ZZZZZZ	2	20:34:00																								
ZZZZZZ	2	20:38:00																								
CCV03	1	20:42:00			X		X											X	X				X	X		
CCB03	1	20:46:00			X		X											X	X				X	X		
ZZZZZZ	2	20:50:00																								
ZZZZZZ	2	20:54:00																								
ZZZZZZ	2	20:58:00																								
ZZZZZZ	2	21:02:00																								
ZZZZZZ	2	21:06:00																								
ZZZZZZ	2	21:11:00																								
ZZZZZZ	2	21:15:00																								
CCV04	1	21:19:00			X		X											X	X				X	X		
CCB04	1	21:23:00			X		X											X	X				X	X		
ZZZZZZ	2	21:27:00																								
ZZZZZZ	40	21:31:00																								
ZZZZZZ	2	21:35:00																								

**Metals**  
**-14-**  
**Analysis Run Log**

Samp No.	D/F	Run Time
//////	2	21:39:00
//////	2	21:43:00
//////	2	21:47:00
//////	10	21:51:00
//////	2	21:56:00
CCV05	1	22:00:00
CCB05	1	22:04:00
//////	2	22:08:00
//////	2	22:12:00
//////	2	22:16:00
//////	2	22:20:00
//////	2	22:24:00
//////	2	22:28:00
CCV06	1	22:33:00
CCB06	1	22:37:00
//////	2	22:41:00
//////	2	22:45:00
//////	2	22:49:00
//////	2	22:53:00
//////	2	22:57:00
CCV07	1	23:01:00
CCB07	1	23:05:00
//////	2	23:10:00
//////	40	23:14:00
//////	2	23:18:00
//////	2	23:22:00
//////	2	23:26:00
//////	2	23:30:00
//////	10	23:34:00
//////	2	23:38:00
//////	2	23:42:00
CCV08	1	23:47:00
CCB08	1	23:51:00
//////	2	23:55:00
//////	2	23:59:00
//////	2	00:03:00
//////	2	00:07:00
//////	2	00:11:00
//////	2	00:15:00
//////	2	00:20:00

**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	2	00:24:00																								
ZZZZZZ	2	00:28:00																								
CCV09	1	00:32:00			X		X											X	X				X	X		
CCB09	1	00:36:00			X		X											X	X				X	X		
1202065014	2	00:40:00			X		X											X	X				X	X		
1202065015	40	00:44:00			X		X											X	X				X	X		
ZZZZZZ	2	00:48:00																								
ZZZZZZ	2	00:53:00																								
ZZZZZZ	2	00:57:00																								
ZZZZZZ	2	01:01:00																								
248520001	2	01:05:00			X		X											X	X				X	X		
248520002	2	01:09:00			X		X											X	X				X	X		
248520003	2	01:13:00			X		X											X	X				X	X		
CCV10	1	01:17:00			X		X											X	X				X	X		
CCB10	1	01:21:00			X		X											X	X				X	X		
248520004	2	01:25:00			X		X											X	X				X	X		
248520005	2	01:29:00			X		X											X	X				X	X		
248520006	2	01:33:00			X		X											X	X				X	X		
248520007	2	01:38:00			X		X											X	X				X	X		
248520008	2	01:42:00			X		X											X	X				X	X		
248520009	2	01:46:00			X		X											X	X				X	X		
248520010	2	01:50:00			X		X											X	X				X	X		
CCV11	1	01:54:00			X		X											X	X				X	X		
CCB11	1	01:58:00			X		X											X	X				X	X		
248520011	2	02:02:00			X		X											X	X				X	X		
ZZZZZZ	2	02:06:00																								
1202065016	2	02:10:00			X		X											X	X				X	X		
1202065017	2	02:14:00			X		X											X	X				X	X		
1202065024	2	02:18:00			X		X											X	X				X	X		
1202065018	10	02:23:00			X		X											X	X				X	X		
CCV12	1	02:27:00			X		X											X	X				X	X		
CCB12	1	02:31:00			X		X											X	X				X	X		

**Metals**  
**-14-**  
**Analysis Run Log**

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA4

Start Date: 30-MAR-10

End Date: 30-MAR-10

Client Sdg: 10-2200

Method P

Data File: 033010B-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	15:06:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
S0.1	1	15:09:00		X		X		X		X	X	X		X		X			X		X				X	X
S0.5	1	15:11:00	X	X		X		X	X	X	X	X		X	X	X			X		X				X	X
SCAL	1	15:13:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
S10	1	15:15:00	X					X					X		X							X				
ICV01	1	15:16:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICB01	1	15:18:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
PQL01	1	15:21:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICSA01	1	15:23:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICSAB01	1	15:25:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR01	1	15:27:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR02	1	15:29:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	15:30:00																								
ZZZZZZ	1	15:32:00																								
CCV01	1	15:38:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB01	1	15:40:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	5	15:43:00																								
ZZZZZZ	10	15:45:00																								
ZZZZZZ	10	15:47:00																								
ZZZZZZ	10	15:49:00																								
ZZZZZZ	10	15:51:00																								
CCV02	1	15:54:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB02	1	15:56:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	15:59:00																								
ZZZZZZ	1	16:02:00																								
ZZZZZZ	1	16:03:00																								
ZZZZZZ	1	16:05:00																								
ZZZZZZ	1	16:07:00																								
ZZZZZZ	1	16:09:00																								
ZZZZZZ	5	16:10:00																								
ZZZZZZ	1	16:12:00																								
CCV03	1	16:14:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB03	1	16:16:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	16:19:00																								
ZZZZZZ	1	16:22:00																								
ZZZZZZ	1	16:24:00																								
ZZZZZZ	1	16:26:00																								
ZZZZZZ	1	16:28:00																								
ZZZZZZ	1	16:29:00																								
ZZZZZZ	5	16:30:00																								

**Metals**  
**-14-**  
**Analysis Run Log**

[illegible]

**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	18:41:00																								
CCV10	1	18:44:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB10	1	18:46:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	18:49:00																								
ZZZZZZ	1	18:52:00																								
ZZZZZZ	1	18:53:00																								
ZZZZZZ	1	18:55:00																								
ZZZZZZ	1	18:57:00																								
ZZZZZZ	1	18:58:00																								
ZZZZZZ	5	19:00:00																								
CCV11	1	19:02:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB11	1	19:04:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	19:07:00																								
ZZZZZZ	1	19:10:00																								
ZZZZZZ	1	19:11:00																								
ZZZZZZ	1	19:13:00																								
ZZZZZZ	1	19:15:00																								
ZZZZZZ	1	19:16:00																								
ZZZZZZ	5	19:17:00																								
CCV12	1	19:19:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB12	1	19:21:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	19:24:00																								
ZZZZZZ	1	19:28:00																								
ZZZZZZ	1	19:29:00																								
ZZZZZZ	1	19:31:00																								
ZZZZZZ	1	19:33:00																								
ZZZZZZ	1	19:34:00																								
ZZZZZZ	5	19:35:00																								
ZZZZZZ	1	19:37:00																								
ZZZZZZ	1	19:39:00																								
ZZZZZZ	1	19:41:00																								
CCV13	1	19:43:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB13	1	19:45:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	19:49:00																								
ZZZZZZ	1	19:52:00																								
ZZZZZZ	1	19:53:00																								
ZZZZZZ	1	19:55:00																								
ZZZZZZ	1	19:57:00																								
ZZZZZZ	1	19:58:00																								
ZZZZZZ	5	19:59:00																								

**Metals**  
**-14-**  
**Analysis Run Log**

Samp No.	D/F	Run Time																								
ZZZZZZ	1	20:02:00																								
ZZZZZZ	1	20:04:00																								
ZZZZZZ	1	20:06:00																								
CCV14	1	20:08:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB14	1	20:10:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	20:13:00																								
ZZZZZZ	1	20:17:00																								
ZZZZZZ	1	20:18:00																								
ZZZZZZ	1	20:20:00																								
ZZZZZZ	1	20:22:00																								
ZZZZZZ	1	20:23:00																								
ZZZZZZ	5	20:25:00																								
CCV15	1	20:27:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB15	1	20:29:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	20:32:00																								
ZZZZZZ	1	20:34:00																								
ZZZZZZ	1	20:36:00																								
ZZZZZZ	1	20:38:00																								
ZZZZZZ	1	20:40:00																								
ZZZZZZ	1	20:42:00																								
CCV16	1	20:44:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB16	1	20:46:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	20:49:00																								
ZZZZZZ	1	20:52:00																								
ZZZZZZ	1	20:54:00																								
ZZZZZZ	1	20:56:00																								
ZZZZZZ	1	20:58:00																								
ZZZZZZ	1	21:00:00																								
ZZZZZZ	5	21:02:00																								
CCV17	1	21:04:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB17	1	21:06:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	21:09:00																								
ZZZZZZ	1	21:11:00																								
ZZZZZZ	1	21:14:00																								
ZZZZZZ	1	21:16:00																								
CCV18	1	21:18:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB18	1	21:20:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	21:23:00																								
ZZZZZZ	1	21:26:00																								
ZZZZZZ	1	21:27:00																								



**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	21:29:00																								
ZZZZZZ	1	21:31:00																								
ZZZZZZ	1	21:32:00																								
ZZZZZZ	5	21:33:00																								
ZZZZZZ	1	21:35:00																								
CCV19	1	21:37:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB19	1	21:39:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
1202065045	1	21:42:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
1202065046	1	21:45:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	21:46:00																								
1202065047	1	21:48:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
1202065048	1	21:50:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
1202065050	1	21:51:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
1202065049	5	21:53:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV20	1	21:55:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB20	1	21:57:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	22:00:00																								
ZZZZZZ	1	22:02:00																								
ZZZZZZ	1	22:04:00																								
ZZZZZZ	1	22:06:00																								
248520001	1	22:08:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248520002	1	22:10:00	X	X		X		X	X	X	X	X	X	X	X	X			X			X			X	X
248520003	1	22:12:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248520004	1	22:14:00	X	X		X		X	X	X	X	X	X	X	X	X			X			X			X	X
CCV21	1	22:16:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB21	1	22:18:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248520005	1	22:21:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248520006	1	22:23:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248520007	1	22:25:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248520008	1	22:27:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248520009	1	22:29:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248520010	1	22:31:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248520011	1	22:33:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV22	1	22:35:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB22	1	22:38:00	X	X		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: OPTIMA4

Start Date: 31-MAR-10

End Date: 01-APR-10

Client Sdg: 10-2200

Method P

Data File: 033110B-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	18:36:00																			X					
S0.1	1	18:39:00																			X					
S0.5	1	18:41:00																			X					
SCAL	1	18:43:00																			X					
S10	1	18:45:00																								
ICV01	1	18:47:00																			X					
ICB01	1	18:48:00																			X					
PQL01	1	18:51:00																			X					
ICSA01	1	18:53:00																			X					
ICSAB01	1	18:55:00																			X					
LR01	1	18:56:00																			X					
LR02	1	18:57:00																			X					
CCV01	1	18:59:00																			X					
CCB01	1	19:01:00																			X					
CCV02	1	19:06:00																			X					
CCB02	1	19:08:00																			X					
ZZZZZZ	1	19:11:00																								
ZZZZZZ	1	19:14:00																								
ZZZZZZ	1	19:16:00																								
ZZZZZZ	1	19:19:00																								
ZZZZZZ	1	19:22:00																								
ZZZZZZ	5	19:24:00																								
CCV03	1	19:27:00																			X					
CCB03	1	19:29:00																			X					
ZZZZZZ	1	19:32:00																								
ZZZZZZ	1	19:35:00																								
ZZZZZZ	1	19:38:00																								
ZZZZZZ	1	19:41:00																								
ZZZZZZ	1	19:44:00																								
CCV04	1	19:48:00																			X					
CCB04	1	19:50:00																			X					
ZZZZZZ	1	19:53:00																								
ZZZZZZ	1	19:56:00																								
ZZZZZZ	1	19:58:00																								
ZZZZZZ	1	20:01:00																								
ZZZZZZ	1	20:04:00																								
ZZZZZZ	1	20:06:00																								
ZZZZZZ	5	20:09:00																								
ZZZZZZ	1	20:12:00																								
ZZZZZZ	1	20:15:00																								

Samp No.	D/F	Run Time
CCV05	1	20:18:00
CCB05	1	20:21:00
/ZZZZZ	1	20:23:00
/ZZZZZ	1	20:27:00
/ZZZZZ	1	20:29:00
/ZZZZZ	1	20:31:00
/ZZZZZ	1	20:33:00
/ZZZZZ	5	20:35:00
/ZZZZZ	1	20:37:00
/ZZZZZ	1	20:40:00
/ZZZZZ	1	20:43:00
CCV06	1	20:46:00
CCB06	1	20:48:00
/ZZZZZ	1	20:51:00
/ZZZZZ	1	20:54:00
/ZZZZZ	1	20:56:00
/ZZZZZ	1	20:59:00
/ZZZZZ	1	21:02:00
/ZZZZZ	1	21:04:00
/ZZZZZ	1	21:06:00
/ZZZZZ	1	21:08:00
/ZZZZZ	1	21:11:00
/ZZZZZ	1	21:13:00
CCV07	1	21:16:00
CCB07	1	21:18:00
/ZZZZZ	1	21:21:00
/ZZZZZ	1	21:24:00
/ZZZZZ	1	21:25:00
/ZZZZZ	1	21:27:00
/ZZZZZ	1	21:29:00
/ZZZZZ	1	21:31:00
/ZZZZZ	1	21:33:00
/ZZZZZ	5	21:36:00
/ZZZZZ	1	21:37:00
CCV08	1	21:39:00
CCB08	1	21:41:00
/ZZZZZ	1	21:45:00
/ZZZZZ	1	21:47:00
/ZZZZZ	1	21:49:00
/ZZZZZ	1	21:51:00

**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	21:53:00																								
CCV09	1	21:55:00																			X					
CCB09	1	21:57:00																			X					
ZZZZZZ	1	22:00:00																								
ZZZZZZ	1	22:03:00																								
ZZZZZZ	1	22:04:00																								
ZZZZZZ	1	22:06:00																								
ZZZZZZ	1	22:08:00																								
ZZZZZZ	1	22:09:00																								
ZZZZZZ	5	22:10:00																								
CCV10	1	22:12:00																			X					
CCB10	1	22:14:00																			X					
ZZZZZZ	1	22:17:00																								
ZZZZZZ	1	22:20:00																								
ZZZZZZ	1	22:22:00																								
ZZZZZZ	1	22:24:00																								
ZZZZZZ	1	22:26:00																								
ZZZZZZ	1	22:28:00																								
ZZZZZZ	1	22:31:00																								
ZZZZZZ	1	22:33:00																								
CCV11	1	22:35:00																			X					
CCB11	1	22:37:00																			X					
ZZZZZZ	1	22:40:00																								
ZZZZZZ	1	22:42:00																								
ZZZZZZ	1	22:45:00																								
ZZZZZZ	1	22:47:00																								
ZZZZZZ	1	22:49:00																								
ZZZZZZ	1	22:52:00																								
ZZZZZZ	1	22:54:00																								
CCV12	1	22:56:00																			X					
CCB12	1	22:58:00																			X					
ZZZZZZ	1	23:01:00																								
ZZZZZZ	1	23:04:00																								
ZZZZZZ	1	23:05:00																								
ZZZZZZ	1	23:07:00																								
ZZZZZZ	1	23:09:00																								
ZZZZZZ	1	23:10:00																								
ZZZZZZ	5	23:12:00																								
ZZZZZZ	1	23:14:00																								
ZZZZZZ	1	23:16:00																								

**SW846**

**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
CCV17	1	00:42:00																			X					
CCB17	1	00:45:00																			X					
ZZZZZZ	1	00:48:00																								
ZZZZZZ	1	00:50:00																								
ZZZZZZ	1	00:52:00																								
ZZZZZZ	1	00:54:00																								
ZZZZZZ	1	00:56:00																								
ZZZZZZ	1	00:58:00																								
ZZZZZZ	1	01:00:00																								
ZZZZZZ	1	01:02:00																								
ZZZZZZ	1	01:04:00																								
CCV18	1	01:06:00																			X					
CCB18	1	01:09:00																			X					
ZZZZZZ	1	01:12:00																								
ZZZZZZ	1	01:14:00																								
ZZZZZZ	1	01:16:00																								
ZZZZZZ	1	01:18:00																								
ZZZZZZ	1	01:20:00																								
ZZZZZZ	1	01:22:00																								
PQL02	1	01:24:00																			X					
ZZZZZZ	1	01:27:00																								
ZZZZZZ	1	01:29:00																								
CCV19	1	01:30:00																			X					
CCB19	1	01:32:00																			X					
ZZZZZZ	1	01:35:00																								
ZZZZZZ	1	01:38:00																								
ZZZZZZ	1	01:40:00																								
ZZZZZZ	1	01:43:00																								
ZZZZZZ	1	01:45:00																								
ZZZZZZ	1	01:48:00																								
ZZZZZZ	5	01:50:00																								
CCV20	1	01:53:00																			X					
CCB20	1	01:55:00																			X					
ZZZZZZ	1	01:58:00																								
ZZZZZZ	1	02:01:00																								
ZZZZZZ	1	02:03:00																								
ZZZZZZ	1	02:05:00																								
ZZZZZZ	1	02:08:00																								
ZZZZZZ	1	02:10:00																								
ZZZZZZ	5	02:12:00																								

**Metals**  
**-14-**  
**Analysis Run Log**

Samp No.	D/F	Run Time																		
ZZZZZZ	1	02:15:00																		
ZZZZZZ	1	02:17:00																		
CCV21	1	02:19:00																X		
CCB21	1	02:21:00																X		
ZZZZZZ	1	02:24:00																		
ZZZZZZ	1	02:27:00																		
ZZZZZZ	1	02:29:00																		
ZZZZZZ	1	02:31:00																		
ZZZZZZ	1	02:33:00																		
ZZZZZZ	1	02:36:00																		
ZZZZZZ	5	02:38:00																		
ZZZZZZ	1	02:40:00																		
ZZZZZZ	1	02:43:00																		
CCV22	1	02:47:00																X		
CCB22	1	02:49:00																X		
ZZZZZZ	1	02:51:00																		
ZZZZZZ	1	02:55:00																		
ZZZZZZ	1	02:57:00																		
ZZZZZZ	1	02:59:00																		
ZZZZZZ	1	03:01:00																		
ZZZZZZ	1	03:03:00																		
ZZZZZZ	1	03:05:00																		
ZZZZZZ	5	03:07:00																		
ZZZZZZ	1	03:09:00																		
ZZZZZZ	1	03:11:00																		
CCV23	1	03:13:00																X		
CCB23	1	03:15:00																X		
CCV24	1	04:39:00																X		
CCB24	1	04:41:00																X		
248520002	10	04:59:00																X		
248520004	10	05:01:00																X		
CCV25	1	05:03:00																X		
CCB25	1	05:05:00																X		

**Metals**  
**-14-**  
**Analysis Run Log**

Contract: LANL01004

Lab Code: GEL

Inst Name: MER536

Start Date: 17-MAR-10

End Date: 17-MAR-10

Client Sdg: 10-2200

Method AV

Data File: 031710S1-4

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	12:25:00															X									
S0.2	1	12:27:00															X									
S0.5	1	12:29:00															X									
S2.0	1	12:31:00															X									
S5.0	1	12:33:00															X									
S10	1	12:35:00															X									
ICV01	1	12:37:00															X									
ICB01	1	12:39:00															X									
CRDL01	1	12:41:00															X									
CCV01	1	12:43:00															X									
CCB01	1	12:45:00															X									
ZZZZZZ	1	12:47:00																								
ZZZZZZ	1	12:49:00																								
ZZZZZZ	1	12:51:00																								
ZZZZZZ	1	12:53:00																								
ZZZZZZ	1	12:55:00																								
ZZZZZZ	5	12:57:00																								
ZZZZZZ	1	12:59:00																								
ZZZZZZ	1	13:01:00																								
ZZZZZZ	1	13:03:00																								
ZZZZZZ	1	13:05:00																								
CCV02	1	13:07:00															X									
CCB02	1	13:09:00															X									
ZZZZZZ	1	13:11:00																								
ZZZZZZ	1	13:13:00																								
ZZZZZZ	1	13:15:00																								
ZZZZZZ	5	13:17:00																								
ZZZZZZ	1	13:19:00																								
ZZZZZZ	1	13:21:00																								
ZZZZZZ	1	13:23:00																								
ZZZZZZ	1	13:25:00																								
ZZZZZZ	1	13:26:00																								
ZZZZZZ	1	13:28:00																								
CCV03	1	13:30:00															X									
CCB03	1	13:32:00															X									
ZZZZZZ	5	13:34:00																								
ZZZZZZ	1	13:36:00																								
ZZZZZZ	1	13:38:00																								
ZZZZZZ	1	13:40:00																								
CCV04	1	13:42:00															X									



[illegible]

# Standards

**METALS**  
**-10-**  
**Instrument Detection Limits**

SDG NO. 10-2200

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP/MS	<u>Analyte</u>	<u>Wavelength</u>	<u>MDL</u>	<u>RDL</u>
		<u>(nm)</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.** 10-2200

**Contract:** LANL01004

**Lab Code:** GEL

**MDL Effective Date:** 15-JUN-09

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	<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. 10-2200

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP	<u>Analyte</u>	<u>Wavelength (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: **10-2200**

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: **22-MAR-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	0.00676	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	-0.98369	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-0.06206	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
Phosphorous	214.914	-0.22134	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.22220	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
Sodium	589.592	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	-0.01674	0.00000	0.00000	0.00000	0.00000

**METALS**  
**-11-**  
**Interelement Correction Factors**

Lab Code: GELGEL Job No: **10-2200**

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: **22-MAR-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	14.9992	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	-9.49960	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	3.47778	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	-0.18390	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	-0.60088	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.04741	0.32747
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
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	10.9289
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
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	-0.07359	0.00000	0.00000
Sodium	589.592	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	5.02864	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.33675	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	1.18768	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	-4.30004	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.03286	0.12442	0.79397

**METALS**  
**-11-**  
**Interelement Correction Factors**

Lab Code: GELGEL Job No: **10-2200**

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: **22-MAR-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Lead	Magnesium	Manganese	Molybdenum	Phosphorous
Aluminum	396.153	0.00000	0.00000	0.00000	46.4438	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	-14.0269	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	-2.84596	0.00000
Barium	233.527	0.00000	0.00000	0.00000	-0.32136	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	0.01216	0.24903	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	-0.02702	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	-2.77286	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	-24.4630	0.00000
Manganese	257.61	0.00000	0.03966	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	-0.01826	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	10.3832	0.00000
Potassium	766.49	0.00000	0.07568	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	13.3443	0.00000
Silver	328.068	0.00000	0.00000	0.28019	-0.03095	0.00000
Sodium	589.592	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	-8.43314	0.00000
Thallium	190.801	0.00000	0.00000	-2.58065	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.08144	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	-6.48399	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	-10.3466	0.00000
Zinc	213.857	0.00000	0.00000	0.06887	-0.04597	0.00000



**METALS**  
**-11-**  
**Interelement Correction Factors**

Lab Code: GEL

GEL Job No: 10-2200

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: 22-MAR-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Potassium	Selenium	Silicon	Silver	Sodium
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
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
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.16274
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
Sodium	589.592	0.88937	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**  
**-11-**  
**Interelement Correction Factors**

Lab Code: GEL

GEL Job No: 10-2200

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: 22-MAR-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Strontium	Sulfur	Thallium	Tin	Titanium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	-1.82716	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
Lead	220.353	0.00000	0.00000	0.00000	0.00000	-1.32991
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
Phosphorous	214.914	0.00000	0.00000	0.00000	-8.61809	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
Silicon	251.611	0.00000	0.00000	0.00000	6.59640	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	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	-10.0432
Tin	189.927	0.00000	0.00000	0.00000	0.00000	-3.37234
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	0.92753
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	-0.56798

**METALS**  
**-11-**  
**Interelement Correction Factors**

Lab Code: GELGEL Job No: **10-2200**

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: **22-MAR-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Uranium	Vanadium	Zinc
Aluminum	396.153	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	-1.62578	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000
Barium	233.527	0.00000	-0.63442	0.00000
Beryllium	313.107	-0.30229	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000
Chromium	267.716	0.78601	-0.47146	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000
Copper	324.752	-0.82619	0.00000	0.00000
Lead	220.353	0.74521	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	-0.33953	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000
Selenium	196.026	-0.96499	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000
Silver	328.068	-1.22996	-11.9401	0.00000
Sodium	589.592	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	-7.37871	0.00000
Tin	189.927	0.00000	0.00000	0.00000
Titanium	334.94	0.40930	0.00000	0.00000
Uranium	409.014	0.00000	-57.5852	0.00000
Vanadium	292.402	-0.67226	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000

**METALS**  
**-12-**  
**Linear Ranges**

SDG NO. 10-2200

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS5

<u>Analvte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
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
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

METALS  
-12-  
Linear Ranges

SDG NO. 10-2200

Contract: LANL01004

Lab Code: GEL

Instrument ID OPTIMA4

<u>Analyte</u>	<u>Integration Time (sec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Uranium	20	15000	ug/L	01-FEB-10
Vanadium	20	10000	ug/L	01-FEB-10
Zinc	20	15000	ug/L	01-FEB-10
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

# Raw Data

=====  
Analysis Begun

Start Time: 3/30/2010 15:06:00

Plasma On Time: 3/29/2010 18:07:58

Logged In Analyst: optima4

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C0022701Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\033010.sif

Batch ID:

Results Data Set: 033010B

Results Library: C:\pe\optima4\Results\Results.mdb

=====  
Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 3/30/2010 15:06:02

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc RADIAL	146497.9	146497.9	99.1	%	15:06:32
1	Al 396.153Radial†	-101.0	-101.9	[0.00]	µg/L	15:06:52
1	Ca 317.933Radial†	670.1	676.2	[0.00]	µg/L	15:06:52
1	Fe 238.204 Radial†	133.7	134.9	[0.00]	µg/L	15:06:52
1	K 766.490 Radial†	1222.4	1233.5	[0.00]	µg/L	15:06:32
1	Mg 279.077 IEC†	174.9	176.5	[0.00]	µg/L	15:06:52
1	Na 589.592 Radial†	1269.7	1281.2	[0.00]	µg/L	15:06:32
1	Sr 421.552†	-245.3	-247.6	[0.00]	µg/L	15:06:32
1	Sc 361.383	1750148.6	1750148.6	99.719	%	15:07:54
1	Y 371.029	1060907.2	1060907.2	99.705	%	15:07:54
1	Ag 328.068†	3317.5	3326.9	[0.00]	µg/L	15:07:56
1	As 188.979†	-16.5	-16.5	[0.00]	µg/L	15:08:16
1	B 249.677†	3233.9	3243.0	[0.00]	µg/L	15:08:16
1	Ba 233.527†	-160.6	-161.1	[0.00]	µg/L	15:08:16
1	Be 313.107†	-773.6	-775.8	[0.00]	µg/L	15:07:56
1	Cd 226.502†	-119.9	-120.3	[0.00]	µg/L	15:08:16
1	Co 228.616†	-167.4	-167.9	[0.00]	µg/L	15:08:16
1	Cr 267.716†	181.0	181.5	[0.00]	µg/L	15:08:16
1	Cu 324.752†	2790.1	2798.0	[0.00]	µg/L	15:07:56
1	Mn 257.610†	176.6	177.1	[0.00]	µg/L	15:08:16
1	Mo 202.031†	-36.7	-36.8	[0.00]	µg/L	15:08:16
1	Ni 231.604†	-71.2	-71.4	[0.00]	µg/L	15:08:16
1	P 214.914†	0.0	0.0	[0.00]	µg/L	15:08:16
1	Pb 220.353†	115.5	115.9	[0.00]	µg/L	15:08:16
1	S 181.975 Axial†	85.9	86.1	[0.00]	µg/L	15:08:16
1	Sb 206.836†	81.3	81.5	[0.00]	µg/L	15:08:16
1	Se 196.026†	3.3	3.3	[0.00]	µg/L	15:08:16
1	SiO2†	1748.5	1753.4	[0.00]	µg/L	15:08:16
1	Si 251.611†	853.8	856.2	[0.00]	µg/L	15:07:56
1	Sn 189.927†	-7.6	-7.7	[0.00]	µg/L	15:08:16
1	Ti 334.940†	867.0	869.5	[0.00]	µg/L	15:07:56
1	Tl 190.801†	-111.8	-112.1	[0.00]	µg/L	15:08:16
1	U 409.014†	-248.2	-248.9	[0.00]	µg/L	15:07:56
1	V 292.402†	416.2	417.4	[0.00]	µg/L	15:07:56
1	Zn 213.857†	524.3	525.8	[0.00]	µg/L	15:08:16
2	Sc RADIAL	147907.3	147907.3	100	%	15:06:55
2	Al 396.153Radial†	-34.8	-34.7	[0.00]	µg/L	15:07:15
2	Ca 317.933Radial†	694.0	693.6	[0.00]	µg/L	15:07:15
2	Fe 238.204 Radial†	148.0	147.9	[0.00]	µg/L	15:07:15
2	K 766.490 Radial†	1396.5	1395.7	[0.00]	µg/L	15:06:55
2	Mg 279.077 IEC†	152.8	152.7	[0.00]	µg/L	15:07:15
2	Na 589.592 Radial†	1149.0	1148.4	[0.00]	µg/L	15:06:55
2	Sr 421.552†	-193.4	-193.3	[0.00]	µg/L	15:06:55
2	Sc 361.383	1758204.8	1758204.8	100.18	%	15:08:19
2	Y 371.029	1066082.1	1066082.1	100.19	%	15:08:19
2	Ag 328.068†	3417.1	3411.0	[0.00]	µg/L	15:08:21
2	As 188.979†	-15.0	-15.0	[0.00]	µg/L	15:08:41

2	B 249.677†	3227.6	3221.9	[0.00]	µg/L	15:08:41
2	Ba 233.527†	-147.6	-147.4	[0.00]	µg/L	15:08:41
2	Be 313.107†	-698.8	-697.5	[0.00]	µg/L	15:08:21
2	Cd 226.502†	-114.7	-114.5	[0.00]	µg/L	15:08:41
2	Co 228.616†	-169.7	-169.4	[0.00]	µg/L	15:08:41
2	Cr 267.716†	163.9	163.6	[0.00]	µg/L	15:08:41
2	Cu 324.752†	2765.8	2760.9	[0.00]	µg/L	15:08:21
2	Mn 257.610†	183.5	183.2	[0.00]	µg/L	15:08:41
2	Mo 202.031†	-33.7	-33.6	[0.00]	µg/L	15:08:41
2	Ni 231.604†	-86.0	-85.8	[0.00]	µg/L	15:08:41
2	P 214.914†	8.3	8.3	[0.00]	µg/L	15:08:41
2	Pb 220.353†	81.9	81.8	[0.00]	µg/L	15:08:41
2	S 181.975 Axial†	81.0	80.8	[0.00]	µg/L	15:08:41
2	Sb 206.836†	78.6	78.4	[0.00]	µg/L	15:08:41
2	Se 196.026†	28.8	28.8	[0.00]	µg/L	15:08:41
2	SiO2†	1754.9	1751.8	[0.00]	µg/L	15:08:41
2	Si 251.611†	1018.7	1016.9	[0.00]	µg/L	15:08:21
2	Sn 189.927†	0.3	0.3	[0.00]	µg/L	15:08:41
2	Ti 334.940†	994.7	992.9	[0.00]	µg/L	15:08:21
2	Tl 190.801†	-109.6	-109.4	[0.00]	µg/L	15:08:41
2	U 409.014†	-263.3	-262.8	[0.00]	µg/L	15:08:21
2	V 292.402†	284.4	283.9	[0.00]	µg/L	15:08:21
2	Zn 213.857†	528.6	527.6	[0.00]	µg/L	15:08:41
3	Sc RADIAL	149084.2	149084.2	101	%	15:07:17
3	Al 396.153Radial†	-52.4	-52.0	[0.00]	µg/L	15:07:37
3	Ca 317.933Radial†	730.3	724.2	[0.00]	µg/L	15:07:37
3	Fe 238.204 Radial†	140.4	139.2	[0.00]	µg/L	15:07:37
3	K 766.490 Radial†	1320.3	1309.2	[0.00]	µg/L	15:07:17
3	Mg 279.077 IEC†	178.6	177.1	[0.00]	µg/L	15:07:37
3	Na 589.592 Radial†	1200.4	1190.3	[0.00]	µg/L	15:07:17
3	Sr 421.552†	-226.0	-224.1	[0.00]	µg/L	15:07:17
3	Sc 361.383	1756878.6	1756878.6	100.10	%	15:08:43
3	Y 371.029	1065144.1	1065144.1	100.10	%	15:08:43
3	Ag 328.068†	3607.1	3603.4	[0.00]	µg/L	15:08:45
3	As 188.979†	-21.6	-21.6	[0.00]	µg/L	15:09:05
3	B 249.677†	3229.5	3226.2	[0.00]	µg/L	15:09:05
3	Ba 233.527†	-178.2	-178.0	[0.00]	µg/L	15:09:05
3	Be 313.107†	-884.3	-883.4	[0.00]	µg/L	15:08:45
3	Cd 226.502†	-95.4	-95.3	[0.00]	µg/L	15:09:05
3	Co 228.616†	-180.2	-180.0	[0.00]	µg/L	15:09:05
3	Cr 267.716†	190.8	190.6	[0.00]	µg/L	15:09:05
3	Cu 324.752†	2810.8	2808.0	[0.00]	µg/L	15:08:45
3	Mn 257.610†	166.6	166.4	[0.00]	µg/L	15:09:05
3	Mo 202.031†	-33.9	-33.9	[0.00]	µg/L	15:09:05
3	Ni 231.604†	-76.5	-76.4	[0.00]	µg/L	15:09:05
3	P 214.914†	6.7	6.7	[0.00]	µg/L	15:09:05
3	Pb 220.353†	93.4	93.3	[0.00]	µg/L	15:09:05
3	S 181.975 Axial†	96.2	96.1	[0.00]	µg/L	15:09:05
3	Sb 206.836†	74.4	74.3	[0.00]	µg/L	15:09:05
3	Se 196.026†	8.6	8.6	[0.00]	µg/L	15:09:05
3	SiO2†	1756.0	1754.2	[0.00]	µg/L	15:09:05
3	Si 251.611†	973.9	972.9	[0.00]	µg/L	15:08:45
3	Sn 189.927†	-0.2	-0.2	[0.00]	µg/L	15:09:05
3	Ti 334.940†	795.2	794.4	[0.00]	µg/L	15:08:45
3	Tl 190.801†	-129.9	-129.8	[0.00]	µg/L	15:09:05
3	U 409.014†	-340.0	-339.6	[0.00]	µg/L	15:08:45
3	V 292.402†	228.5	228.3	[0.00]	µg/L	15:08:45
3	Zn 213.857†	520.8	520.3	[0.00]	µg/L	15:09:05

## Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
Sc 361.383	1755077.4	4319.59	0.25%	100.00	%
Sc RADIAL	147829.8	1294.89	0.88%	100	%
Y 371.029	1064044.5	2757.13	0.26%	100.00	%
Ag 328.068†	3447.1	141.77	4.11%	[0.00]	µg/L
Al 396.153Radial†	-62.9	34.89	55.49%	[0.00]	µg/L
As 188.979†	-17.7	3.44	19.45%	[0.00]	µg/L
B 249.677†	3230.3	11.14	0.34%	[0.00]	µg/L
Ba 233.527†	-162.2	15.33	9.46%	[0.00]	µg/L



Be 313.107†	-785.6	93.33	11.88%	[0.00]	µg/L
Ca 317.933 Radial†	698.0	24.30	3.48%	[0.00]	µg/L
Cd 226.502†	-110.0	13.07	11.88%	[0.00]	µg/L
Co 228.616†	-172.4	6.63	3.84%	[0.00]	µg/L
Cr 267.716†	178.6	13.74	7.69%	[0.00]	µg/L
Cu 324.752†	2788.9	24.81	0.89%	[0.00]	µg/L
Fe 238.204 Radial†	140.7	6.62	4.70%	[0.00]	µg/L
K 766.490 Radial†	1312.8	81.17	6.18%	[0.00]	µg/L
Mg 279.077 IEC†	168.8	13.89	8.23%	[0.00]	µg/L
Mn 257.610†	175.6	8.49	4.84%	[0.00]	µg/L
Mo 202.031†	-34.8	1.78	5.12%	[0.00]	µg/L
Na 589.592 Radial†	1206.6	67.93	5.63%	[0.00]	µg/L
Ni 231.604†	-77.9	7.31	9.39%	[0.00]	µg/L
P 214.914†	5.0	4.37	87.51%	[0.00]	µg/L
Pb 220.353†	97.0	17.35	17.90%	[0.00]	µg/L
S 181.975 Axial†	87.7	7.77	8.86%	[0.00]	µg/L
Sb 206.836†	78.1	3.61	4.63%	[0.00]	µg/L
Se 196.026†	13.6	13.43	99.02%	[0.00]	µg/L
SiO2†	1753.1	1.20	0.07%	[0.00]	µg/L
Si 251.611†	948.7	83.02	8.75%	[0.00]	µg/L
Sn 189.927†	-2.5	4.43	174.28%	[0.00]	µg/L
Sr 421.552†	-221.7	27.19	12.27%	[0.00]	µg/L
Ti 334.940†	885.6	100.24	11.32%	[0.00]	µg/L
Tl 190.801†	-117.1	11.10	9.48%	[0.00]	µg/L
U 409.014†	-283.8	48.88	17.23%	[0.00]	µg/L
V 292.402†	309.8	97.21	31.37%	[0.00]	µg/L
Zn 213.857†	524.6	3.82	0.73%	[0.00]	µg/L

Sequence No.: 2

Sample ID: S0.1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 3/30/2010 15:09:13

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc RADIAL	151106.4	151106.4	102 %	15:09:44
1	K 766.490 Radial†	3818.5	2422.9	[1000] µg/L	15:09:44
1	Sr 421.552†	45253.2	44493.6	[100] µg/L	15:09:44
1	Sc 361.383	1738037.7	1738037.7	99.029 %	15:09:52
1	Y 371.029	1049397.7	1049397.7	98.623 %	15:09:52
1	Ag 328.068†	28574.4	25407.5	[100] µg/L	15:09:54
1	As 188.979†	268.3	288.6	[100] µg/L	15:10:14
1	B 249.677†	9207.2	6067.1	[100] µg/L	15:09:54
1	Ba 233.527†	22852.5	23238.7	[100] µg/L	15:09:54
1	Be 313.107†	323892.5	327853.5	[100] µg/L	15:09:52
1	Cd 226.502†	14574.7	14827.6	[100] µg/L	15:09:54
1	Co 228.616†	7300.6	7544.6	[100] µg/L	15:10:14
1	Cr 267.716†	11891.0	11829.0	[100] µg/L	15:09:54
1	Cu 324.752†	26223.3	23691.5	[100] µg/L	15:09:54
1	Mn 257.610†	76566.4	77141.5	[100] µg/L	15:09:54
1	Mo 202.031†	3085.6	3150.6	[100] µg/L	15:10:14
1	Ni 231.604†	8046.1	8202.9	[100] µg/L	15:09:54
1	P 214.914†	2079.3	2094.7	[500] µg/L	15:10:14
1	Pb 220.353†	1741.7	1661.8	[100] µg/L	15:10:14
1	S 181.975 Axial†	326.5	242.0	[200] µg/L	15:10:14
1	Sb 206.836†	832.0	762.0	[100] µg/L	15:10:14
1	Se 196.026†	250.1	238.9	[100] µg/L	15:10:14
1	SiO2†	11525.9	9885.8	[1069.5] µg/L	15:09:54
1	Si 251.611†	31162.9	30519.8	[500] µg/L	15:09:54
1	Sn 189.927†	1432.7	1449.3	[100] µg/L	15:10:14
1	Ti 334.940†	99104.5	99190.5	[100] µg/L	15:09:54
1	Tl 190.801†	632.9	756.2	[100] µg/L	15:10:14
1	U 409.014†	1279.0	1575.3	[100] µg/L	15:09:54
1	V 292.402†	18747.4	18621.3	[100] µg/L	15:09:54
1	Zn 213.857†	16580.0	16218.0	[100] µg/L	15:09:54
2	Sc RADIAL	151100.7	151100.7	102 %	15:09:46
2	K 766.490 Radial†	3799.4	2404.3	[1000] µg/L	15:09:46
2	Sr 421.552†	45444.4	44682.4	[100] µg/L	15:09:46
2	Sc 361.383	1757465.9	1757465.9	100.14 %	15:10:16
2	Y 371.029	1061598.8	1061598.8	99.770 %	15:10:16
2	Ag 328.068†	28565.6	25079.7	[100] µg/L	15:10:18
2	As 188.979†	278.0	295.3	[100] µg/L	15:10:38
2	B 249.677†	9241.9	5999.0	[100] µg/L	15:10:18
2	Ba 233.527†	23009.2	23140.1	[100] µg/L	15:10:18
2	Be 313.107†	327346.9	327687.6	[100] µg/L	15:10:16
2	Cd 226.502†	14590.2	14680.4	[100] µg/L	15:10:18
2	Co 228.616†	7268.8	7431.4	[100] µg/L	15:10:38
2	Cr 267.716†	12079.9	11884.9	[100] µg/L	15:10:18
2	Cu 324.752†	26500.5	23675.6	[100] µg/L	15:10:18
2	Mn 257.610†	77037.2	76756.9	[100] µg/L	15:10:18
2	Mo 202.031†	3083.7	3114.3	[100] µg/L	15:10:38
2	Ni 231.604†	8112.2	8179.1	[100] µg/L	15:10:18
2	P 214.914†	2063.1	2055.3	[500] µg/L	15:10:38
2	Pb 220.353†	1736.3	1637.0	[100] µg/L	15:10:38
2	S 181.975 Axial†	322.2	234.0	[200] µg/L	15:10:38
2	Sb 206.836†	843.3	764.1	[100] µg/L	15:10:38
2	Se 196.026†	260.0	246.1	[100] µg/L	15:10:38
2	SiO2†	11608.3	9839.4	[1069.5] µg/L	15:10:18
2	Si 251.611†	31441.9	30450.5	[500] µg/L	15:10:18
2	Sn 189.927†	1435.4	1436.0	[100] µg/L	15:10:38
2	Ti 334.940†	99940.5	98919.1	[100] µg/L	15:10:18
2	Tl 190.801†	638.1	754.3	[100] µg/L	15:10:38
2	U 409.014†	1394.8	1676.7	[100] µg/L	15:10:18
2	V 292.402†	18757.2	18421.9	[100] µg/L	15:10:18

2	Zn 213.857†	16630.2	16083.1	[100] µg/L	15:10:18
3	Sc RADIAL	150595.1	150595.1	102 %	15:09:48
3	K 766.490 Radial†	3957.0	2571.5	[1000] µg/L	15:09:48
3	Sr 421.552†	45519.0	44904.8	[100] µg/L	15:09:48
3	Sc 361.383	1739244.5	1739244.5	99.098 %	15:10:40
3	Y 371.029	1050569.8	1050569.8	98.734 %	15:10:40
3	Ag 328.068†	28423.4	25235.1	[100] µg/L	15:10:42
3	As 188.979†	270.5	290.7	[100] µg/L	15:11:02
3	B 249.677†	9031.4	5883.3	[100] µg/L	15:10:42
3	Ba 233.527†	22814.2	23184.1	[100] µg/L	15:10:42
3	Be 313.107†	324651.0	328391.9	[100] µg/L	15:10:40
3	Cd 226.502†	14381.3	14622.3	[100] µg/L	15:10:42
3	Co 228.616†	7305.3	7544.2	[100] µg/L	15:11:02
3	Cr 267.716†	11842.0	11771.3	[100] µg/L	15:10:42
3	Cu 324.752†	26162.4	23611.6	[100] µg/L	15:10:42
3	Mn 257.610†	76240.8	76759.2	[100] µg/L	15:10:42
3	Mo 202.031†	3086.5	3149.4	[100] µg/L	15:11:02
3	Ni 231.604†	7930.5	8080.6	[100] µg/L	15:10:42
3	P 214.914†	2052.5	2066.2	[500] µg/L	15:11:02
3	Pb 220.353†	1737.1	1655.9	[100] µg/L	15:11:02
3	S 181.975 Axial†	322.8	238.0	[200] µg/L	15:11:02
3	Sb 206.836†	838.9	768.4	[100] µg/L	15:11:02
3	Se 196.026†	267.2	256.1	[100] µg/L	15:11:02
3	SiO2†	11482.8	9834.2	[1069.5] µg/L	15:10:42
3	Si 251.611†	31025.8	30359.6	[500] µg/L	15:10:42
3	Sn 189.927†	1439.4	1455.1	[100] µg/L	15:11:02
3	Ti 334.940†	98234.7	98243.4	[100] µg/L	15:10:42
3	Tl 190.801†	640.7	763.7	[100] µg/L	15:11:02
3	U 409.014†	1354.3	1650.4	[100] µg/L	15:10:42
3	V 292.402†	18608.8	18468.4	[100] µg/L	15:10:42
3	Zn 213.857†	16438.9	16064.0	[100] µg/L	15:10:42

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Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sc 361.383	1744916.0	10885.22	0.62%	99.421 %	
Sc RADIAL	150934.1	293.54	0.19%	102 %	
Y 371.029	1053855.4	6731.54	0.64%	99.042 %	
Ag 328.068†	25240.8	163.97	0.65%	[100] µg/L	
As 188.979†	291.5	3.43	1.18%	[100] µg/L	
B 249.677†	5983.1	92.92	1.55%	[100] µg/L	
Ba 233.527†	23187.6	49.38	0.21%	[100] µg/L	
Be 313.107†	327977.7	368.24	0.11%	[100] µg/L	
Cd 226.502†	14710.1	105.82	0.72%	[100] µg/L	
Co 228.616†	7506.8	65.26	0.87%	[100] µg/L	
Cr 267.716†	11828.4	56.81	0.48%	[100] µg/L	
Cu 324.752†	23659.5	42.28	0.18%	[100] µg/L	
K 766.490 Radial†	2466.2	91.66	3.72%	[1000] µg/L	
Mn 257.610†	76885.9	221.36	0.29%	[100] µg/L	
Mo 202.031†	3138.1	20.62	0.66%	[100] µg/L	
Ni 231.604†	8154.2	64.85	0.80%	[100] µg/L	
P 214.914†	2072.0	20.35	0.98%	[500] µg/L	
Pb 220.353†	1651.6	12.97	0.79%	[100] µg/L	
S 181.975 Axial†	238.0	4.01	1.69%	[200] µg/L	
Sb 206.836†	764.9	3.26	0.43%	[100] µg/L	
Se 196.026†	247.0	8.60	3.48%	[100] µg/L	
SiO2†	9853.1	28.41	0.29%	[1069.5] µg/L	
Si 251.611†	30443.3	80.34	0.26%	[500] µg/L	
Sn 189.927†	1446.8	9.79	0.68%	[100] µg/L	
Sr 421.552†	44693.6	205.85	0.46%	[100] µg/L	
Ti 334.940†	98784.3	487.73	0.49%	[100] µg/L	
Tl 190.801†	758.0	4.95	0.65%	[100] µg/L	
U 409.014†	1634.1	52.62	3.22%	[100] µg/L	
V 292.402†	18503.9	104.35	0.56%	[100] µg/L	
Zn 213.857†	16121.7	83.92	0.52%	[100] µg/L	

Sequence No.: 3

Sample ID: S0.5

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 3/30/2010 15:11:10

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Analysis Time
1	Sc RADIAL	153789.5	153789.5	104 %	15:11:41
1	Al 396.153Radial†	24481.1	23595.3	[5000] µg/L	15:11:41
1	Ca 317.933Radial†	85129.1	81132.2	[5000] µg/L	15:11:41
1	K 766.490 Radial†	13676.3	11833.5	[5000] µg/L	15:11:41
1	Mg 279.077 IEC†	12814.2	12148.8	[5000] µg/L	15:11:41
1	Sr 421.552†	211787.7	203802.1	[500] µg/L	15:11:39
1	Sc 361.383	1735951.4	1735951.4	98.910 %	15:11:54
1	Y 371.029	1040161.6	1040161.6	97.755 %	15:11:54
1	Ag 328.068†	126606.2	124554.0	[500] µg/L	15:11:54
1	As 188.979†	1397.2	1430.3	[500] µg/L	15:12:14
1	B 249.677†	33216.3	30351.9	[500] µg/L	15:11:54
1	Ba 233.527†	113577.9	114991.4	[500] µg/L	15:11:54
1	Be 313.107†	1647596.1	1666534.1	[500] µg/L	15:11:54
1	Cd 226.502†	72100.2	73004.6	[500] µg/L	15:11:54
1	Co 228.616†	36584.4	37159.9	[500] µg/L	15:11:54
1	Cr 267.716†	58901.1	59371.5	[500] µg/L	15:11:54
1	Cu 324.752†	119610.4	118139.2	[500] µg/L	15:11:54
1	Mn 257.610†	371672.1	375591.5	[500] µg/L	15:11:54
1	Mo 202.031†	15467.6	15672.8	[500] µg/L	15:12:14
1	Ni 231.604†	39521.0	40034.3	[500] µg/L	15:11:54
1	P 214.914†	10340.4	10449.3	[2500] µg/L	15:12:14
1	Pb 220.353†	8226.2	8219.8	[500] µg/L	15:12:14
1	S 181.975 Axial†	1292.3	1218.9	[1000] µg/L	15:12:14
1	Sb 206.836†	3846.6	3810.9	[500] µg/L	15:12:14
1	Se 196.026†	1241.8	1241.9	[500] µg/L	15:12:14
1	SiO2†	50998.0	49806.7	[5347.5] µg/L	15:11:54
1	Si 251.611†	153709.5	154454.4	[2500] µg/L	15:11:54
1	Sn 189.927†	7149.3	7230.6	[500] µg/L	15:12:14
1	Ti 334.940†	494470.5	499032.8	[500] µg/L	15:11:54
1	Tl 190.801†	3575.0	3731.4	[500] µg/L	15:12:14
1	U 409.014†	7148.3	7510.8	[500] µg/L	15:11:54
1	V 292.402†	92825.6	93538.5	[500] µg/L	15:11:54
1	Zn 213.857†	80524.0	80886.6	[500] µg/L	15:11:54
2	Sc RADIAL	152865.2	152865.2	103 %	15:11:45
2	Al 396.153Radial†	24989.3	24229.1	[5000] µg/L	15:11:45
2	Ca 317.933Radial†	86974.4	83411.5	[5000] µg/L	15:11:45
2	K 766.490 Radial†	13984.7	12211.3	[5000] µg/L	15:11:45
2	Mg 279.077 IEC†	12966.9	12370.9	[5000] µg/L	15:11:45
2	Sr 421.552†	222524.3	215416.0	[500] µg/L	15:11:43
2	Sc 361.383	1734190.5	1734190.5	98.810 %	15:12:17
2	Y 371.029	1038691.4	1038691.4	97.617 %	15:12:17
2	Ag 328.068†	126509.4	124586.0	[500] µg/L	15:12:17
2	As 188.979†	1391.7	1426.2	[500] µg/L	15:12:37
2	B 249.677†	33048.7	30216.4	[500] µg/L	15:12:17
2	Ba 233.527†	113148.6	114673.5	[500] µg/L	15:12:17
2	Be 313.107†	1642503.0	1663071.1	[500] µg/L	15:12:17
2	Cd 226.502†	71973.8	72950.7	[500] µg/L	15:12:17
2	Co 228.616†	36618.8	37232.2	[500] µg/L	15:12:17
2	Cr 267.716†	58524.7	59051.0	[500] µg/L	15:12:17
2	Cu 324.752†	119301.7	117949.6	[500] µg/L	15:12:17
2	Mn 257.610†	370432.5	374718.5	[500] µg/L	15:12:17
2	Mo 202.031†	15519.2	15740.9	[500] µg/L	15:12:37
2	Ni 231.604†	39230.4	39780.8	[500] µg/L	15:12:17
2	P 214.914†	10372.7	10492.7	[2500] µg/L	15:12:37
2	Pb 220.353†	8220.3	8222.3	[500] µg/L	15:12:37
2	S 181.975 Axial†	1292.2	1220.1	[1000] µg/L	15:12:37
2	Sb 206.836†	3819.7	3787.6	[500] µg/L	15:12:37
2	Se 196.026†	1255.4	1257.0	[500] µg/L	15:12:37
2	SiO2†	51109.7	49972.2	[5347.5] µg/L	15:12:17

2	Si 251.611†	153212.5	154109.2	[2500]	µg/L	15:12:17
2	Sn 189.927†	7129.5	7217.9	[500]	µg/L	15:12:37
2	Ti 334.940†	493094.1	498147.4	[500]	µg/L	15:12:17
2	Tl 190.801†	3556.4	3716.3	[500]	µg/L	15:12:37
2	U 409.014†	6944.1	7311.5	[500]	µg/L	15:12:17
2	V 292.402†	92554.7	93359.6	[500]	µg/L	15:12:17
2	Zn 213.857†	80255.8	80697.8	[500]	µg/L	15:12:17
3	Sc RADIAL	149863.4	149863.4	101	%	15:11:49
3	Al 396.153Radial†	24669.1	24397.3	[5000]	µg/L	15:11:49
3	Ca 317.933Radial†	85030.9	83179.1	[5000]	µg/L	15:11:49
3	K 766.490 Radial†	13600.3	12103.0	[5000]	µg/L	15:11:49
3	Mg 279.077 IEC†	12711.9	12370.7	[5000]	µg/L	15:11:49
3	Sr 421.552†	221546.3	218761.8	[500]	µg/L	15:11:47
3	Sc 361.383	1723472.7	1723472.7	98.199	%	15:12:40
3	Y 371.029	1032864.9	1032864.9	97.070	%	15:12:40
3	Ag 328.068†	125972.8	124835.8	[500]	µg/L	15:12:40
3	As 188.979†	1399.9	1443.2	[500]	µg/L	15:13:00
3	B 249.677†	33059.7	30435.6	[500]	µg/L	15:12:40
3	Ba 233.527†	112125.9	114344.2	[500]	µg/L	15:12:40
3	Be 313.107†	1630400.6	1661084.1	[500]	µg/L	15:12:40
3	Cd 226.502†	71306.5	72724.1	[500]	µg/L	15:12:40
3	Co 228.616†	36272.9	37110.5	[500]	µg/L	15:12:40
3	Cr 267.716†	58285.2	59175.5	[500]	µg/L	15:12:40
3	Cu 324.752†	118561.9	117947.1	[500]	µg/L	15:12:40
3	Mn 257.610†	367562.2	374126.9	[500]	µg/L	15:12:40
3	Mo 202.031†	15553.6	15873.5	[500]	µg/L	15:13:00
3	Ni 231.604†	38922.1	39713.7	[500]	µg/L	15:12:40
3	P 214.914†	10377.3	10562.6	[2500]	µg/L	15:13:00
3	Pb 220.353†	8241.3	8295.5	[500]	µg/L	15:13:00
3	S 181.975 Axial†	1295.0	1231.1	[1000]	µg/L	15:13:00
3	Sb 206.836†	3839.0	3831.3	[500]	µg/L	15:13:00
3	Se 196.026†	1246.3	1255.5	[500]	µg/L	15:13:00
3	SiO2†	50697.4	49873.9	[5347.5]	µg/L	15:12:40
3	Si 251.611†	152190.0	154032.2	[2500]	µg/L	15:12:40
3	Sn 189.927†	7135.8	7269.2	[500]	µg/L	15:13:00
3	Ti 334.940†	489890.4	497988.3	[500]	µg/L	15:12:40
3	Tl 190.801†	3591.9	3774.8	[500]	µg/L	15:13:00
3	U 409.014†	7340.9	7759.3	[500]	µg/L	15:12:40
3	V 292.402†	91865.1	93239.8	[500]	µg/L	15:12:40
3	Zn 213.857†	79572.2	80506.8	[500]	µg/L	15:12:40

## Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1731204.9	6753.87	0.39%	98.640	%
Sc RADIAL	152172.7	2052.66	1.35%	103	%
Y 371.029	1037239.3	3858.99	0.37%	97.481	%
Ag 328.068†	124658.6	154.27	0.12%	[500]	µg/L
Al 396.153Radial†	24073.9	422.90	1.76%	[5000]	µg/L
As 188.979†	1433.2	8.90	0.62%	[500]	µg/L
B 249.677†	30334.6	110.59	0.36%	[500]	µg/L
Ba 233.527†	114669.7	323.62	0.28%	[500]	µg/L
Be 313.107†	1663563.1	2758.14	0.17%	[500]	µg/L
Ca 317.933Radial†	82574.3	1254.28	1.52%	[5000]	µg/L
Cd 226.502†	72893.1	148.83	0.20%	[500]	µg/L
Co 228.616†	37167.5	61.23	0.16%	[500]	µg/L
Cr 267.716†	59199.3	161.54	0.27%	[500]	µg/L
Cu 324.752†	118012.0	110.23	0.09%	[500]	µg/L
K 766.490 Radial†	12049.3	194.52	1.61%	[5000]	µg/L
Mg 279.077 IEC†	12296.8	128.17	1.04%	[5000]	µg/L
Mn 257.610†	374812.3	736.78	0.20%	[500]	µg/L
Mo 202.031†	15762.4	102.07	0.65%	[500]	µg/L
Ni 231.604†	39842.9	169.11	0.42%	[500]	µg/L
P 214.914†	10501.5	57.19	0.54%	[2500]	µg/L
Pb 220.353†	8245.9	42.98	0.52%	[500]	µg/L
S 181.975 Axial†	1223.3	6.71	0.55%	[1000]	µg/L
Sb 206.836†	3809.9	21.86	0.57%	[500]	µg/L
Se 196.026†	1251.5	8.34	0.67%	[500]	µg/L
SiO2†	49884.3	83.19	0.17%	[5347.5]	µg/L
Si 251.611†	154198.6	224.84	0.15%	[2500]	µg/L

Sn 189.927†	7239.2	26.70	0.37%	[500] µg/L
Sr 421.552†	212660.0	7851.46	3.69%	[500] µg/L
Ti 334.940†	498389.5	562.78	0.11%	[500] µg/L
Tl 190.801†	3740.9	30.37	0.81%	[500] µg/L
U 409.014†	7527.2	224.34	2.98%	[500] µg/L
V 292.402†	93379.3	150.30	0.16%	[500] µg/L
Zn 213.857†	80697.1	189.88	0.24%	[500] µg/L

Sequence No.: 4

Sample ID: SCAL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 3/30/2010 15:13:09

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	151479.9	151479.9	102 %	15:13:40
1	Al 396.153Radial†	50248.0	49100.2	[10000] µg/L	15:13:40
1	Ca 317.933Radial†	172576.6	167720.3	[10000] µg/L	15:13:40
1	Fe 238.204 Radial†	152851.3	149027.6	[10000] µg/L	15:13:40
1	K 766.490 Radial†	26338.9	24391.4	[10000] µg/L	15:13:40
1	Mg 279.077 IEC†	25844.4	25052.9	[10000] µg/L	15:13:40
1	Na 589.592 Radial†	68427.5	65572.1	[10000] µg/L	15:13:40
1	Sr 421.552†	443569.3	433102.8	[1000] µg/L	15:13:38
1	Sc 361.383	1755665.6	1755665.6	100.03 %	15:13:53
1	Y 371.029	1044873.8	1044873.8	98.198 %	15:13:53
1	Ag 328.068†	252438.6	248906.9	[1000] µg/L	15:13:55
1	As 188.979†	2841.7	2858.5	[1000] µg/L	15:14:15
1	B 249.677†	63707.1	60455.4	[1000] µg/L	15:13:55
1	Ba 233.527†	226640.1	226726.3	[1000] µg/L	15:13:55
1	Be 313.107†	3325212.5	3324883.9	[1000] µg/L	15:13:53
1	Cd 226.502†	143542.8	143604.7	[1000] µg/L	15:13:55
1	Co 228.616†	72617.2	72765.3	[1000] µg/L	15:13:55
1	Cr 267.716†	117324.3	117106.4	[1000] µg/L	15:13:55
1	Cu 324.752†	237494.2	234625.7	[1000] µg/L	15:13:55
1	Mn 257.610†	738395.3	737972.3	[1000] µg/L	15:13:55
1	Mo 202.031†	31197.3	31221.6	[1000] µg/L	15:14:15
1	Ni 231.604†	78391.2	78442.8	[1000] µg/L	15:13:55
1	P 214.914†	20837.0	20825.0	[5000] µg/L	15:14:15
1	Pb 220.353†	16272.4	16170.0	[1000] µg/L	15:14:15
1	S 181.975 Axial†	2513.2	2424.7	[2000] µg/L	15:14:15
1	Sb 206.836†	7651.2	7570.5	[1000] µg/L	15:14:15
1	Se 196.026†	2493.0	2478.6	[1000] µg/L	15:14:15
1	SiO2†	100259.4	98472.6	[10695] µg/L	15:13:55
1	Si 251.611†	305887.8	304836.7	[5000] µg/L	15:13:55
1	Sn 189.927†	14332.6	14330.3	[1000] µg/L	15:14:15
1	Ti 334.940†	997065.9	995846.2	[1000] µg/L	15:13:53
1	Tl 190.801†	7268.8	7383.5	[1000] µg/L	15:14:15
1	U 409.014†	15767.1	16045.6	[1000] µg/L	15:13:55
1	V 292.402†	186730.1	186357.7	[1000] µg/L	15:13:55
1	Zn 213.857†	159431.2	158853.3	[1000] µg/L	15:13:55
2	Sc RADIAL	151260.0	151260.0	102 %	15:13:44
2	Al 396.153Radial†	50210.8	49135.1	[10000] µg/L	15:13:44
2	Ca 317.933Radial†	171845.0	167250.0	[10000] µg/L	15:13:44
2	Fe 238.204 Radial†	152123.6	148533.1	[10000] µg/L	15:13:44
2	K 766.490 Radial†	26188.8	24282.1	[10000] µg/L	15:13:44
2	Mg 279.077 IEC†	25703.0	24951.3	[10000] µg/L	15:13:44
2	Na 589.592 Radial†	67914.1	65167.3	[10000] µg/L	15:13:44
2	Sr 421.552†	445909.8	436019.5	[1000] µg/L	15:13:42
2	Sc 361.383	1749606.7	1749606.7	99.688 %	15:14:18
2	Y 371.029	1042280.4	1042280.4	97.955 %	15:14:18
2	Ag 328.068†	254491.0	251839.7	[1000] µg/L	15:14:20
2	As 188.979†	2842.0	2868.6	[1000] µg/L	15:14:40
2	B 249.677†	64704.3	61676.3	[1000] µg/L	15:14:20
2	Ba 233.527†	228264.2	229140.1	[1000] µg/L	15:14:20
2	Be 313.107†	3335523.1	3346738.2	[1000] µg/L	15:14:18
2	Cd 226.502†	144794.1	145356.9	[1000] µg/L	15:14:20
2	Co 228.616†	73330.2	73732.0	[1000] µg/L	15:14:20
2	Cr 267.716†	118422.9	118614.6	[1000] µg/L	15:14:20
2	Cu 324.752†	239130.0	237088.8	[1000] µg/L	15:14:20
2	Mn 257.610†	744297.2	746448.9	[1000] µg/L	15:14:20
2	Mo 202.031†	31343.1	31475.9	[1000] µg/L	15:14:40
2	Ni 231.604†	78921.8	79246.4	[1000] µg/L	15:14:20
2	P 214.914†	20931.4	20991.9	[5000] µg/L	15:14:40
2	Pb 220.353†	16369.7	16323.9	[1000] µg/L	15:14:40

2	S 181.975 Axial†	2522.0	2442.1	[2000]	µg/L	15:14:40
2	Sb 206.836†	7703.7	7649.7	[1000]	µg/L	15:14:40
2	Se 196.026†	2507.4	2501.6	[1000]	µg/L	15:14:40
2	SiO2†	101466.2	100030.3	[10695]	µg/L	15:14:20
2	Si 251.611†	308702.3	308718.9	[5000]	µg/L	15:14:20
2	Sn 189.927†	14433.4	14481.1	[1000]	µg/L	15:14:40
2	Ti 334.940†	998815.3	1001052.9	[1000]	µg/L	15:14:18
2	Tl 190.801†	7296.7	7436.6	[1000]	µg/L	15:14:40
2	U 409.014†	15818.7	16151.9	[1000]	µg/L	15:14:20
2	V 292.402†	188107.1	188385.4	[1000]	µg/L	15:14:20
2	Zn 213.857†	161016.2	160995.1	[1000]	µg/L	15:14:20
3	Sc RADIAL	151014.0	151014.0	102	%	15:13:48
3	Al 396.153Radial†	50198.3	49202.7	[10000]	µg/L	15:13:48
3	Ca 317.933Radial†	171941.8	167618.5	[10000]	µg/L	15:13:48
3	Fe 238.204 Radial†	152128.1	148779.8	[10000]	µg/L	15:13:48
3	K 766.490 Radial†	26223.9	24358.2	[10000]	µg/L	15:13:48
3	Mg 279.077 IEC†	25716.3	25005.2	[10000]	µg/L	15:13:48
3	Na 589.592 Radial†	67843.5	65206.4	[10000]	µg/L	15:13:48
3	Sr 421.552†	446265.2	437077.4	[1000]	µg/L	15:13:46
3	Sc 361.383	1732533.9	1732533.9	98.716	%	15:14:42
3	Y 371.029	1032118.8	1032118.8	97.000	%	15:14:42
3	Ag 328.068†	255803.1	255684.5	[1000]	µg/L	15:14:45
3	As 188.979†	2815.4	2869.7	[1000]	µg/L	15:15:05
3	B 249.677†	64798.9	62411.8	[1000]	µg/L	15:14:45
3	Ba 233.527†	230158.6	233315.5	[1000]	µg/L	15:14:45
3	Be 313.107†	3286563.4	3330113.2	[1000]	µg/L	15:14:42
3	Cd 226.502†	145823.0	147830.4	[1000]	µg/L	15:14:45
3	Co 228.616†	73882.3	75016.1	[1000]	µg/L	15:14:45
3	Cr 267.716†	119164.2	120536.2	[1000]	µg/L	15:14:45
3	Cu 324.752†	240884.9	241230.3	[1000]	µg/L	15:14:45
3	Mn 257.610†	748765.6	758332.8	[1000]	µg/L	15:14:45
3	Mo 202.031†	31112.5	31552.1	[1000]	µg/L	15:15:05
3	Ni 231.604†	79518.6	80631.2	[1000]	µg/L	15:14:45
3	P 214.914†	20780.9	21046.3	[5000]	µg/L	15:15:05
3	Pb 220.353†	16271.0	16385.8	[1000]	µg/L	15:15:05
3	S 181.975 Axial†	2504.4	2449.3	[2000]	µg/L	15:15:05
3	Sb 206.836†	7642.3	7663.6	[1000]	µg/L	15:15:05
3	Se 196.026†	2492.7	2511.6	[1000]	µg/L	15:15:05
3	SiO2†	102016.4	101590.7	[10695]	µg/L	15:14:45
3	Si 251.611†	310581.1	313673.7	[5000]	µg/L	15:14:45
3	Sn 189.927†	14306.7	14495.4	[1000]	µg/L	15:15:05
3	Ti 334.940†	986990.6	998947.6	[1000]	µg/L	15:14:42
3	Tl 190.801†	7254.3	7465.7	[1000]	µg/L	15:15:05
3	U 409.014†	15880.8	16371.2	[1000]	µg/L	15:14:45
3	V 292.402†	189443.3	191598.5	[1000]	µg/L	15:14:45
3	Zn 213.857†	162084.4	163668.8	[1000]	µg/L	15:14:45

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Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1745935.4	11994.92	0.69%	99.479 %
Sc RADIAL	151251.3	233.07	0.15%	102 %
Y 371.029	1039757.6	6741.31	0.65%	97.717 %
Ag 328.068†	252143.7	3399.00	1.35%	[1000] µg/L
Al 396.153Radial†	49146.0	52.14	0.11%	[10000] µg/L
As 188.979†	2865.6	6.19	0.22%	[1000] µg/L
B 249.677†	61514.5	988.13	1.61%	[1000] µg/L
Ba 233.527†	229727.3	3333.66	1.45%	[1000] µg/L
Be 313.107†	3333911.8	11411.59	0.34%	[1000] µg/L
Ca 317.933Radial†	167529.6	247.39	0.15%	[10000] µg/L
Cd 226.502†	145597.3	2123.07	1.46%	[1000] µg/L
Co 228.616†	73837.8	1129.09	1.53%	[1000] µg/L
Cr 267.716†	118752.4	1719.04	1.45%	[1000] µg/L
Cu 324.752†	237648.3	3337.68	1.40%	[1000] µg/L
Fe 238.204 Radial†	148780.2	247.21	0.17%	[10000] µg/L
K 766.490 Radial†	24343.9	56.06	0.23%	[10000] µg/L
Mg 279.077 IEC†	25003.1	50.81	0.20%	[10000] µg/L
Mn 257.610†	747584.7	10227.64	1.37%	[1000] µg/L
Mo 202.031†	31416.5	173.06	0.55%	[1000] µg/L
Na 589.592 Radial†	65315.3	223.25	0.34%	[10000] µg/L



Ni 231.604†	79440.2	1106.98	1.39%	[1000]	µg/L
P 214.914†	20954.4	115.28	0.55%	[5000]	µg/L
Pb 220.353†	16293.2	111.12	0.68%	[1000]	µg/L
S 181.975 Axial†	2438.7	12.65	0.52%	[2000]	µg/L
Sb 206.836†	7628.0	50.21	0.66%	[1000]	µg/L
Se 196.026†	2497.3	16.89	0.68%	[1000]	µg/L
SiO2†	100031.2	1559.01	1.56%	[10695]	µg/L
Si 251.611†	309076.4	4429.34	1.43%	[5000]	µg/L
Sn 189.927†	14435.6	91.46	0.63%	[1000]	µg/L
Sr 421.552†	435399.9	2058.45	0.47%	[1000]	µg/L
Ti 334.940†	998615.5	2619.17	0.26%	[1000]	µg/L
Tl 190.801†	7428.6	41.70	0.56%	[1000]	µg/L
U 409.014†	16189.6	166.03	1.03%	[1000]	µg/L
V 292.402†	188780.5	2642.62	1.40%	[1000]	µg/L
Zn 213.857†	161172.4	2412.67	1.50%	[1000]	µg/L

Sequence No.: 5

Sample ID: S10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 3/30/2010 15:15:12

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Analysis Time
1	Sc RADIAL	147370.9	147370.9	99.7 %		15:15:41
1	Al 396.153Radial†	240906.1	241719.3	[50000] µg/L		15:15:41
1	Ca 317.933Radial†	827273.1	829151.6	[50000] µg/L		15:15:41
1	Fe 238.204 Radial†	295786.6	296567.1	[20000] µg/L		15:15:41
1	Mg 279.077 IEC†	121547.2	121756.9	[50000] µg/L		15:15:41
1	Na 589.592 Radial†	132367.2	131572.8	[20000] µg/L		15:15:41
1	Sc 361.383	1684238.1	1684238.1	95.964 %		15:16:04
1	Y 371.029	1003912.2	1003912.2	94.349 %		15:16:04
2	Sc RADIAL	146863.2	146863.2	99.3 %		15:15:43
2	Al 396.153Radial†	241723.2	243377.1	[50000] µg/L		15:15:43
2	Ca 317.933Radial†	829762.2	834525.6	[50000] µg/L		15:15:43
2	Fe 238.204 Radial†	296606.6	298418.2	[20000] µg/L		15:15:43
2	Mg 279.077 IEC†	121675.8	122307.8	[50000] µg/L		15:15:43
2	Na 589.592 Radial†	132905.7	132573.9	[20000] µg/L		15:15:43
2	Sc 361.383	1671225.1	1671225.1	95.222 %		15:16:06
2	Y 371.029	995871.7	995871.7	93.593 %		15:16:06
3	Sc RADIAL	146034.8	146034.8	98.8 %		15:15:45
3	Al 396.153Radial†	239485.6	242492.1	[50000] µg/L		15:15:45
3	Ca 317.933Radial†	819348.2	828721.4	[50000] µg/L		15:15:45
3	Fe 238.204 Radial†	292983.7	296444.2	[20000] µg/L		15:15:45
3	Mg 279.077 IEC†	119881.9	121186.7	[50000] µg/L		15:15:45
3	Na 589.592 Radial†	131389.7	131798.1	[20000] µg/L		15:15:45
3	Sc 361.383	1683479.0	1683479.0	95.921 %		15:16:09
3	Y 371.029	1003957.3	1003957.3	94.353 %		15:16:09

## Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sc 361.383	1679647.4	7303.80	0.43%	95.702 %	
Sc RADIAL	146756.3	674.41	0.46%	99.3 %	
Y 371.029	1001247.1	4655.29	0.46%	94.098 %	
Al 396.153Radial†	242529.5	829.53	0.34%	[50000] µg/L	
Ca 317.933Radial†	830799.6	3234.04	0.39%	[50000] µg/L	
Fe 238.204 Radial†	297143.2	1105.88	0.37%	[20000] µg/L	
Mg 279.077 IEC†	121750.5	560.60	0.46%	[50000] µg/L	
Na 589.592 Radial†	131981.6	525.16	0.40%	[20000] µg/L	

## Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	251.6	0.00000	0.999990	
Al 396.153Radial	3	Lin Thru 0	0.0	4.853	0.00000	0.999997	
As 188.979	3	Lin Thru 0	0.0	2.866	0.00000	0.999999	
B 249.677	3	Lin Thru 0	0.0	61.33	0.00000	0.999983	
Ba 233.527	3	Lin Thru 0	0.0	229.7	0.00000	0.999999	
Be 313.107	3	Lin Thru 0	0.0	3332	0.00000	0.999999	
Ca 317.933Radial	3	Lin Thru 0	0.0	16.62	0.00000	0.999999	
Cd 226.502	3	Lin Thru 0	0.0	145.6	0.00000	0.999999	
Co 228.616	3	Lin Thru 0	0.0	73.95	0.00000	0.999995	
Cr 267.716	3	Lin Thru 0	0.0	118.7	0.00000	0.999999	
Cu 324.752	3	Lin Thru 0	0.0	237.3	0.00000	0.999996	
Fe 238.204 Radia	2	Lin Thru 0	0.0	14.86	0.00000	1.000000	
K 766.490 Radial	3	Lin Thru 0	0.0	2.430	0.00000	0.999991	
Mg 279.077 IEC	3	Lin Thru 0	0.0	2.438	0.00000	0.999986	
Mn 257.610	3	Lin Thru 0	0.0	748.2	0.00000	0.999996	
Mo 202.031	3	Lin Thru 0	0.0	31.44	0.00000	0.999999	
Na 589.592 Radia	2	Lin Thru 0	0.0	6.586	0.00000	0.999992	

Ni 231.604	3	Lin Thru 0	0.0	79.51	0.00000	0.999997
P 214.914	3	Lin Thru 0	0.0	4.192	0.00000	0.999999
Pb 220.353	3	Lin Thru 0	0.0	16.33	0.00000	0.999988
S 181.975 Axial	3	Lin Thru 0	0.0	1.220	0.00000	0.999997
Sb 206.836	3	Lin Thru 0	0.0	7.627	0.00000	1.000000
Se 196.026	3	Lin Thru 0	0.0	2.498	0.00000	0.999999
SiO2	3	Lin Thru 0	0.0	9.347	0.00000	0.999999
Si 251.611	3	Lin Thru 0	0.0	61.78	0.00000	0.999999
Sn 189.927	3	Lin Thru 0	0.0	14.44	0.00000	0.999999
Sr 421.552	3	Lin Thru 0	0.0	433.5	0.00000	0.999953
Ti 334.940	3	Lin Thru 0	0.0	998.2	0.00000	0.999999
Tl 190.801	3	Lin Thru 0	0.0	7.440	0.00000	0.999995
U 409.014	3	Lin Thru 0	0.0	15.97	0.00000	0.999597
V 292.402	3	Lin Thru 0	0.0	188.3	0.00000	0.999990
Zn 213.857	3	Lin Thru 0	0.0	161.2	0.00000	1.000000

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 3/30/2010 15:16:17

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	149158.9	149158.9	101 %		15:16:49
1	Al 396.153Radial†	25831.6	25664.3	5263.3 µg/L	5263.3 ppb	15:16:49
1	Ca 317.933Radial†	87376.8	85900.3	5168.4 µg/L	5168.4 ppb	15:16:49
1	Fe 238.204 Radial†	77792.8	76958.9	5178.5 µg/L	5178.5 ppb	15:16:49
1	K 766.490 Radial†	7770.6	6388.5	2626.3 µg/L	2626.3 ppb	15:16:49
1	Mg 279.077 IEC†	13533.9	13244.5	5442.1 µg/L	5442.1 ppb	15:16:49
1	Na 589.592 Radial†	18509.1	17137.5	2599.9 µg/L	2599.9 ppb	15:16:49
1	Sr 421.552†	239535.7	237623.0	548.12 µg/L	548.12 ppb	15:16:47
1	Sc 361.383	1733695.8	1733695.8	98.782 %		15:17:16
1	Y 371.029	1040751.9	1040751.9	97.811 %		15:17:16
1	Ag 328.068†	68135.2	65528.4	266.96 µg/L	266.96 ppb	15:17:16
1	As 188.979†	1329.3	1363.4	483.14 µg/L	483.14 ppb	15:17:36
1	B 249.677†	34869.6	32069.3	521.06 µg/L	521.06 ppb	15:17:16
1	Ba 233.527†	117588.5	119200.9	519.45 µg/L	519.45 ppb	15:17:16
1	Be 313.107†	875829.6	887416.8	266.46 µg/L	266.46 ppb	15:17:16
1	Cd 226.502†	73213.2	74226.2	509.34 µg/L	509.34 ppb	15:17:16
1	Co 228.616†	37882.5	38522.2	521.28 µg/L	521.28 ppb	15:17:16
1	Cr 267.716†	58712.5	59258.0	499.17 µg/L	499.17 ppb	15:17:16
1	Cu 324.752†	124786.7	123536.7	522.16 µg/L	522.16 ppb	15:17:16
1	Mn 257.610†	389862.8	394495.4	527.06 µg/L	527.06 ppb	15:17:16
1	Mo 202.031†	16938.7	17182.4	547.03 µg/L	547.03 ppb	15:17:36
1	Ni 231.604†	40201.0	40774.7	512.85 µg/L	512.85 ppb	15:17:16
1	P 214.914†	10575.5	10701.0	2543.4 µg/L	2543.4 ppb	15:17:36
1	Pb 220.353†	8363.7	8369.8	514.21 µg/L	514.21 ppb	15:17:36
1	S 181.975 Axial†	3115.2	3066.0	2517.9 µg/L	2517.9 ppb	15:17:36
1	Sb 206.836†	3912.6	3882.7	511.03 µg/L	511.03 ppb	15:17:36
1	Se 196.026†	6300.9	6365.0	2550 µg/L	2550 ppb	15:17:36
1	SiO2†	99885.1	99363.8	10607 µg/L	10607 ppb	15:17:16
1	Si 251.611†	304452.4	307258.6	4962.5 µg/L	4962.5 ppb	15:17:16
1	Sn 189.927†	7790.2	7888.8	547.86 µg/L	547.86 ppb	15:17:36
1	Ti 334.940†	499727.2	505004.7	505.26 µg/L	505.26 ppb	15:17:16
1	Tl 190.801†	3892.3	4057.4	552.96 µg/L	552.96 ppb	15:17:36
1	U 409.014†	7143.0	7514.9	502.35 µg/L	502.35 ppb	15:17:16
1	V 292.402†	96557.1	97438.1	524.43 µg/L	524.43 ppb	15:17:16
1	Zn 213.857†	83773.2	84281.8	518.68 µg/L	518.68 ppb	15:17:16
2	Sc RADIAL	150464.5	150464.5	102 %		15:16:53
2	Al 396.153Radial†	26338.4	25940.0	5320.0 µg/L	5320.0 ppb	15:16:53
2	Ca 317.933Radial†	88167.1	85925.3	5169.9 µg/L	5169.9 ppb	15:16:53
2	Fe 238.204 Radial†	78818.8	77298.0	5201.3 µg/L	5201.3 ppb	15:16:53
2	K 766.490 Radial†	7643.7	6197.1	2547.5 µg/L	2547.5 ppb	15:16:53
2	Mg 279.077 IEC†	13736.8	13327.5	5476.1 µg/L	5476.1 ppb	15:16:53
2	Na 589.592 Radial†	18678.7	17145.0	2601.2 µg/L	2601.2 ppb	15:16:53
2	Sr 421.552†	239844.1	235866.0	544.07 µg/L	544.07 ppb	15:16:51
2	Sc 361.383	1726627.6	1726627.6	98.379 %		15:17:39
2	Y 371.029	1036918.0	1036918.0	97.451 %		15:17:39
2	Ag 328.068†	67812.3	65482.6	266.77 µg/L	266.77 ppb	15:17:39
2	As 188.979†	1343.8	1383.7	490.23 µg/L	490.23 ppb	15:17:59
2	B 249.677†	34859.4	32203.4	523.24 µg/L	523.24 ppb	15:17:39
2	Ba 233.527†	117491.5	119589.6	521.15 µg/L	521.15 ppb	15:17:39
2	Be 313.107†	873409.7	888586.5	266.81 µg/L	266.81 ppb	15:17:39
2	Cd 226.502†	73073.6	74387.6	510.44 µg/L	510.44 ppb	15:17:39
2	Co 228.616†	37714.1	38508.0	521.09 µg/L	521.09 ppb	15:17:39
2	Cr 267.716†	58529.2	59315.0	499.66 µg/L	499.66 ppb	15:17:39
2	Cu 324.752†	124562.2	123825.7	523.38 µg/L	523.38 ppb	15:17:39
2	Mn 257.610†	389247.0	395485.0	528.38 µg/L	528.38 ppb	15:17:39
2	Mo 202.031†	16924.2	17237.8	548.80 µg/L	548.80 ppb	15:17:59
2	Ni 231.604†	40215.9	40956.5	515.14 µg/L	515.14 ppb	15:17:39
2	P 214.914†	10595.6	10765.2	2558.7 µg/L	2558.7 ppb	15:17:59
2	Pb 220.353†	8379.7	8420.8	517.34 µg/L	517.34 ppb	15:17:59

2	S 181.975 Axial†	3127.7	3091.5	2538.8 µg/L	2538.8 ppb	15:17:59
2	Sb 206.836†	3893.4	3879.5	510.62 µg/L	510.62 ppb	15:17:59
2	Se 196.026†	6305.0	6395.3	2560 µg/L	2560 ppb	15:17:59
2	SiO2†	99950.6	99844.4	10658 µg/L	10658 ppb	15:17:39
2	Si 251.611†	303842.4	307900.2	4972.8 µg/L	4972.8 ppb	15:17:39
2	Sn 189.927†	7799.1	7930.2	550.73 µg/L	550.73 ppb	15:17:59
2	Ti 334.940†	499097.0	506435.1	506.70 µg/L	506.70 ppb	15:17:39
2	Tl 190.801†	3884.6	4065.7	554.09 µg/L	554.09 ppb	15:17:59
2	U 409.014†	7044.9	7444.7	497.98 µg/L	497.98 ppb	15:17:39
2	V 292.402†	96220.1	97495.7	524.75 µg/L	524.75 ppb	15:17:39
2	Zn 213.857†	83633.8	84487.3	519.94 µg/L	519.94 ppb	15:17:39
3	Sc RADIAL	148694.2	148694.2	101 %		15:16:57
3	Al 396.153Radial†	25757.3	25670.4	5264.3 µg/L	5264.3 ppb	15:16:57
3	Ca 317.933Radial†	86641.6	85440.0	5140.7 µg/L	5140.7 ppb	15:16:57
3	Fe 238.204 Radial†	77077.3	76488.6	5146.8 µg/L	5146.8 ppb	15:16:57
3	K 766.490 Radial†	7760.1	6402.2	2631.9 µg/L	2631.9 ppb	15:16:57
3	Mg 279.077 IEC†	13465.4	13218.4	5431.5 µg/L	5431.5 ppb	15:16:57
3	Na 589.592 Radial†	18458.7	17144.8	2601.0 µg/L	2601.0 ppb	15:16:57
3	Sr 421.552†	238015.5	236853.6	546.35 µg/L	546.35 ppb	15:16:55
3	Sc 361.383	1717483.0	1717483.0	97.858 %		15:18:02
3	Y 371.029	1031891.3	1031891.3	96.978 %		15:18:02
3	Ag 328.068†	67510.7	65541.4	267.02 µg/L	267.02 ppb	15:18:02
3	As 188.979†	1346.0	1393.2	493.54 µg/L	493.54 ppb	15:18:22
3	B 249.677†	34582.2	32108.8	521.70 µg/L	521.70 ppb	15:18:02
3	Ba 233.527†	116478.8	119190.5	519.41 µg/L	519.41 ppb	15:18:02
3	Be 313.107†	866925.4	886687.4	266.25 µg/L	266.25 ppb	15:18:02
3	Cd 226.502†	72305.6	73998.3	507.78 µg/L	507.78 ppb	15:18:02
3	Co 228.616†	37543.9	38538.1	521.50 µg/L	521.50 ppb	15:18:02
3	Cr 267.716†	58047.4	59139.5	498.16 µg/L	498.16 ppb	15:18:02
3	Cu 324.752†	123812.4	123733.6	522.99 µg/L	522.99 ppb	15:18:02
3	Mn 257.610†	386013.5	394287.5	526.78 µg/L	526.78 ppb	15:18:02
3	Mo 202.031†	16915.6	17320.6	551.43 µg/L	551.43 ppb	15:18:22
3	Ni 231.604†	40039.0	40993.3	515.60 µg/L	515.60 ppb	15:18:02
3	P 214.914†	10618.3	10845.7	2578.0 µg/L	2578.0 ppb	15:18:22
3	Pb 220.353†	8376.9	8463.3	519.94 µg/L	519.94 ppb	15:18:22
3	S 181.975 Axial†	3127.7	3108.5	2552.8 µg/L	2552.8 ppb	15:18:22
3	Sb 206.836†	3899.6	3906.9	514.27 µg/L	514.27 ppb	15:18:22
3	Se 196.026†	6296.1	6420.3	2570 µg/L	2570 ppb	15:18:22
3	SiO2†	99144.2	99561.3	10628 µg/L	10628 ppb	15:18:02
3	Si 251.611†	301303.2	306949.8	4957.4 µg/L	4957.4 ppb	15:18:02
3	Sn 189.927†	7767.3	7939.9	551.39 µg/L	551.39 ppb	15:18:22
3	Ti 334.940†	494745.0	504689.0	504.94 µg/L	504.94 ppb	15:18:02
3	Tl 190.801†	3887.5	4089.7	557.29 µg/L	557.29 ppb	15:18:22
3	U 409.014†	7321.2	7765.3	517.97 µg/L	517.97 ppb	15:18:02
3	V 292.402†	95435.5	97214.7	523.30 µg/L	523.30 ppb	15:18:02
3	Zn 213.857†	82911.3	84201.6	518.17 µg/L	518.17 ppb	15:18:02

## Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1725935.5	98.340 %	0.4631			0.47%
Sc RADIAL	149439.2	101 %	0.6			0.61%
Y 371.029	1036520.4	97.413 %	0.4176			0.43%
Ag 328.068†	65517.5	266.92 µg/L	0.126	266.92 ppb	0.126	0.05%
QC value within limits for Ag 328.068 Recovery = 106.77%						
Al 396.153Radial†	25758.3	5282.6 µg/L	32.46	5282.6 ppb	32.46	0.61%
QC value within limits for Al 396.153Radial Recovery = 105.65%						
As 188.979†	1380.1	488.97 µg/L	5.311	488.97 ppb	5.311	1.09%
QC value within limits for As 188.979 Recovery = 97.79%						
B 249.677†	32127.2	522.00 µg/L	1.124	522.00 ppb	1.124	0.22%
QC value within limits for B 249.677 Recovery = 104.40%						
Ba 233.527†	119327.0	520.00 µg/L	0.990	520.00 ppb	0.990	0.19%
QC value within limits for Ba 233.527 Recovery = 104.00%						
Be 313.107†	887563.5	266.51 µg/L	0.285	266.51 ppb	0.285	0.11%
QC value within limits for Be 313.107 Recovery = 106.60%						
Ca 317.933Radial†	85755.2	5159.7 µg/L	16.44	5159.7 ppb	16.44	0.32%
QC value within limits for Ca 317.933Radial Recovery = 103.19%						
Cd 226.502†	74204.1	509.18 µg/L	1.340	509.18 ppb	1.340	0.26%
QC value within limits for Cd 226.502 Recovery = 101.84%						
Co 228.616†	38522.7	521.29 µg/L	0.204	521.29 ppb	0.204	0.04%

QC value within limits for Co 228.616 Recovery = 104.26%							
Cr 267.716†	59237.5	499.00 µg/L	0.764	499.00 ppb	0.764	0.15%	
QC value within limits for Cr 267.716 Recovery = 99.80%							
Cu 324.752†	123698.7	522.84 µg/L	0.623	522.84 ppb	0.623	0.12%	
QC value within limits for Cu 324.752 Recovery = 104.57%							
Fe 238.204 Radial†	76915.2	5175.5 µg/L	27.35	5175.5 ppb	27.35	0.53%	
QC value within limits for Fe 238.204 Radial Recovery = 103.51%							
K 766.490 Radial†	6329.3	2601.9 µg/L	47.21	2601.9 ppb	47.21	1.81%	
QC value within limits for K 766.490 Radial Recovery = 104.08%							
Mg 279.077 IEC†	13263.4	5449.9 µg/L	23.33	5449.9 ppb	23.33	0.43%	
QC value within limits for Mg 279.077 IEC Recovery = 109.00%							
Mn 257.610†	394756.0	527.41 µg/L	0.854	527.41 ppb	0.854	0.16%	
QC value within limits for Mn 257.610 Recovery = 105.48%							
Mo 202.031†	17246.9	549.09 µg/L	2.212	549.09 ppb	2.212	0.40%	
QC value within limits for Mo 202.031 Recovery = 109.82%							
Na 589.592 Radial†	17142.4	2600.7 µg/L	0.67	2600.7 ppb	0.67	0.03%	
QC value within limits for Na 589.592 Radial Recovery = 104.03%							
Ni 231.604†	40908.1	514.53 µg/L	1.472	514.53 ppb	1.472	0.29%	
QC value within limits for Ni 231.604 Recovery = 102.91%							
P 214.914†	10770.6	2560.0 µg/L	17.30	2560.0 ppb	17.30	0.68%	
QC value within limits for P 214.914 Recovery = 102.40%							
Pb 220.353†	8418.0	517.16 µg/L	2.867	517.16 ppb	2.867	0.55%	
QC value within limits for Pb 220.353 Recovery = 103.43%							
S 181.975 Axial†	3088.6	2536.5 µg/L	17.56	2536.5 ppb	17.56	0.69%	
QC value within limits for S 181.975 Axial Recovery = 101.46%							
Sb 206.836†	3889.7	511.97 µg/L	2.001	511.97 ppb	2.001	0.39%	
QC value within limits for Sb 206.836 Recovery = 102.39%							
Se 196.026†	6393.5	2560 µg/L	11.1	2560 ppb	11.1	0.43%	
QC value within limits for Se 196.026 Recovery = 102.46%							
SiO2†	99589.8	10631 µg/L	25.8	10631 ppb	25.8	0.24%	
QC value within limits for SiO2 Recovery = 99.40%							
Si 251.611†	307369.5	4964.2 µg/L	7.86	4964.2 ppb	7.86	0.16%	
QC value within limits for Si 251.611 Recovery = 99.28%							
Sn 189.927†	7919.6	549.99 µg/L	1.879	549.99 ppb	1.879	0.34%	
QC value within limits for Sn 189.927 Recovery = 110.00%							
Sr 421.552†	236780.8	546.18 µg/L	2.032	546.18 ppb	2.032	0.37%	
QC value within limits for Sr 421.552 Recovery = 109.24%							
Ti 334.940†	505376.2	505.63 µg/L	0.934	505.63 ppb	0.934	0.18%	
QC value within limits for Ti 334.940 Recovery = 101.13%							
Tl 190.801†	4070.9	554.78 µg/L	2.246	554.78 ppb	2.246	0.40%	
QC value greater than the upper limit for Tl 190.801 Recovery = 110.96%							
U 409.014†	7575.0	506.10 µg/L	10.510	506.10 ppb	10.510	2.08%	
QC value within limits for U 409.014 Recovery = 101.22%							
V 292.402†	97382.8	524.16 µg/L	0.762	524.16 ppb	0.762	0.15%	
QC value within limits for V 292.402 Recovery = 104.83%							
Zn 213.857†	84323.6	518.93 µg/L	0.911	518.93 ppb	0.911	0.18%	
QC value within limits for Zn 213.857 Recovery = 103.79%							
QC Failed. Continue with analysis.							

Sequence No.: 7

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 3/30/2010 15:18:31

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	153206.5	153206.5	104 %		15:19:00
1	Al 396.153Radial†	-69.1	-3.8	-0.7740 µg/L	-0.7740 ppb	15:19:20
1	Ca 317.933Radial†	556.4	-161.1	-9.6939 µg/L	-9.6939 ppb	15:19:20
1	Fe 238.204 Radial†	151.0	5.0	0.3342 µg/L	0.3342 ppb	15:19:20
1	K 766.490 Radial†	1545.6	178.5	73.465 µg/L	73.465 ppb	15:19:00
1	Mg 279.077 IEC†	183.7	8.5	3.4678 µg/L	3.4678 ppb	15:19:20
1	Na 589.592 Radial†	1438.4	181.3	27.462 µg/L	27.462 ppb	15:19:00
1	Sr 421.552†	-358.4	-124.2	-0.2864 µg/L	-0.2864 ppb	15:19:00
1	Sc 361.383	1778800.0	1778800.0	101.35 %		15:20:22
1	Y 371.029	1078865.1	1078865.1	101.39 %		15:20:22
1	Ag 328.068†	3508.3	14.4	0.0586 µg/L	0.0586 ppb	15:20:24
1	As 188.979†	-17.8	0.1	0.0419 µg/L	0.0419 ppb	15:20:44
1	B 249.677†	3246.0	-27.6	-0.4511 µg/L	-0.4511 ppb	15:20:44
1	Ba 233.527†	-161.5	2.8	0.0123 µg/L	0.0123 ppb	15:20:44
1	Be 313.107†	-690.5	104.3	0.0315 µg/L	0.0315 ppb	15:20:24
1	Cd 226.502†	-93.8	17.5	0.1201 µg/L	0.1201 ppb	15:20:44
1	Co 228.616†	-157.8	16.7	0.2258 µg/L	0.2258 ppb	15:20:44
1	Cr 267.716†	167.7	-13.1	-0.1107 µg/L	-0.1107 ppb	15:20:44
1	Cu 324.752†	2840.6	13.8	0.0589 µg/L	0.0589 ppb	15:20:24
1	Mn 257.610†	177.2	-0.8	-0.0012 µg/L	-0.0012 ppb	15:20:44
1	Mo 202.031†	-35.1	0.1	0.0047 µg/L	0.0047 ppb	15:20:44
1	Ni 231.604†	-78.0	1.0	0.0124 µg/L	0.0124 ppb	15:20:44
1	P 214.914†	12.7	7.5	1.7929 µg/L	1.7929 ppb	15:20:44
1	Pb 220.353†	60.9	-36.9	-2.2599 µg/L	-2.2599 ppb	15:20:44
1	S 181.975 Axial†	88.2	-0.7	-0.5610 µg/L	-0.5610 ppb	15:20:44
1	Sb 206.836†	85.2	6.0	0.7853 µg/L	0.7853 ppb	15:20:44
1	Se 196.026†	10.8	-2.9	-1.16 µg/L	-1.16 ppb	15:20:44
1	SiO2†	1722.8	-53.3	-5.7163 µg/L	-5.7163 ppb	15:20:44
1	Si 251.611†	826.6	-133.1	-2.1594 µg/L	-2.1594 ppb	15:20:24
1	Sn 189.927†	10.2	12.7	0.8755 µg/L	0.8755 ppb	15:20:44
1	Ti 334.940†	723.6	-171.6	-0.1727 µg/L	-0.1727 ppb	15:20:24
1	Tl 190.801†	-106.8	11.7	1.5760 µg/L	1.5760 ppb	15:20:44
1	U 409.014†	-277.6	9.9	0.6216 µg/L	0.6216 ppb	15:20:24
1	V 292.402†	320.4	6.3	0.0333 µg/L	0.0333 ppb	15:20:24
1	Zn 213.857†	499.5	-31.7	-0.1969 µg/L	-0.1969 ppb	15:20:44
2	Sc RADIAL	150721.0	150721.0	102 %		15:19:22
2	Al 396.153Radial†	-48.2	15.6	3.2216 µg/L	3.2216 ppb	15:19:42
2	Ca 317.933Radial†	575.9	-133.2	-8.0115 µg/L	-8.0115 ppb	15:19:42
2	Fe 238.204 Radial†	145.3	1.8	0.1215 µg/L	0.1215 ppb	15:19:42
2	K 766.490 Radial†	1483.0	141.7	58.321 µg/L	58.321 ppb	15:19:22
2	Mg 279.077 IEC†	163.5	-8.4	-3.4473 µg/L	-3.4473 ppb	15:19:42
2	Na 589.592 Radial†	1391.5	158.1	23.961 µg/L	23.961 ppb	15:19:22
2	Sr 421.552†	-206.6	19.0	0.0439 µg/L	0.0439 ppb	15:19:22
2	Sc 361.383	1728906.2	1728906.2	98.509 %		15:20:46
2	Y 371.029	1049241.8	1049241.8	98.609 %		15:20:46
2	Ag 328.068†	3539.7	146.2	0.5945 µg/L	0.5945 ppb	15:20:48
2	As 188.979†	-19.5	-2.1	-0.7336 µg/L	-0.7336 ppb	15:21:09
2	B 249.677†	3272.0	91.1	1.4866 µg/L	1.4866 ppb	15:21:09
2	Ba 233.527†	-163.6	-3.9	-0.0168 µg/L	-0.0168 ppb	15:21:09
2	Be 313.107†	-841.3	-68.5	-0.0184 µg/L	-0.0184 ppb	15:20:48
2	Cd 226.502†	-103.2	5.3	0.0364 µg/L	0.0364 ppb	15:21:09
2	Co 228.616†	-181.8	-12.1	-0.1642 µg/L	-0.1642 ppb	15:21:09
2	Cr 267.716†	152.0	-24.2	-0.2095 µg/L	-0.2095 ppb	15:21:09
2	Cu 324.752†	2859.0	113.3	0.4833 µg/L	0.4833 ppb	15:20:48
2	Mn 257.610†	143.9	-29.5	-0.0393 µg/L	-0.0393 ppb	15:21:09
2	Mo 202.031†	-37.4	-3.3	-0.1034 µg/L	-0.1034 ppb	15:21:09
2	Ni 231.604†	-63.8	13.1	0.1646 µg/L	0.1646 ppb	15:21:09
2	P 214.914†	23.6	18.9	4.5148 µg/L	4.5148 ppb	15:21:09
2	Pb 220.353†	114.5	19.3	1.1760 µg/L	1.1760 ppb	15:21:09

2	S 181.975 Axial†	90.2	3.8	3.1293 µg/L	3.1293 ppb	15:21:09
2	Sb 206.836†	78.1	1.2	0.1567 µg/L	0.1567 ppb	15:21:09
2	Se 196.026†	19.1	5.8	2.34 µg/L	2.34 ppb	15:21:09
2	SiO2†	1747.5	20.9	2.2278 µg/L	2.2278 ppb	15:21:09
2	Si 251.611†	794.7	-141.9	-2.2988 µg/L	-2.2988 ppb	15:20:48
2	Sn 189.927†	3.9	6.5	0.4511 µg/L	0.4511 ppb	15:21:09
2	Ti 334.940†	935.4	64.0	0.0614 µg/L	0.0614 ppb	15:20:48
2	Tl 190.801†	-90.0	25.7	3.4630 µg/L	3.4630 ppb	15:21:09
2	U 409.014†	-168.9	112.3	7.0568 µg/L	7.0568 ppb	15:20:48
2	V 292.402†	376.2	72.1	0.3855 µg/L	0.3855 ppb	15:20:48
2	Zn 213.857†	512.2	-4.7	-0.0302 µg/L	-0.0302 ppb	15:21:09
3	Sc RADIAL	152025.6	152025.6	103 %		15:19:44
3	Al 396.153Radial†	-48.0	16.2	3.3357 µg/L	3.3357 ppb	15:20:04
3	Ca 317.933Radial†	564.3	-149.3	-8.9821 µg/L	-8.9821 ppb	15:20:04
3	Fe 238.204 Radial†	130.3	-14.0	-0.9447 µg/L	-0.9447 ppb	15:20:04
3	K 766.490 Radial†	1448.5	95.7	39.384 µg/L	39.384 ppb	15:19:44
3	Mg 279.077 IEC†	171.7	-1.8	-0.7289 µg/L	-0.7289 ppb	15:20:04
3	Na 589.592 Radial†	1555.7	306.1	46.445 µg/L	46.445 ppb	15:19:44
3	Sr 421.552†	-343.8	-112.6	-0.2598 µg/L	-0.2598 ppb	15:19:44
3	Sc 361.383	1742344.9	1742344.9	99.275 %		15:21:11
3	Y 371.029	1057263.7	1057263.7	99.363 %		15:21:11
3	Ag 328.068†	3422.8	0.7	0.0063 µg/L	0.0063 ppb	15:21:13
3	As 188.979†	-7.6	10.0	3.4870 µg/L	3.4870 ppb	15:21:33
3	B 249.677†	3234.7	28.0	0.4564 µg/L	0.4564 ppb	15:21:33
3	Ba 233.527†	-159.6	1.4	0.0057 µg/L	0.0057 ppb	15:21:33
3	Be 313.107†	-681.8	98.8	0.0318 µg/L	0.0318 ppb	15:21:13
3	Cd 226.502†	-79.8	29.6	0.2034 µg/L	0.2034 ppb	15:21:33
3	Co 228.616†	-174.0	-2.8	-0.0378 µg/L	-0.0378 ppb	15:21:33
3	Cr 267.716†	147.7	-29.7	-0.2566 µg/L	-0.2566 ppb	15:21:33
3	Cu 324.752†	2965.4	198.1	0.8405 µg/L	0.8405 ppb	15:21:13
3	Mn 257.610†	154.7	-19.8	-0.0264 µg/L	-0.0264 ppb	15:21:33
3	Mo 202.031†	-28.3	6.3	0.1999 µg/L	0.1999 ppb	15:21:33
3	Ni 231.604†	-70.4	6.9	0.0872 µg/L	0.0872 ppb	15:21:33
3	P 214.914†	20.5	15.7	3.7359 µg/L	3.7359 ppb	15:21:33
3	Pb 220.353†	105.1	8.9	0.5395 µg/L	0.5395 ppb	15:21:33
3	S 181.975 Axial†	78.6	-8.5	-6.9957 µg/L	-6.9957 ppb	15:21:33
3	Sb 206.836†	83.3	5.8	0.7689 µg/L	0.7689 ppb	15:21:33
3	Se 196.026†	22.9	9.5	3.79 µg/L	3.79 ppb	15:21:33
3	SiO2†	1714.3	-26.3	-2.8302 µg/L	-2.8302 ppb	15:21:33
3	Si 251.611†	912.8	-29.2	-0.4782 µg/L	-0.4782 ppb	15:21:13
3	Sn 189.927†	4.9	7.5	0.5192 µg/L	0.5192 ppb	15:21:33
3	Ti 334.940†	727.2	-153.0	-0.1564 µg/L	-0.1564 ppb	15:21:13
3	Tl 190.801†	-113.2	3.0	0.4038 µg/L	0.4038 ppb	15:21:33
3	U 409.014†	-166.2	116.3	7.2590 µg/L	7.2590 ppb	15:21:13
3	V 292.402†	217.4	-90.9	-0.4764 µg/L	-0.4764 ppb	15:21:13
3	Zn 213.857†	498.8	-22.1	-0.1381 µg/L	-0.1381 ppb	15:21:33

## Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1750017.0	99.712 %	%	1.4710			1.48%
Sc RADIAL	151984.4	103 %	%	0.8			0.82%
Y 371.029	1061790.2	99.788 %	%	1.4399			1.44%
Ag 328.068†	53.8	0.2198 µg/L	µg/L	0.32552	0.2198 ppb	0.32552	148.11%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	9.4	1.9278 µg/L	µg/L	2.34050	1.9278 ppb	2.34050	121.41%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	2.7	0.9318 µg/L	µg/L	2.24662	0.9318 ppb	2.24662	241.11%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	30.5	0.4973 µg/L	µg/L	0.96947	0.4973 ppb	0.96947	194.95%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	0.1	0.0004 µg/L	µg/L	0.01528	0.0004 ppb	0.01528	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	44.9	0.0150 µg/L	µg/L	0.02892	0.0150 ppb	0.02892	193.16%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-147.9	-8.8958 µg/L	µg/L	0.84451	-8.8958 ppb	0.84451	9.49%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	17.5	0.1200 µg/L	µg/L	0.08355	0.1200 ppb	0.08355	69.64%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	0.6	0.0079 µg/L	µg/L	0.19896	0.0079 ppb	0.19896	>999.9%



Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated				
	-22.4	-0.1923 µg/L	0.07446	-0.1923 ppb	0.07446	38.72%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated				
	108.4	0.4609 µg/L	0.39130	0.4609 ppb	0.39130	84.90%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated				
	-2.4	-0.1630 µg/L	0.68528	-0.1630 ppb	0.68528	420.53%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated				
	138.6	57.056 µg/L	17.0760	57.056 ppb	17.0760	29.93%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated				
	-0.6	-0.2362 µg/L	3.48380	-0.2362 ppb	3.48380	>999.9%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated				
	-16.7	-0.0223 µg/L	0.01938	-0.0223 ppb	0.01938	86.94%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated				
	1.1	0.0337 µg/L	0.15371	0.0337 ppb	0.15371	455.98%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated				
	215.2	32.622 µg/L	12.0980	32.622 ppb	12.0980	37.09%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated				
	7.0	0.0880 µg/L	0.07611	0.0880 ppb	0.07611	86.44%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated				
	14.0	3.3479 µg/L	1.40183	3.3479 ppb	1.40183	41.87%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated				
	-2.9	-0.1815 µg/L	1.82791	-0.1815 ppb	1.82791	>999.9%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated				
	-1.8	-1.4758 µg/L	5.12412	-1.4758 ppb	5.12412	347.21%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated				
	4.3	0.5703 µg/L	0.35827	0.5703 ppb	0.35827	62.82%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated				
	4.1	1.66 µg/L	2.544	1.66 ppb	2.544	153.28%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated				
	-19.6	-2.1063 µg/L	4.02123	-2.1063 ppb	4.02123	190.92%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated				
	-101.4	-1.6455 µg/L	1.01329	-1.6455 ppb	1.01329	61.58%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated				
	8.9	0.6153 µg/L	0.22794	0.6153 ppb	0.22794	37.05%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated				
	-72.6	-0.1674 µg/L	0.18347	-0.1674 ppb	0.18347	109.58%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated				
	-86.9	-0.0892 µg/L	0.13068	-0.0892 ppb	0.13068	146.45%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated				
	13.5	1.8143 µg/L	1.54345	1.8143 ppb	1.54345	85.07%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated				
	79.5	4.9791 µg/L	3.77508	4.9791 ppb	3.77508	75.82%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated				
	-4.2	-0.0192 µg/L	0.43332	-0.0192 ppb	0.43332	>999.9%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated				
	-19.5	-0.1217 µg/L	0.08455	-0.1217 ppb	0.08455	69.46%
	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: 3/30/2010 15:21:41

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	151538.9	151538.9	103 %		15:22:11
1	Al 396.153Radial†	1003.2	1041.6	214.21 µg/L	214.21 ppb	15:22:13
1	Ca 317.933Radial†	4094.6	3296.4	198.34 µg/L	198.34 ppb	15:22:13
1	Fe 238.204 Radial†	1655.5	1474.3	99.205 µg/L	99.205 ppb	15:22:13
1	K 766.490 Radial†	1863.9	505.5	207.89 µg/L	207.89 ppb	15:22:11
1	Mg 279.077 IEC†	958.9	766.6	314.63 µg/L	314.63 ppb	15:22:13
1	Na 589.592 Radial†	3105.5	1822.9	276.62 µg/L	276.62 ppb	15:22:13
1	Sr 421.552†	2223.1	2390.3	5.5126 µg/L	5.5126 ppb	15:22:13
1	Sc 361.383	1725451.3	1725451.3	98.312 %		15:22:25
1	Y 371.029	1045817.3	1045817.3	98.287 %		15:22:25
1	Ag 328.068†	4999.9	1638.6	6.6213 µg/L	6.6213 ppb	15:22:27
1	As 188.979†	69.8	88.7	31.042 µg/L	31.042 ppb	15:22:47
1	B 249.677†	6177.2	3052.9	49.758 µg/L	49.758 ppb	15:22:27
1	Ba 233.527†	1015.0	1194.5	5.2065 µg/L	5.2065 ppb	15:22:47
1	Be 313.107†	15418.6	16468.9	4.9544 µg/L	4.9544 ppb	15:22:27
1	Cd 226.502†	613.7	734.2	5.0333 µg/L	5.0333 ppb	15:22:47
1	Co 228.616†	186.0	361.7	4.8917 µg/L	4.8917 ppb	15:22:47
1	Cr 267.716†	742.4	576.6	4.8271 µg/L	4.8271 ppb	15:22:47
1	Cu 324.752†	5231.2	2532.1	10.728 µg/L	10.728 ppb	15:22:27
1	Mn 257.610†	7935.2	7895.9	10.541 µg/L	10.541 ppb	15:22:27
1	Mo 202.031†	249.7	288.8	9.1970 µg/L	9.1970 ppb	15:22:47
1	Ni 231.604†	321.7	405.1	5.0950 µg/L	5.0950 ppb	15:22:47
1	P 214.914†	631.6	637.5	151.90 µg/L	151.90 ppb	15:22:47
1	Pb 220.353†	247.1	154.4	9.4588 µg/L	9.4588 ppb	15:22:47
1	S 181.975 Axial†	205.3	121.2	99.392 µg/L	99.392 ppb	15:22:47
1	Sb 206.836†	157.6	82.2	10.863 µg/L	10.863 ppb	15:22:47
1	Se 196.026†	84.0	71.8	28.8 µg/L	28.8 ppb	15:22:47
1	SiO2†	3795.8	2107.8	225.10 µg/L	225.10 ppb	15:22:27
1	Si 251.611†	7081.1	6254.0	101.04 µg/L	101.04 ppb	15:22:27
1	Sn 189.927†	137.7	142.6	9.8879 µg/L	9.8879 ppb	15:22:47
1	Ti 334.940†	5809.9	5024.1	4.9951 µg/L	4.9951 ppb	15:22:27
1	Tl 190.801†	48.7	166.6	22.483 µg/L	22.483 ppb	15:22:47
1	U 409.014†	339.2	628.8	39.760 µg/L	39.760 ppb	15:22:27
1	V 292.402†	1353.2	1066.6	5.7900 µg/L	5.7900 ppb	15:22:27
1	Zn 213.857†	2145.8	1658.1	10.236 µg/L	10.236 ppb	15:22:47
2	Sc RADIAL	148899.4	148899.4	101 %		15:22:15
2	Al 396.153Radial†	1029.3	1084.8	223.07 µg/L	223.07 ppb	15:22:17
2	Ca 317.933Radial†	4074.2	3347.0	201.38 µg/L	201.38 ppb	15:22:17
2	Fe 238.204 Radial†	1672.9	1520.1	102.29 µg/L	102.29 ppb	15:22:17
2	K 766.490 Radial†	1737.9	412.6	169.65 µg/L	169.65 ppb	15:22:15
2	Mg 279.077 IEC†	908.9	733.6	301.09 µg/L	301.09 ppb	15:22:17
2	Na 589.592 Radial†	3196.8	1967.2	298.57 µg/L	298.57 ppb	15:22:17
2	Sr 421.552†	2249.0	2454.5	5.6605 µg/L	5.6605 ppb	15:22:17
2	Sc 361.383	1717434.8	1717434.8	97.855 %		15:22:49
2	Y 371.029	1041401.9	1041401.9	97.872 %		15:22:49
2	Ag 328.068†	4641.9	1296.6	5.2704 µg/L	5.2704 ppb	15:22:51
2	As 188.979†	74.8	94.2	32.949 µg/L	32.949 ppb	15:23:11
2	B 249.677†	6109.5	3013.0	49.107 µg/L	49.107 ppb	15:22:51
2	Ba 233.527†	1038.4	1223.3	5.3319 µg/L	5.3319 ppb	15:23:11
2	Be 313.107†	15483.7	16608.6	4.9987 µg/L	4.9987 ppb	15:22:51
2	Cd 226.502†	609.6	733.0	5.0245 µg/L	5.0245 ppb	15:23:11
2	Co 228.616†	220.5	397.7	5.3796 µg/L	5.3796 ppb	15:23:11
2	Cr 267.716†	746.1	583.9	4.8822 µg/L	4.8822 ppb	15:23:11
2	Cu 324.752†	5004.9	2325.7	9.8653 µg/L	9.8653 ppb	15:22:51
2	Mn 257.610†	7953.3	7952.0	10.617 µg/L	10.617 ppb	15:22:51
2	Mo 202.031†	280.4	321.3	10.233 µg/L	10.233 ppb	15:23:11
2	Ni 231.604†	327.6	412.6	5.1901 µg/L	5.1901 ppb	15:23:11
2	P 214.914†	627.8	636.5	151.69 µg/L	151.69 ppb	15:23:11
2	Pb 220.353†	232.0	140.1	8.5854 µg/L	8.5854 ppb	15:23:11

2	S 181.975 Axial†	215.9	132.9	109.04 µg/L	109.04 ppb	15:23:11
2	Sb 206.836†	152.4	77.7	10.282 µg/L	10.282 ppb	15:23:11
2	Se 196.026†	92.7	81.2	32.6 µg/L	32.6 ppb	15:23:11
2	SiO2†	3796.8	2126.8	227.10 µg/L	227.10 ppb	15:22:51
2	Si 251.611†	7000.4	6205.2	100.23 µg/L	100.23 ppb	15:22:51
2	Sn 189.927†	143.5	149.1	10.342 µg/L	10.342 ppb	15:23:11
2	Ti 334.940†	5589.1	4826.0	4.7945 µg/L	4.7945 ppb	15:22:51
2	Tl 190.801†	51.0	169.2	22.830 µg/L	22.830 ppb	15:23:11
2	U 409.014†	463.4	757.3	47.801 µg/L	47.801 ppb	15:22:51
2	V 292.402†	1329.4	1048.7	5.7113 µg/L	5.7113 ppb	15:22:51
2	Zn 213.857†	2132.0	1654.1	10.211 µg/L	10.211 ppb	15:23:11
3	Sc RADIAL	147081.9	147081.9	99.5 %		15:22:19
3	Al 396.153Radial†	978.9	1046.8	215.27 µg/L	215.27 ppb	15:22:21
3	Ca 317.933Radial†	4080.3	3403.1	204.76 µg/L	204.76 ppb	15:22:21
3	Fe 238.204 Radial†	1709.0	1577.0	106.12 µg/L	106.12 ppb	15:22:21
3	K 766.490 Radial†	1766.2	462.3	190.12 µg/L	190.12 ppb	15:22:19
3	Mg 279.077 IEC†	964.2	800.3	328.44 µg/L	328.44 ppb	15:22:21
3	Na 589.592 Radial†	3215.9	2025.6	307.42 µg/L	307.42 ppb	15:22:21
3	Sr 421.552†	2210.3	2443.2	5.6344 µg/L	5.6344 ppb	15:22:21
3	Sc 361.383	1716395.9	1716395.9	97.796 %		15:23:13
3	Y 371.029	1041833.4	1041833.4	97.913 %		15:23:13
3	Ag 328.068†	4888.2	1551.3	6.2744 µg/L	6.2744 ppb	15:23:15
3	As 188.979†	68.7	88.0	30.793 µg/L	30.793 ppb	15:23:35
3	B 249.677†	6241.4	3151.7	51.368 µg/L	51.368 ppb	15:23:15
3	Ba 233.527†	993.3	1177.8	5.1332 µg/L	5.1332 ppb	15:23:35
3	Be 313.107†	15462.3	16596.3	4.9945 µg/L	4.9945 ppb	15:23:15
3	Cd 226.502†	611.3	735.1	5.0386 µg/L	5.0386 ppb	15:23:35
3	Co 228.616†	213.2	390.4	5.2802 µg/L	5.2802 ppb	15:23:35
3	Cr 267.716†	767.8	606.5	5.0744 µg/L	5.0744 ppb	15:23:35
3	Cu 324.752†	5204.8	2533.2	10.739 µg/L	10.739 ppb	15:23:15
3	Mn 257.610†	7893.3	7895.6	10.540 µg/L	10.540 ppb	15:23:15
3	Mo 202.031†	255.2	295.7	9.4171 µg/L	9.4171 ppb	15:23:35
3	Ni 231.604†	332.4	417.8	5.2544 µg/L	5.2544 ppb	15:23:35
3	P 214.914†	626.6	635.7	151.47 µg/L	151.47 ppb	15:23:35
3	Pb 220.353†	252.3	161.1	9.8653 µg/L	9.8653 ppb	15:23:35
3	S 181.975 Axial†	209.7	126.7	103.93 µg/L	103.93 ppb	15:23:35
3	Sb 206.836†	150.6	75.9	10.029 µg/L	10.029 ppb	15:23:35
3	Se 196.026†	96.6	85.2	34.2 µg/L	34.2 ppb	15:23:35
3	SiO2†	3748.3	2079.7	222.08 µg/L	222.08 ppb	15:23:15
3	Si 251.611†	6933.3	6140.9	99.207 µg/L	99.207 ppb	15:23:15
3	Sn 189.927†	138.0	143.7	9.9640 µg/L	9.9640 ppb	15:23:35
3	Ti 334.940†	5690.8	4933.4	4.9007 µg/L	4.9007 ppb	15:23:15
3	Tl 190.801†	46.5	164.6	22.211 µg/L	22.211 ppb	15:23:35
3	U 409.014†	434.0	727.6	45.909 µg/L	45.909 ppb	15:23:15
3	V 292.402†	1234.9	952.9	5.1933 µg/L	5.1933 ppb	15:23:15
3	Zn 213.857†	2110.8	1633.8	10.083 µg/L	10.083 ppb	15:23:35

## Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1719760.6	97.988 %	0.2824			0.29%
Sc RADIAL	149173.4	101 %	1.5			1.50%
Y 371.029	1043017.5	98.024 %	0.2288			0.23%
Ag 328.068†	1495.5	6.0554 µg/L	0.70156	6.0554 ppb	0.70156	11.59%
QC value within limits for Ag 328.068 Recovery = 121.11%						
Al 396.153Radial†	1057.7	217.52 µg/L	4.840	217.52 ppb	4.840	2.22%
QC value within limits for Al 396.153Radial Recovery = 108.76%						
As 188.979†	90.3	31.595 µg/L	1.1796	31.595 ppb	1.1796	3.73%
QC value within limits for As 188.979 Recovery = 105.32%						
B 249.677†	3072.5	50.078 µg/L	1.1640	50.078 ppb	1.1640	2.32%
QC value within limits for B 249.677 Recovery = 100.16%						
Ba 233.527†	1198.6	5.2239 µg/L	0.10050	5.2239 ppb	0.10050	1.92%
QC value within limits for Ba 233.527 Recovery = 104.48%						
Be 313.107†	16558.0	4.9825 µg/L	0.02447	4.9825 ppb	0.02447	0.49%
QC value within limits for Be 313.107 Recovery = 99.65%						
Ca 317.933Radial†	3348.8	201.49 µg/L	3.210	201.49 ppb	3.210	1.59%
QC value within limits for Ca 317.933Radial Recovery = 100.75%						
Cd 226.502†	734.1	5.0321 µg/L	0.00712	5.0321 ppb	0.00712	0.14%
QC value within limits for Cd 226.502 Recovery = 100.64%						
Co 228.616†	383.3	5.1838 µg/L	0.25781	5.1838 ppb	0.25781	4.97%

QC value within limits for Co 228.616 Recovery = 103.68%							
Cr 267.716†	589.0	4.9279 µg/L	0.12984	4.9279 ppb	0.12984	2.63%	
QC value within limits for Cr 267.716 Recovery = 98.56%							
Cu 324.752†	2463.6	10.444 µg/L	0.5014	10.444 ppb	0.5014	4.80%	
QC value within limits for Cu 324.752 Recovery = 104.44%							
Fe 238.204 Radial†	1523.8	102.54 µg/L	3.462	102.54 ppb	3.462	3.38%	
QC value within limits for Fe 238.204 Radial Recovery = 102.54%							
K 766.490 Radial†	460.2	189.22 µg/L	19.137	189.22 ppb	19.137	10.11%	
QC value within limits for K 766.490 Radial Recovery = 126.15%							
Mg 279.077 IEC†	766.8	314.72 µg/L	13.677	314.72 ppb	13.677	4.35%	
QC value within limits for Mg 279.077 IEC Recovery = 104.91%							
Mn 257.610†	7914.5	10.566 µg/L	0.0439	10.566 ppb	0.0439	0.42%	
QC value within limits for Mn 257.610 Recovery = 105.66%							
Mo 202.031†	301.9	9.6156 µg/L	0.54552	9.6156 ppb	0.54552	5.67%	
QC value within limits for Mo 202.031 Recovery = 96.16%							
Na 589.592 Radial†	1938.6	294.20 µg/L	15.859	294.20 ppb	15.859	5.39%	
QC value within limits for Na 589.592 Radial Recovery = 98.07%							
Ni 231.604†	411.8	5.1799 µg/L	0.08020	5.1799 ppb	0.08020	1.55%	
QC value within limits for Ni 231.604 Recovery = 103.60%							
P 214.914†	636.6	151.69 µg/L	0.216	151.69 ppb	0.216	0.14%	
QC value within limits for P 214.914 Recovery = 101.13%							
Pb 220.353†	151.8	9.3032 µg/L	0.65396	9.3032 ppb	0.65396	7.03%	
QC value within limits for Pb 220.353 Recovery = 93.03%							
S 181.975 Axial†	126.9	104.12 µg/L	4.828	104.12 ppb	4.828	4.64%	
QC value within limits for S 181.975 Axial Recovery = 104.12%							
Sb 206.836†	78.6	10.391 µg/L	0.4280	10.391 ppb	0.4280	4.12%	
QC value within limits for Sb 206.836 Recovery = 103.91%							
Se 196.026†	79.4	31.9 µg/L	2.75	31.9 ppb	2.75	8.64%	
QC value within limits for Se 196.026 Recovery = 106.24%							
SiO2†	2104.8	224.76 µg/L	2.527	224.76 ppb	2.527	1.12%	
QC value within limits for SiO2 Recovery = 105.52%							
Si 251.611†	6200.0	100.16 µg/L	0.919	100.16 ppb	0.919	0.92%	
QC value within limits for Si 251.611 Recovery = 100.16%							
Sn 189.927†	145.1	10.065 µg/L	0.2432	10.065 ppb	0.2432	2.42%	
QC value within limits for Sn 189.927 Recovery = 100.65%							
Sr 421.552†	2429.3	5.6025 µg/L	0.07899	5.6025 ppb	0.07899	1.41%	
QC value within limits for Sr 421.552 Recovery = 112.05%							
Ti 334.940†	4927.8	4.8968 µg/L	0.10034	4.8968 ppb	0.10034	2.05%	
QC value within limits for Ti 334.940 Recovery = 97.94%							
Tl 190.801†	166.8	22.508 µg/L	0.3103	22.508 ppb	0.3103	1.38%	
QC value within limits for Tl 190.801 Recovery = 112.54%							
U 409.014†	704.5	44.490 µg/L	4.2038	44.490 ppb	4.2038	9.45%	
QC value within limits for U 409.014 Recovery = 88.98%							
V 292.402†	1022.7	5.5648 µg/L	0.32420	5.5648 ppb	0.32420	5.83%	
QC value within limits for V 292.402 Recovery = 111.30%							
Zn 213.857†	1648.7	10.177 µg/L	0.0818	10.177 ppb	0.0818	0.80%	
QC value within limits for Zn 213.857 Recovery = 101.77%							
All analyte(s) passed QC.							

Sequence No.: 9

Sample ID: ICSEA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 103

Date Collected: 3/30/2010 15:23:44

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: ICSEA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Conc. Units	Sample Units	Analysis Time
1	Sc RADIAL	135491.3	135491.3	91.7	%			15:24:17
1	Al 396.153Radial†	2286947.2	2495271.1	514200	µg/L	514200	ppb	15:24:15
1	Ca 317.933Radial†	7501113.1	8183504.6	492380	µg/L	492380	ppb	15:24:15
1	Fe 238.204 Radial†	2650457.5	2891680.9	194580	µg/L	194580	ppb	15:24:15
1	K 766.490 Radial†	1541.2	368.7	-93.473	µg/L	-93.473	ppb	15:24:17
1	Mg 279.077 IEC†	1105922.5	1206464.7	494750	µg/L	494750	ppb	15:24:15
1	Na 589.592 Radial†	1485.9	414.6	62.815	µg/L	62.815	ppb	15:24:17
1	Sr 421.552†	1315.2	1656.6	-0.0324	µg/L	-0.0324	ppb	15:24:17
1	Sc 361.383	1550377.8	1550377.8	88.337	%			15:24:30
1	Y 371.029	923448.2	923448.2	86.787	%			15:24:30
1	Ag 328.068†	5848.7	3173.8	-0.9573	µg/L	-0.9573	ppb	15:24:30
1	As 188.979†	-95.4	-90.4	12.078	µg/L	12.078	ppb	15:24:50
1	B 249.677†	3031.8	201.7	3.2757	µg/L	3.2757	ppb	15:24:30
1	Ba 233.527†	439.1	659.2	0.3855	µg/L	0.3855	ppb	15:24:50
1	Be 313.107†	-852.7	-179.7	-0.0514	µg/L	-0.0514	ppb	15:24:30
1	Cd 226.502†	2265.2	2674.3	-2.0990	µg/L	-2.0990	ppb	15:24:50
1	Co 228.616†	89.3	273.6	-6.4479	µg/L	-6.4479	ppb	15:24:50
1	Cr 267.716†	184.7	30.5	0.9733	µg/L	0.9733	ppb	15:24:50
1	Cu 324.752†	-5458.4	-8968.0	3.9288	µg/L	3.9288	ppb	15:24:30
1	Mn 257.610†	15118.7	16939.3	2.5037	µg/L	2.5037	ppb	15:24:30
1	Mo 202.031†	-527.3	-562.2	-1.1409	µg/L	-1.1409	ppb	15:24:50
1	Ni 231.604†	156.5	255.0	3.2074	µg/L	3.2074	ppb	15:24:50
1	P 214.914†	186.0	205.6	31.164	µg/L	31.164	ppb	15:24:50
1	Pb 220.353†	-313.6	-451.9	-2.0684	µg/L	-2.0684	ppb	15:24:50
1	S 181.975 Axial†	145.2	76.7	62.685	µg/L	62.685	ppb	15:24:50
1	Sb 206.836†	119.3	56.9	1.3356	µg/L	1.3356	ppb	15:24:50
1	Se 196.026†	-140.9	-173.0	-1.74	µg/L	-1.74	ppb	15:24:50
1	SiO2†	1610.5	70.0	7.9672	µg/L	7.9672	ppb	15:24:50
1	Si 251.611†	429.3	-462.7	-7.2638	µg/L	-7.2638	ppb	15:24:50
1	Sn 189.927†	24.6	30.4	2.1790	µg/L	2.1790	ppb	15:24:50
1	Ti 334.940†	20051.3	21813.1	-5.6222	µg/L	-5.6222	ppb	15:24:30
1	Tl 190.801†	-176.0	-82.2	-10.613	µg/L	-10.613	ppb	15:24:50
1	U 409.014†	-134.3	131.7	-13.380	µg/L	-13.380	ppb	15:24:30
1	V 292.402†	4112.7	4345.8	2.3469	µg/L	2.3469	ppb	15:24:50
1	Zn 213.857†	4024.9	4031.8	8.3012	µg/L	8.3012	ppb	15:24:50
2	Sc RADIAL	134398.4	134398.4	90.9	%			15:24:22
2	Al 396.153Radial†	2251126.8	2476161.2	510270	µg/L	510270	ppb	15:24:20
2	Ca 317.933Radial†	7350398.9	8084279.8	486410	µg/L	486410	ppb	15:24:20
2	Fe 238.204 Radial†	2597180.3	2856594.8	192220	µg/L	192220	ppb	15:24:20
2	K 766.490 Radial†	1495.4	332.0	-106.03	µg/L	-106.03	ppb	15:24:22
2	Mg 279.077 IEC†	1081861.3	1189810.8	487920	µg/L	487920	ppb	15:24:20
2	Na 589.592 Radial†	1353.7	282.4	42.754	µg/L	42.754	ppb	15:24:22
2	Sr 421.552†	1363.4	1721.3	0.1636	µg/L	0.1636	ppb	15:24:22
2	Sc 361.383	1529302.7	1529302.7	87.136	%			15:24:53
2	Y 371.029	911641.3	911641.3	85.677	%			15:24:53
2	Ag 328.068†	6201.8	3670.3	1.1894	µg/L	1.1894	ppb	15:24:53
2	As 188.979†	-96.9	-93.6	10.426	µg/L	10.426	ppb	15:25:13
2	B 249.677†	3140.4	373.6	6.0801	µg/L	6.0801	ppb	15:24:53
2	Ba 233.527†	440.1	667.2	0.4501	µg/L	0.4501	ppb	15:25:13
2	Be 313.107†	-1112.6	-491.3	-0.1442	µg/L	-0.1442	ppb	15:24:53
2	Cd 226.502†	2279.3	2725.8	-1.4965	µg/L	-1.4965	ppb	15:25:13
2	Co 228.616†	67.3	249.7	-6.6477	µg/L	-6.6477	ppb	15:25:13
2	Cr 267.716†	204.6	56.2	1.1890	µg/L	1.1890	ppb	15:25:13
2	Cu 324.752†	-5392.7	-8977.8	3.3610	µg/L	3.3610	ppb	15:24:53
2	Mn 257.610†	15342.3	17431.7	3.4390	µg/L	3.4390	ppb	15:24:53
2	Mo 202.031†	-551.7	-598.4	-2.5108	µg/L	-2.5108	ppb	15:25:13
2	Ni 231.604†	154.5	255.2	3.2101	µg/L	3.2101	ppb	15:25:13
2	P 214.914†	160.5	179.1	25.620	µg/L	25.620	ppb	15:25:13
2	Pb 220.353†	-375.1	-527.4	-6.8630	µg/L	-6.8630	ppb	15:25:13

2	S 181.975 Axial†	153.7	88.7	72.553 µg/L	72.553 ppb	15:25:13
2	Sb 206.836†	118.2	57.5	1.4515 µg/L	1.4515 ppb	15:25:13
2	Se 196.026†	-176.7	-216.4	-19.9 µg/L	-19.9 ppb	15:25:13
2	SiO2†	1570.0	48.6	5.6934 µg/L	5.6934 ppb	15:25:13
2	Si 251.611†	436.0	-448.3	-7.0262 µg/L	-7.0262 ppb	15:25:13
2	Sn 189.927†	42.7	51.6	3.6464 µg/L	3.6464 ppb	15:25:13
2	Ti 334.940†	20530.0	22675.4	-4.3587 µg/L	-4.3587 ppb	15:24:53
2	Tl 190.801†	-173.6	-82.2	-10.599 µg/L	-10.599 ppb	15:25:13
2	U 409.014†	-99.0	170.2	-10.670 µg/L	-10.670 ppb	15:24:53
2	V 292.402†	4093.4	4387.9	2.8090 µg/L	2.8090 ppb	15:25:13
2	Zn 213.857†	4029.0	4099.2	8.9615 µg/L	8.9615 ppb	15:25:13
3	Sc RADIAL	135723.7	135723.7	91.8 %		15:24:26
3	Al 396.153Radial†	2273186.3	2476011.1	510240 µg/L	510240 ppb	15:24:24
3	Ca 317.933Radial†	7430044.5	8092086.0	486880 µg/L	486880 ppb	15:24:24
3	Fe 238.204 Radial†	2629467.1	2863867.6	192710 µg/L	192710 ppb	15:24:24
3	K 766.490 Radial†	1436.9	252.3	-139.06 µg/L	-139.06 ppb	15:24:26
3	Mg 279.077 IEC†	1095585.1	1193139.5	489280 µg/L	489280 ppb	15:24:24
3	Na 589.592 Radial†	1426.6	347.2	52.627 µg/L	52.627 ppb	15:24:26
3	Sr 421.552†	1369.3	1713.1	0.1409 µg/L	0.1409 ppb	15:24:26
3	Sc 361.383	1526692.0	1526692.0	86.987 %		15:25:16
3	Y 371.029	910201.6	910201.6	85.542 %		15:25:16
3	Ag 328.068†	6006.6	3458.1	0.3388 µg/L	0.3388 ppb	15:25:16
3	As 188.979†	-97.6	-94.5	10.205 µg/L	10.205 ppb	15:25:36
3	B 249.677†	3058.7	285.9	4.6488 µg/L	4.6488 ppb	15:25:16
3	Ba 233.527†	404.6	627.3	0.2707 µg/L	0.2707 ppb	15:25:36
3	Be 313.107†	-1039.4	-409.4	-0.1186 µg/L	-0.1186 ppb	15:25:16
3	Cd 226.502†	2276.1	2726.6	-1.5425 µg/L	-1.5425 ppb	15:25:36
3	Co 228.616†	93.3	279.7	-6.2669 µg/L	-6.2669 ppb	15:25:36
3	Cr 267.716†	191.5	41.6	1.0636 µg/L	1.0636 ppb	15:25:36
3	Cu 324.752†	-5604.7	-9232.1	2.4007 µg/L	2.4007 ppb	15:25:16
3	Mn 257.610†	15289.1	17400.7	3.3421 µg/L	3.3421 ppb	15:25:16
3	Mo 202.031†	-523.8	-567.4	-1.4815 µg/L	-1.4815 ppb	15:25:36
3	Ni 231.604†	202.7	310.9	3.9104 µg/L	3.9104 ppb	15:25:36
3	P 214.914†	185.5	208.2	32.197 µg/L	32.197 ppb	15:25:36
3	Pb 220.353†	-350.8	-500.2	-5.2143 µg/L	-5.2143 ppb	15:25:36
3	S 181.975 Axial†	149.8	84.5	69.091 µg/L	69.091 ppb	15:25:36
3	Sb 206.836†	125.1	65.7	2.5329 µg/L	2.5329 ppb	15:25:36
3	Se 196.026†	-153.6	-190.1	-9.22 µg/L	-9.22 ppb	15:25:36
3	SiO2†	1630.8	121.7	13.502 µg/L	13.502 ppb	15:25:36
3	Si 251.611†	470.7	-407.5	-6.3676 µg/L	-6.3676 ppb	15:25:36
3	Sn 189.927†	20.5	26.1	1.8853 µg/L	1.8853 ppb	15:25:36
3	Ti 334.940†	20741.8	22959.1	-4.1747 µg/L	-4.1747 ppb	15:25:16
3	Tl 190.801†	-132.1	-34.8	-4.2279 µg/L	-4.2279 ppb	15:25:36
3	U 409.014†	-51.7	224.3	-7.3537 µg/L	-7.3537 ppb	15:25:16
3	V 292.402†	4139.6	4449.0	3.0936 µg/L	3.0936 ppb	15:25:36
3	Zn 213.857†	4013.6	4089.5	8.8407 µg/L	8.8407 ppb	15:25:36

## Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1535457.5	87.487 %		0.7400			0.85%
Sc RADIAL	135204.5	91.5 %		0.48			0.52%
Y 371.029	915097.0	86.002 %		0.6831			0.79%
Ag 328.068†	3434.1	0.1903 µg/L		1.08102	0.1903 ppb	1.08102	567.98%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	2482481.1	511570 µg/L		2282.6	511570 ppb	2282.6	0.45%
QC value within limits for Al 396.153Radial Recovery = 102.31%							
As 188.979†	-92.8	10.903 µg/L		1.0235	10.903 ppb	1.0235	9.39%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	287.1	4.6682 µg/L		1.40228	4.6682 ppb	1.40228	30.04%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	651.2	0.3687 µg/L		0.09087	0.3687 ppb	0.09087	24.65%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-360.1	-0.1047 µg/L		0.04792	-0.1047 ppb	0.04792	45.74%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	8119956.8	488560 µg/L		3319.6	488560 ppb	3319.6	0.68%
QC value within limits for Ca 317.933Radial Recovery = 97.71%							
Cd 226.502†	2708.9	-1.7127 µg/L		0.33534	-1.7127 ppb	0.33534	19.58%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	267.6	-6.4542 µg/L		0.19046	-6.4542 ppb	0.19046	2.95%

QC value within limits for Co 228.616 Recovery = Not calculated									
Cr 267.716†	42.8	1.0753 µg/L	0.10833	1.0753 ppb	0.10833	10.07%			
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu 324.752†	-9059.3	3.2302 µg/L	0.77242	3.2302 ppb	0.77242	23.91%			
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe 238.204 Radial†	2870714.4	193170 µg/L	1246.1	193170 ppb	1246.1	0.65%			
QC value within limits for Fe 238.204 Radial Recovery = 96.58%									
K 766.490 Radial†	317.7	-112.85 µg/L	23.545	-112.85 ppb	23.545	20.86%			
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg 279.077 IEC†	1196471.7	490650 µg/L	3614.1	490650 ppb	3614.1	0.74%			
QC value within limits for Mg 279.077 IEC Recovery = 98.13%									
Mn 257.610†	17257.2	3.0950 µg/L	0.51432	3.0950 ppb	0.51432	16.62%			
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo 202.031†	-576.0	-1.7111 µg/L	0.71323	-1.7111 ppb	0.71323	41.68%			
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na 589.592 Radial†	348.0	52.732 µg/L	10.0310	52.732 ppb	10.0310	19.02%			
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni 231.604†	273.7	3.4426 µg/L	0.40513	3.4426 ppb	0.40513	11.77%			
QC value within limits for Ni 231.604 Recovery = Not calculated									
P 214.914†	197.6	29.660 µg/L	3.5371	29.660 ppb	3.5371	11.93%			
QC value within limits for P 214.914 Recovery = Not calculated									
Pb 220.353†	-493.2	-4.7152 µg/L	2.43592	-4.7152 ppb	2.43592	51.66%			
QC value within limits for Pb 220.353 Recovery = Not calculated									
S 181.975 Axial†	83.3	68.110 µg/L	5.0065	68.110 ppb	5.0065	7.35%			
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb 206.836†	60.1	1.7733 µg/L	0.66034	1.7733 ppb	0.66034	37.24%			
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se 196.026†	-193.2	-10.3 µg/L	9.13	-10.3 ppb	9.13	88.75%			
QC value within limits for Se 196.026 Recovery = Not calculated									
SiO2†	80.1	9.0540 µg/L	4.01594	9.0540 ppb	4.01594	44.36%			
QC value within limits for SiO2 Recovery = Not calculated									
Si 251.611†	-439.5	-6.8859 µg/L	0.46433	-6.8859 ppb	0.46433	6.74%			
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn 189.927†	36.0	2.5702 µg/L	0.94345	2.5702 ppb	0.94345	36.71%			
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr 421.552†	1697.0	0.0907 µg/L	0.10724	0.0907 ppb	0.10724	118.24%			
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti 334.940†	22482.5	-4.7185 µg/L	0.78801	-4.7185 ppb	0.78801	16.70%			
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl 190.801†	-66.4	-8.4799 µg/L	3.68229	-8.4799 ppb	3.68229	43.42%			
QC value within limits for Tl 190.801 Recovery = Not calculated									
U 409.014†	175.4	-10.468 µg/L	3.0181	-10.468 ppb	3.0181	28.83%			
QC value within limits for U 409.014 Recovery = Not calculated									
V 292.402†	4394.2	2.7499 µg/L	0.37684	2.7499 ppb	0.37684	13.70%			
QC value within limits for V 292.402 Recovery = Not calculated									
Zn 213.857†	4073.5	8.7011 µg/L	0.35156	8.7011 ppb	0.35156	4.04%			
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: 3/30/2010 15:25:44

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	128969.8	128969.8	87.2 %		15:26:16
1	Al 396.153Radial†	2268643.5	2600464.8	535860 µg/L	535860 ppb	15:26:14
1	Ca 317.933Radial†	7418203.8	8502317.5	511560 µg/L	511560 ppb	15:26:14
1	Fe 238.204 Radial†	2626582.9	3010544.4	202580 µg/L	202580 ppb	15:26:14
1	K 766.490 Radial†	13932.0	14656.5	5776.6 µg/L	5776.6 ppb	15:26:16
1	Mg 279.077 IEC†	1076571.1	1233836.2	505980 µg/L	505980 ppb	15:26:16
1	Na 589.592 Radial†	33219.3	36870.5	5593.3 µg/L	5593.3 ppb	15:26:16
1	Sr 421.552†	207277.5	237810.7	544.59 µg/L	544.59 ppb	15:26:16
1	Sc 361.383	1516196.2	1516196.2	86.389 %		15:26:44
1	Y 371.029	903728.7	903728.7	84.933 %		15:26:44
1	Ag 328.068†	63350.6	69884.6	270.36 µg/L	270.36 ppb	15:26:44
1	As 188.979†	1221.1	1431.2	550.90 µg/L	550.90 ppb	15:26:46
1	B 249.677†	30854.5	32485.4	528.04 µg/L	528.04 ppb	15:26:44
1	Ba 233.527†	100374.9	116351.4	504.51 µg/L	504.51 ppb	15:26:44
1	Be 313.107†	710674.5	823428.9	247.28 µg/L	247.28 ppb	15:26:44
1	Cd 226.502†	62827.3	72836.0	479.01 µg/L	479.01 ppb	15:26:44
1	Co 228.616†	29526.2	34350.5	454.56 µg/L	454.56 ppb	15:26:46
1	Cr 267.716†	51013.6	58872.4	496.64 µg/L	496.64 ppb	15:26:46
1	Cu 324.752†	105945.5	119848.6	548.90 µg/L	548.90 ppb	15:26:44
1	Mn 257.610†	328467.2	380042.5	487.37 µg/L	487.37 ppb	15:26:44
1	Mo 202.031†	13247.4	15369.3	506.32 µg/L	506.32 ppb	15:26:46
1	Ni 231.604†	32031.3	37155.8	467.34 µg/L	467.34 ppb	15:26:46
1	P 214.914†	9671.9	11190.7	2643.8 µg/L	2643.8 ppb	15:26:46
1	Pb 220.353†	6483.0	7407.4	481.68 µg/L	481.68 ppb	15:26:46
1	S 181.975 Axial†	3019.3	3407.3	2797.2 µg/L	2797.2 ppb	15:26:46
1	Sb 206.836†	3474.0	3943.3	512.08 µg/L	512.08 ppb	15:26:46
1	Se 196.026†	5295.0	6115.7	2520 µg/L	2520 ppb	15:26:46
1	SiO2†	92064.6	104816.5	11193 µg/L	11193 ppb	15:26:44
1	Si 251.611†	280816.9	324111.7	5236.4 µg/L	5236.4 ppb	15:26:44
1	Sn 189.927†	6181.1	7157.5	497.35 µg/L	497.35 ppb	15:26:46
1	Ti 334.940†	466691.3	539334.3	512.06 µg/L	512.06 ppb	15:26:44
1	Tl 190.801†	2873.7	3443.5	471.18 µg/L	471.18 ppb	15:26:46
1	U 409.014†	7010.7	8399.0	535.66 µg/L	535.66 ppb	15:26:44
1	V 292.402†	87819.1	101345.4	523.74 µg/L	523.74 ppb	15:26:44
1	Zn 213.857†	72585.4	83496.9	497.27 µg/L	497.27 ppb	15:26:44
2	Sc RADIAL	138750.1	138750.1	93.9 %		15:26:21
2	Al 396.153Radial†	2248527.6	2395732.2	493670 µg/L	493670 ppb	15:26:19
2	Ca 317.933Radial†	7355600.1	7836246.5	471490 µg/L	471490 ppb	15:26:19
2	Fe 238.204 Radial†	2604562.2	2774861.9	186720 µg/L	186720 ppb	15:26:19
2	K 766.490 Radial†	14271.2	13892.3	5480.7 µg/L	5480.7 ppb	15:26:21
2	Mg 279.077 IEC†	1111258.4	1183809.4	485470 µg/L	485470 ppb	15:26:21
2	Na 589.592 Radial†	34192.5	35223.4	5343.5 µg/L	5343.5 ppb	15:26:21
2	Sr 421.552†	211492.1	225553.7	516.63 µg/L	516.63 ppb	15:26:21
2	Sc 361.383	1518506.0	1518506.0	86.521 %		15:26:49
2	Y 371.029	904980.6	904980.6	85.051 %		15:26:49
2	Ag 328.068†	63288.3	69701.0	270.75 µg/L	270.75 ppb	15:26:49
2	As 188.979†	1123.1	1315.7	507.01 µg/L	507.01 ppb	15:26:51
2	B 249.677†	31121.0	32739.1	532.19 µg/L	532.19 ppb	15:26:49
2	Ba 233.527†	100793.3	116658.3	506.05 µg/L	506.05 ppb	15:26:49
2	Be 313.107†	712144.3	823876.4	247.41 µg/L	247.41 ppb	15:26:49
2	Cd 226.502†	63049.4	72982.0	481.68 µg/L	481.68 ppb	15:26:49
2	Co 228.616†	29214.5	33938.3	449.81 µg/L	449.81 ppb	15:26:51
2	Cr 267.716†	50659.7	58373.5	492.13 µg/L	492.13 ppb	15:26:51
2	Cu 324.752†	106123.6	119867.9	546.12 µg/L	546.12 ppb	15:26:49
2	Mn 257.610†	329580.6	380751.0	489.17 µg/L	489.17 ppb	15:26:49
2	Mo 202.031†	13269.6	15371.7	505.39 µg/L	505.39 ppb	15:26:51
2	Ni 231.604†	31669.3	36681.0	461.36 µg/L	461.36 ppb	15:26:51
2	P 214.914†	9695.4	11200.9	2647.7 µg/L	2647.7 ppb	15:26:51
2	Pb 220.353†	6408.2	7309.6	473.58 µg/L	473.58 ppb	15:26:51



2	S 181.975 Axial†	3032.1	3416.8	2805.0 µg/L	2805.0 ppb	15:26:51
2	Sb 206.836†	3497.1	3963.8	515.32 µg/L	515.32 ppb	15:26:51
2	Se 196.026†	5153.5	5942.8	2440 µg/L	2440 ppb	15:26:51
2	SiO2†	92148.0	104750.8	11186 µg/L	11186 ppb	15:26:49
2	Si 251.611†	282053.1	325046.0	5251.5 µg/L	5251.5 ppb	15:26:49
2	Sn 189.927†	6186.0	7152.3	496.98 µg/L	496.98 ppb	15:26:51
2	Ti 334.940†	465598.1	537249.0	510.59 µg/L	510.59 ppb	15:26:49
2	Tl 190.801†	2897.1	3465.6	474.15 µg/L	474.15 ppb	15:26:51
2	U 409.014†	7068.1	8453.0	540.87 µg/L	540.87 ppb	15:26:49
2	V 292.402†	87740.2	101099.6	524.10 µg/L	524.10 ppb	15:26:49
2	Zn 213.857†	72899.1	83731.7	500.12 µg/L	500.12 ppb	15:26:49
3	Sc RADIAL	136915.4	136915.4	92.6 %		15:26:25
3	Al 396.153Radial†	2257454.6	2437473.9	502270 µg/L	502270 ppb	15:26:23
3	Ca 317.933Radial†	7359855.8	7945860.1	478080 µg/L	478080 ppb	15:26:23
3	Fe 238.204 Radial†	2604669.3	2812163.8	189230 µg/L	189230 ppb	15:26:23
3	K 766.490 Radial†	14264.5	14088.8	5558.0 µg/L	5558.0 ppb	15:26:25
3	Mg 279.077 IEC†	1106854.3	1194920.1	490030 µg/L	490030 ppb	15:26:25
3	Na 589.592 Radial†	34167.4	35684.5	5413.4 µg/L	5413.4 ppb	15:26:25
3	Sr 421.552†	210799.8	227825.7	521.82 µg/L	521.82 ppb	15:26:25
3	Sc 361.383	1532637.0	1532637.0	87.326 %		15:26:54
3	Y 371.029	912980.1	912980.1	85.803 %		15:26:54
3	Ag 328.068†	63997.3	69838.5	271.10 µg/L	271.10 ppb	15:26:54
3	As 188.979†	1202.6	1394.9	535.14 µg/L	535.14 ppb	15:26:56
3	B 249.677†	30994.7	32262.8	524.43 µg/L	524.43 ppb	15:26:54
3	Ba 233.527†	101425.8	116308.4	504.49 µg/L	504.49 ppb	15:26:54
3	Be 313.107†	717134.4	822001.9	246.85 µg/L	246.85 ppb	15:26:54
3	Cd 226.502†	63386.1	72695.7	479.45 µg/L	479.45 ppb	15:26:54
3	Co 228.616†	29425.6	33868.8	448.74 µg/L	448.74 ppb	15:26:56
3	Cr 267.716†	50967.1	58185.7	490.58 µg/L	490.58 ppb	15:26:56
3	Cu 324.752†	106853.0	119572.3	545.36 µg/L	545.36 ppb	15:26:54
3	Mn 257.610†	331501.6	379438.8	487.23 µg/L	487.23 ppb	15:26:54
3	Mo 202.031†	13182.9	15131.0	497.92 µg/L	497.92 ppb	15:26:56
3	Ni 231.604†	31816.9	36512.6	459.25 µg/L	459.25 ppb	15:26:56
3	P 214.914†	9750.3	11160.5	2638.3 µg/L	2638.3 ppb	15:26:56
3	Pb 220.353†	6296.3	7113.2	461.99 µg/L	461.99 ppb	15:26:56
3	S 181.975 Axial†	3014.7	3364.5	2762.1 µg/L	2762.1 ppb	15:26:56
3	Sb 206.836†	3428.2	3847.7	499.92 µg/L	499.92 ppb	15:26:56
3	Se 196.026†	5199.2	5940.2	2440 µg/L	2440 ppb	15:26:56
3	SiO2†	93000.5	104745.0	11185 µg/L	11185 ppb	15:26:54
3	Si 251.611†	283786.9	324025.9	5235.1 µg/L	5235.1 ppb	15:26:54
3	Sn 189.927†	6228.6	7135.1	495.78 µg/L	495.78 ppb	15:26:56
3	Ti 334.940†	468402.8	535499.2	508.64 µg/L	508.64 ppb	15:26:54
3	Tl 190.801†	2875.8	3410.2	466.69 µg/L	466.69 ppb	15:26:56
3	U 409.014†	7143.9	8464.4	541.20 µg/L	541.20 ppb	15:26:54
3	V 292.402†	88322.9	100831.9	522.33 µg/L	522.33 ppb	15:26:54
3	Zn 213.857†	73408.9	83538.6	498.75 µg/L	498.75 ppb	15:26:54

## Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1522446.4	86.745 %	0.5071			0.58%
Sc RADIAL	134878.4	91.2 %	3.52			3.85%
Y 371.029	907229.8	85.262 %	0.4717			0.55%
Ag 328.068†	69808.1	270.74 µg/L	0.366	270.74 ppb	0.366	0.14%
QC value within limits for Ag 328.068 Recovery = 108.29%						
Al 396.153Radial†	2477890.3	510600 µg/L	22293.7	510600 ppb	22293.7	4.37%
QC value within limits for Al 396.153Radial Recovery = 102.12%						
As 188.979†	1380.6	531.02 µg/L	22.233	531.02 ppb	22.233	4.19%
QC value within limits for As 188.979 Recovery = 106.20%						
B 249.677†	32495.8	528.22 µg/L	3.885	528.22 ppb	3.885	0.74%
QC value within limits for B 249.677 Recovery = 105.64%						
Ba 233.527†	116439.4	505.02 µg/L	0.894	505.02 ppb	0.894	0.18%
QC value within limits for Ba 233.527 Recovery = 101.00%						
Be 313.107†	823102.4	247.18 µg/L	0.294	247.18 ppb	0.294	0.12%
QC value within limits for Be 313.107 Recovery = 98.87%						
Ca 317.933Radial†	8094808.1	487050 µg/L	21488.5	487050 ppb	21488.5	4.41%
QC value within limits for Ca 317.933Radial Recovery = 97.41%						
Cd 226.502†	72837.9	480.04 µg/L	1.431	480.04 ppb	1.431	0.30%
QC value within limits for Cd 226.502 Recovery = 96.01%						
Co 228.616†	34052.5	451.03 µg/L	3.097	451.03 ppb	3.097	0.69%

QC value within limits for Co 228.616	Recovery = 90.21%			
Cr 267.716†	58477.2	493.12 µg/L	3.147	493.12 ppb 3.147 0.64%
QC value within limits for Cr 267.716	Recovery = 98.62%			
Cu 324.752†	119762.9	546.80 µg/L	1.864	546.80 ppb 1.864 0.34%
QC value within limits for Cu 324.752	Recovery = 109.36%			
Fe 238.204 Radial†	2865856.7	192840 µg/L	8524.4	192840 ppb 8524.4 4.42%
QC value within limits for Fe 238.204 Radial	Recovery = 96.42%			
K 766.490 Radial†	14212.5	5605.1 µg/L	153.49	5605.1 ppb 153.49 2.74%
QC value within limits for K 766.490 Radial	Recovery = 112.10%			
Mg 279.077 IEC†	1204188.6	493830 µg/L	10769.0	493830 ppb 10769.0 2.18%
QC value within limits for Mg 279.077 IEC	Recovery = 98.77%			
Mn 257.610†	380077.4	487.92 µg/L	1.083	487.92 ppb 1.083 0.22%
QC value within limits for Mn 257.610	Recovery = 97.58%			
Mo 202.031†	15290.7	503.21 µg/L	4.607	503.21 ppb 4.607 0.92%
QC value within limits for Mo 202.031	Recovery = 100.64%			
Na 589.592 Radial†	35926.2	5450.1 µg/L	128.88	5450.1 ppb 128.88 2.36%
QC value within limits for Na 589.592 Radial	Recovery = 109.00%			
Ni 231.604†	36783.1	462.65 µg/L	4.196	462.65 ppb 4.196 0.91%
QC value within limits for Ni 231.604	Recovery = 92.53%			
P 214.914†	11184.0	2643.3 µg/L	4.70	2643.3 ppb 4.70 0.18%
QC value within limits for P 214.914	Recovery = 105.73%			
Pb 220.353†	7276.7	472.42 µg/L	9.899	472.42 ppb 9.899 2.10%
QC value within limits for Pb 220.353	Recovery = 94.48%			
S 181.975 Axial†	3396.2	2788.1 µg/L	22.86	2788.1 ppb 22.86 0.82%
QC value within limits for S 181.975 Axial	Recovery = 111.52%			
Sb 206.836†	3918.3	509.11 µg/L	8.121	509.11 ppb 8.121 1.60%
QC value within limits for Sb 206.836	Recovery = 101.82%			
Se 196.026†	5999.6	2470 µg/L	43.2	2470 ppb 43.2 1.75%
QC value within limits for Se 196.026	Recovery = 98.76%			
SiO2†	104770.8	11188 µg/L	4.2	11188 ppb 4.2 0.04%
QC value within limits for SiO2	Recovery = 104.61%			
Si 251.611†	324394.5	5241.0 µg/L	9.12	5241.0 ppb 9.12 0.17%
QC value within limits for Si 251.611	Recovery = 104.82%			
Sn 189.927†	7148.3	496.70 µg/L	0.817	496.70 ppb 0.817 0.16%
QC value within limits for Sn 189.927	Recovery = 99.34%			
Sr 421.552†	230396.7	527.68 µg/L	14.874	527.68 ppb 14.874 2.82%
QC value within limits for Sr 421.552	Recovery = 105.54%			
Ti 334.940†	537360.8	510.43 µg/L	1.713	510.43 ppb 1.713 0.34%
QC value within limits for Ti 334.940	Recovery = 102.09%			
Tl 190.801†	3439.8	470.67 µg/L	3.758	470.67 ppb 3.758 0.80%
QC value within limits for Tl 190.801	Recovery = 94.13%			
U 409.014†	8438.8	539.25 µg/L	3.108	539.25 ppb 3.108 0.58%
QC value within limits for U 409.014	Recovery = 107.85%			
V 292.402†	101092.3	523.39 µg/L	0.936	523.39 ppb 0.936 0.18%
QC value within limits for V 292.402	Recovery = 104.68%			
Zn 213.857†	83589.1	498.71 µg/L	1.427	498.71 ppb 1.427 0.29%
QC value within limits for Zn 213.857	Recovery = 99.74%			

All analyte(s) passed QC.

Sequence No.: 11

Sample ID: LRL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 105

Date Collected: 3/30/2010 15:27:03

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: LRL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	136437.1	136437.1	92.3 %		15:27:35
1	Al 396.153Radial†	2201698.9	2385608.2	491610 µg/L	491610 ppb	15:27:33
1	Ca 317.933Radial†	7214807.5	7816561.1	470300 µg/L	470300 ppb	15:27:33
1	Fe 238.204 Radial†	6118140.6	6628877.5	446050 µg/L	446050 ppb	15:27:33
1	K 766.490 Radial†	1829.8	669.7	-38.783 µg/L	-38.783 ppb	15:27:35
1	Mg 279.077 IEC†	1054744.4	1142649.0	468350 µg/L	468350 ppb	15:27:33
1	Na 589.592 Radial†	3004311.9	3253971.6	494110 µg/L	494110 ppb	15:27:33
1	Sr 421.552†	4865.0	5492.9	8.9901 µg/L	8.9901 ppb	15:27:35
1	Sc 361.383	1479324.6	1479324.6	84.288 %		15:27:49
1	Y 371.029	877883.5	877883.5	82.504 %		15:27:49
1	Ag 328.068†	2175.4	-866.2	2.3746 µg/L	2.3746 ppb	15:27:49
1	As 188.979†	-230.5	-255.8	10.757 µg/L	10.757 ppb	15:28:09
1	B 249.677†	4044.4	1567.9	25.520 µg/L	25.520 ppb	15:27:49
1	Ba 233.527†	614.2	890.8	-1.8194 µg/L	-1.8194 ppb	15:28:09
1	Be 313.107†	-14328.5	-16213.8	0.0899 µg/L	0.0899 ppb	15:27:49
1	Cd 226.502†	5667.7	6834.2	0.0189 µg/L	0.0189 ppb	15:27:49
1	Co 228.616†	648.7	942.0	-10.524 µg/L	-10.524 ppb	15:28:09
1	Cr 267.716†	423.8	324.2	-0.4000 µg/L	-0.4000 ppb	15:28:09
1	Cu 324.752†	-15616.5	-21316.4	1.3548 µg/L	1.3548 ppb	15:27:49
1	Mn 257.610†	16797.3	19752.8	6.6460 µg/L	6.6460 ppb	15:27:49
1	Mo 202.031†	-897.8	-1030.4	-6.5604 µg/L	-6.5604 ppb	15:27:49
1	Ni 231.604†	211.2	328.5	4.1319 µg/L	4.1319 ppb	15:28:09
1	P 214.914†	924.8	1092.2	67.436 µg/L	67.436 ppb	15:28:09
1	Pb 220.353†	-15.3	-115.1	-3.2134 µg/L	-3.2134 ppb	15:28:09
1	S 181.975 Axial†	174.3	119.1	97.381 µg/L	97.381 ppb	15:28:09
1	Sb 206.836†	113.6	56.7	-1.8998 µg/L	-1.8998 ppb	15:28:09
1	Se 196.026†	-352.5	-431.8	-2.26 µg/L	-2.26 ppb	15:28:09
1	SiO2†	1807.3	391.1	42.666 µg/L	42.666 ppb	15:28:09
1	Si 251.611†	-1781.3	-3062.0	-49.173 µg/L	-49.173 ppb	15:27:49
1	Sn 189.927†	87.2	106.0	7.4350 µg/L	7.4350 ppb	15:28:09
1	Ti 334.940†	24073.9	27675.7	-4.9000 µg/L	-4.9000 ppb	15:27:49
1	Tl 190.801†	-177.4	-93.4	-11.930 µg/L	-11.930 ppb	15:28:09
1	U 409.014†	220380.3	261743.9	16316 µg/L	16316 ppb	15:27:49
1	V 292.402†	7565.3	8665.6	9.6187 µg/L	9.6187 ppb	15:27:49
1	Zn 213.857†	7862.1	8803.1	11.198 µg/L	11.198 ppb	15:28:09
2	Sc RADIAL	133662.6	133662.6	90.4 %		15:27:40
2	Al 396.153Radial†	2208386.1	2442521.6	503340 µg/L	503340 ppb	15:27:38
2	Ca 317.933Radial†	7235360.6	8001557.4	481430 µg/L	481430 ppb	15:27:38
2	Fe 238.204 Radial†	6131145.7	6780861.1	456280 µg/L	456280 ppb	15:27:38
2	K 766.490 Radial†	1926.9	818.3	14.893 µg/L	14.893 ppb	15:27:40
2	Mg 279.077 IEC†	1057709.3	1169649.9	479420 µg/L	479420 ppb	15:27:38
2	Na 589.592 Radial†	3012824.9	3330955.4	505800 µg/L	505800 ppb	15:27:38
2	Sr 421.552†	4780.7	5509.1	8.9403 µg/L	8.9403 ppb	15:27:40
2	Sc 361.383	1491945.8	1491945.8	85.007 %		15:28:12
2	Y 371.029	884642.3	884642.3	83.140 %		15:28:12
2	Ag 328.068†	2189.1	-871.9	1.9264 µg/L	1.9264 ppb	15:28:12
2	As 188.979†	-239.5	-264.0	10.187 µg/L	10.187 ppb	15:28:32
2	B 249.677†	4005.3	1481.3	24.110 µg/L	24.110 ppb	15:28:12
2	Ba 233.527†	580.5	845.0	-2.1494 µg/L	-2.1494 ppb	15:28:32
2	Be 313.107†	-14594.1	-16382.5	0.0185 µg/L	0.0185 ppb	15:28:12
2	Cd 226.502†	5774.9	6903.5	-0.5813 µg/L	-0.5813 ppb	15:28:12
2	Co 228.616†	624.1	906.6	-11.537 µg/L	-11.537 ppb	15:28:32
2	Cr 267.716†	416.0	310.8	-0.2391 µg/L	-0.2391 ppb	15:28:32
2	Cu 324.752†	-15844.3	-21427.7	2.6175 µg/L	2.6175 ppb	15:28:12
2	Mn 257.610†	16681.9	19448.5	5.7732 µg/L	5.7732 ppb	15:28:12
2	Mo 202.031†	-885.2	-1006.6	-5.1979 µg/L	-5.1979 ppb	15:28:12
2	Ni 231.604†	194.7	306.9	3.8599 µg/L	3.8599 ppb	15:28:32
2	P 214.914†	903.2	1057.5	54.786 µg/L	54.786 ppb	15:28:32
2	Pb 220.353†	-9.7	-108.4	-2.3505 µg/L	-2.3505 ppb	15:28:32

2	S 181.975 Axial†	162.6	103.6	84.638 µg/L	84.638 ppb	15:28:32
2	Sb 206.836†	103.8	44.0	-3.7528 µg/L	-3.7528 ppb	15:28:32
2	Se 196.026†	-363.4	-441.0	-2.47 µg/L	-2.47 ppb	15:28:32
2	SiO2†	1787.0	349.0	38.154 µg/L	38.154 ppb	15:28:32
2	Si 251.611†	-1775.4	-3037.1	-48.774 µg/L	-48.774 ppb	15:28:12
2	Sn 189.927†	75.0	90.8	6.3853 µg/L	6.3853 ppb	15:28:32
2	Ti 334.940†	25851.7	29525.6	-3.6306 µg/L	-3.6306 ppb	15:28:12
2	Tl 190.801†	-199.4	-117.5	-15.139 µg/L	-15.139 ppb	15:28:32
2	U 409.014†	221329.4	260648.6	16245 µg/L	16245 ppb	15:28:12
2	V 292.402†	7749.2	8806.1	9.2452 µg/L	9.2452 ppb	15:28:12
2	Zn 213.857†	7893.7	8761.3	9.9501 µg/L	9.9501 ppb	15:28:32
3	Sc RADIAL	132134.1	132134.1	89.4 %		15:27:44
3	Al 396.153Radial†	2215858.4	2479134.6	510880 µg/L	510880 ppb	15:27:42
3	Ca 317.933Radial†	7272268.0	8135414.9	489490 µg/L	489490 ppb	15:27:42
3	Fe 238.204 Radial†	6164754.1	6896900.9	464080 µg/L	464080 ppb	15:27:42
3	K 766.490 Radial†	1800.0	701.0	-38.551 µg/L	-38.551 ppb	15:27:44
3	Mg 279.077 IEC†	1064515.1	1190796.0	488090 µg/L	488090 ppb	15:27:42
3	Na 589.592 Radial†	3025200.4	3383345.7	513750 µg/L	513750 ppb	15:27:42
3	Sr 421.552†	4781.2	5570.8	9.0197 µg/L	9.0197 ppb	15:27:44
3	Sc 361.383	1476102.9	1476102.9	84.105 %		15:28:34
3	Y 371.029	876472.2	876472.2	82.372 %		15:28:34
3	Ag 328.068†	1850.6	-1246.7	0.2207 µg/L	0.2207 ppb	15:28:34
3	As 188.979†	-230.9	-256.9	14.443 µg/L	14.443 ppb	15:28:55
3	B 249.677†	3692.4	1159.9	18.868 µg/L	18.868 ppb	15:28:34
3	Ba 233.527†	608.5	885.6	-2.0717 µg/L	-2.0717 ppb	15:28:55
3	Be 313.107†	-14186.1	-16081.6	0.1172 µg/L	0.1172 ppb	15:28:34
3	Cd 226.502†	5641.6	6817.9	-1.9905 µg/L	-1.9905 ppb	15:28:34
3	Co 228.616†	619.3	908.7	-11.915 µg/L	-11.915 ppb	15:28:55
3	Cr 267.716†	455.9	363.5	0.3478 µg/L	0.3478 ppb	15:28:55
3	Cu 324.752†	-15453.9	-21163.5	5.1254 µg/L	5.1254 ppb	15:28:34
3	Mn 257.610†	16497.8	19440.3	5.3978 µg/L	5.3978 ppb	15:28:34
3	Mo 202.031†	-841.4	-965.6	-3.4268 µg/L	-3.4268 ppb	15:28:34
3	Ni 231.604†	143.2	248.2	3.1217 µg/L	3.1217 ppb	15:28:55
3	P 214.914†	894.1	1058.1	51.284 µg/L	51.284 ppb	15:28:55
3	Pb 220.353†	-28.9	-131.3	-3.5614 µg/L	-3.5614 ppb	15:28:55
3	S 181.975 Axial†	161.0	103.7	84.779 µg/L	84.779 ppb	15:28:55
3	Sb 206.836†	120.2	64.8	-1.1601 µg/L	-1.1601 ppb	15:28:55
3	Se 196.026†	-381.7	-467.4	-10.3 µg/L	-10.3 ppb	15:28:55
3	SiO2†	1817.9	408.3	44.447 µg/L	44.447 ppb	15:28:55
3	Si 251.611†	-1958.8	-3277.6	-52.691 µg/L	-52.691 ppb	15:28:34
3	Sn 189.927†	86.5	105.4	7.3929 µg/L	7.3929 ppb	15:28:55
3	Ti 334.940†	24067.1	27730.1	-5.9375 µg/L	-5.9375 ppb	15:28:34
3	Tl 190.801†	-187.6	-105.9	-13.606 µg/L	-13.606 ppb	15:28:55
3	U 409.014†	219352.6	261092.7	16272 µg/L	16272 ppb	15:28:34
3	V 292.402†	7743.9	8897.6	8.9429 µg/L	8.9429 ppb	15:28:34
3	Zn 213.857†	7836.5	8793.0	9.3727 µg/L	9.3727 ppb	15:28:55

## Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1482457.8	84.467 %	%	0.4771			0.56%
Sc RADIAL	134077.9	90.7 %	%	1.48			1.63%
Y 371.029	879666.0	82.672 %	%	0.4104			0.50%
Ag 328.068†	-995.0	1.5072 µg/L	µg/L	1.13650	1.5072 ppb	1.13650	75.40%
Al 396.153Radial†	2435754.8	501940 µg/L	µg/L	9711.9	501940 ppb	9711.9	1.93%
QC value within limits for Al 396.153Radial Recovery = 100.39%							
As 188.979†	-258.9	11.796 µg/L	µg/L	2.3107	11.796 ppb	2.3107	19.59%
B 249.677†	1403.1	22.833 µg/L	µg/L	3.5049	22.833 ppb	3.5049	15.35%
Ba 233.527†	873.8	-2.0135 µg/L	µg/L	0.17249	-2.0135 ppb	0.17249	8.57%
Be 313.107†	-16226.0	0.0752 µg/L	µg/L	0.05096	0.0752 ppb	0.05096	67.76%
Ca 317.933Radial†	7984511.1	480410 µg/L	µg/L	9633.4	480410 ppb	9633.4	2.01%
QC value within limits for Ca 317.933Radial Recovery = 96.08%							
Cd 226.502†	6851.9	-0.8510 µg/L	µg/L	1.03148	-0.8510 ppb	1.03148	121.21%
Co 228.616†	919.1	-11.326 µg/L	µg/L	0.7193	-11.326 ppb	0.7193	6.35%
Cr 267.716†	332.8	-0.0971 µg/L	µg/L	0.39360	-0.0971 ppb	0.39360	405.29%
Cu 324.752†	-21302.5	3.0326 µg/L	µg/L	1.91926	3.0326 ppb	1.91926	63.29%
Fe 238.204 Radial†	6768879.8	455470 µg/L	µg/L	9044.5	455470 ppb	9044.5	1.99%
QC value within limits for Fe 238.204 Radial Recovery = 91.09%							
K 766.490 Radial†	729.7	-20.814 µg/L	µg/L	30.9231	-20.814 ppb	30.9231	148.57%
Mg 279.077 IEC†	1167698.3	478620 µg/L	µg/L	9892.0	478620 ppb	9892.0	2.07%

QC value within limits for Mg 279.077 IEC Recovery = 95.72%							
Mn 257.610†	19547.2	5.9390 µg/L	0.64043	5.9390 ppb	0.64043	10.78%	
Mo 202.031†	-1000.9	-5.0617 µg/L	1.57123	-5.0617 ppb	1.57123	31.04%	
Na 589.592 Radial†	3322757.6	504550 µg/L	9881.5	504550 ppb	9881.5	1.96%	
QC value within limits for Na 589.592 Radial Recovery = 100.91%							
Ni 231.604†	294.5	3.7045 µg/L	0.52272	3.7045 ppb	0.52272	14.11%	
P 214.914†	1069.3	57.835 µg/L	8.4971	57.835 ppb	8.4971	14.69%	
Pb 220.353†	-118.3	-3.0417 µg/L	0.62343	-3.0417 ppb	0.62343	20.50%	
S 181.975 Axial†	108.8	88.932 µg/L	7.3171	88.932 ppb	7.3171	8.23%	
Sb 206.836†	55.2	-2.2709 µg/L	1.33559	-2.2709 ppb	1.33559	58.81%	
Se 196.026†	-446.7	-5.01 µg/L	4.588	-5.01 ppb	4.588	91.56%	
SiO2†	382.8	41.756 µg/L	3.2436	41.756 ppb	3.2436	7.77%	
Si 251.611†	-3125.6	-50.213 µg/L	2.1553	-50.213 ppb	2.1553	4.29%	
Sn 189.927†	100.8	7.0710 µg/L	0.59428	7.0710 ppb	0.59428	8.40%	
Sr 421.552†	5524.3	8.9834 µg/L	0.04013	8.9834 ppb	0.04013	0.45%	
Ti 334.940†	28310.5	-4.8227 µg/L	1.15537	-4.8227 ppb	1.15537	23.96%	
Tl 190.801†	-105.6	-13.558 µg/L	1.6047	-13.558 ppb	1.6047	11.84%	
U 409.014†	261161.7	16278 µg/L	35.6	16278 ppb	35.6	0.22%	
QC value within limits for U 409.014 Recovery = 108.52%							
V 292.402†	8789.8	9.2689 µg/L	0.33852	9.2689 ppb	0.33852	3.65%	
Zn 213.857†	8785.8	10.174 µg/L	0.9330	10.174 ppb	0.9330	9.17%	
All analyte(s) passed QC.							

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 108

Date Collected: 3/30/2010 15:29:03

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	144237.0	144237.0	97.6 %		15:29:37
1	Al 396.153Radial†	2225.8	2344.2	31.470 µg/L	31.470 ppb	15:29:39
1	Ca 317.933Radial†	1195.6	527.4	31.732 µg/L	31.732 ppb	15:29:39
1	Fe 238.204 Radial†	-828.0	-989.3	-66.568 µg/L	-66.568 ppb	15:29:39
1	K 766.490 Radial†	705257.6	721512.5	296950 µg/L	296950 ppb	15:29:37
1	Mg 279.077 IEC†	-489.5	-670.5	-37.134 µg/L	-37.134 ppb	15:29:39
1	Na 589.592 Radial†	5220.5	4143.9	365.14 µg/L	365.14 ppb	15:29:39
1	Sr 421.552†	4186503.5	4291009.0	9898.7 µg/L	9898.7 ppb	15:29:35
1	Sc 361.383	1663697.1	1663697.1	94.793 %		15:30:01
1	Y 371.029	981892.5	981892.5	92.279 %		15:30:01
1	Ag 328.068†	-23773.7	-28526.5	5.2873 µg/L	5.2873 ppb	15:30:03
1	As 188.979†	27146.9	28655.7	10253 µg/L	10253 ppb	15:30:03
1	B 249.677†	294226.0	307156.3	4975.3 µg/L	4975.3 ppb	15:30:01
1	Ba 233.527†	3027478.9	3193928.4	13916 µg/L	13916 ppb	15:30:01
1	Be 313.107†	8944351.3	9436414.6	2831.8 µg/L	2831.8 ppb	15:29:57
1	Cd 226.502†	1332439.6	1405735.3	9656.4 µg/L	9656.4 ppb	15:30:01
1	Co 228.616†	659087.3	695460.8	9423.0 µg/L	9423.0 ppb	15:30:01
1	Cr 267.716†	2697213.0	2845181.7	23977 µg/L	23977 ppb	15:30:01
1	Cu 324.752†	4547393.6	4794374.9	20208 µg/L	20208 ppb	15:30:01
1	Mn 257.610†	6649756.4	7014825.5	9376.1 µg/L	9376.1 ppb	15:30:01
1	Mo 202.031†	289733.3	305681.9	9726.8 µg/L	9726.8 ppb	15:30:03
1	Ni 231.604†	734586.5	775012.3	9747.9 µg/L	9747.9 ppb	15:30:01
1	P 214.914†	60333.5	63642.4	14943 µg/L	14943 ppb	15:30:03
1	Pb 220.353†	364788.7	384728.2	23587 µg/L	23587 ppb	15:30:03
1	S 181.975 Axial†	59471.6	62650.4	51439 µg/L	51439 ppb	15:30:03
1	Sb 206.836†	72079.2	75960.2	9771.1 µg/L	9771.1 ppb	15:30:03
1	Se 196.026†	22882.5	24125.7	9660 µg/L	9660 ppb	15:30:03
1	SiO2†	894874.0	942272.7	100390 µg/L	100390 ppb	15:30:01
1	Si 251.611†	2754729.3	2905086.9	46828 µg/L	46828 ppb	15:30:01
1	Sn 189.927†	134561.0	141954.4	9861.0 µg/L	9861.0 ppb	15:30:03
1	Ti 334.940†	9355396.9	9868366.1	9878.7 µg/L	9878.7 ppb	15:29:57
1	Tl 190.801†	66599.1	70374.2	9608.7 µg/L	9608.7 ppb	15:30:03
1	U 409.014†	-8124.9	-8287.4	91.396 µg/L	91.396 ppb	15:30:03
1	V 292.402†	1792814.5	1890976.9	10234 µg/L	10234 ppb	15:30:01
1	Zn 213.857†	2209060.9	2329871.3	14375 µg/L	14375 ppb	15:30:01
2	Sc RADIAL	143986.9	143986.9	97.4 %		15:29:43
2	Al 396.153Radial†	2195.1	2316.5	19.993 µg/L	19.993 ppb	15:29:45
2	Ca 317.933Radial†	1141.8	474.3	28.538 µg/L	28.538 ppb	15:29:45
2	Fe 238.204 Radial†	-802.9	-965.1	-64.938 µg/L	-64.938 ppb	15:29:45
2	K 766.490 Radial†	707310.9	724875.9	298330 µg/L	298330 ppb	15:29:43
2	Mg 279.077 IEC†	-481.5	-663.1	-31.044 µg/L	-31.044 ppb	15:29:45
2	Na 589.592 Radial†	5011.9	3939.1	332.81 µg/L	332.81 ppb	15:29:45
2	Sr 421.552†	4170441.9	4281970.6	9877.9 µg/L	9877.9 ppb	15:29:41
2	Sc 361.383	1652411.6	1652411.6	94.150 %		15:30:11
2	Y 371.029	975307.9	975307.9	91.660 %		15:30:11
2	Ag 328.068†	-23549.1	-28459.3	5.3021 µg/L	5.3021 ppb	15:30:13
2	As 188.979†	27298.6	29012.4	10378 µg/L	10378 ppb	15:30:13
2	B 249.677†	291433.3	306310.0	4961.5 µg/L	4961.5 ppb	15:30:11
2	Ba 233.527†	2999547.4	3186074.1	13882 µg/L	13882 ppb	15:30:11
2	Be 313.107†	9002117.0	9562212.2	2869.5 µg/L	2869.5 ppb	15:30:07
2	Cd 226.502†	1319189.5	1401262.0	9625.7 µg/L	9625.7 ppb	15:30:11
2	Co 228.616†	653056.4	693803.8	9400.6 µg/L	9400.6 ppb	15:30:11
2	Cr 267.716†	2673331.9	2839249.8	23927 µg/L	23927 ppb	15:30:11
2	Cu 324.752†	4508860.7	4786211.3	20173 µg/L	20173 ppb	15:30:11
2	Mn 257.610†	6592131.1	7001530.5	9358.4 µg/L	9358.4 ppb	15:30:11
2	Mo 202.031†	291456.6	309599.8	9851.4 µg/L	9851.4 ppb	15:30:13
2	Ni 231.604†	727344.3	772612.7	9717.7 µg/L	9717.7 ppb	15:30:11
2	P 214.914†	60767.2	64537.7	15157 µg/L	15157 ppb	15:30:13
2	Pb 220.353†	367598.0	390340.2	23931 µg/L	23931 ppb	15:30:13

2	S 181.975 Axial†	60050.6	63693.9	52295 µg/L	52295 ppb	15:30:13
2	Sb 206.836†	72605.5	77038.4	9915.2 µg/L	9915.2 ppb	15:30:13
2	Se 196.026†	23187.2	24614.2	9850 µg/L	9850 ppb	15:30:13
2	SiO2†	886511.8	939838.4	100120 µg/L	100120 ppb	15:30:11
2	Si 251.611†	2730380.4	2899072.8	46728 µg/L	46728 ppb	15:30:11
2	Sn 189.927†	135964.5	144414.7	10032 µg/L	10032 ppb	15:30:13
2	Ti 334.940†	9415705.5	9999826.1	10010 µg/L	10010 ppb	15:30:07
2	Tl 190.801†	67195.6	71487.6	9759.6 µg/L	9759.6 ppb	15:30:13
2	U 409.014†	-7767.0	-7965.8	110.12 µg/L	110.12 ppb	15:30:13
2	V 292.402†	1776456.8	1886519.8	10211 µg/L	10211 ppb	15:30:11
2	Zn 213.857†	2189903.3	2325439.4	14348 µg/L	14348 ppb	15:30:11
3	Sc RADIAL	144822.6	144822.6	98.0 %		15:29:50
3	Al 396.153Radial†	2092.1	2198.4	-0.8903 µg/L	-0.8903 ppb	15:29:52
3	Ca 317.933Radial†	1203.7	530.7	31.929 µg/L	31.929 ppb	15:29:52
3	Fe 238.204 Radial†	-857.2	-1015.7	-68.345 µg/L	-68.345 ppb	15:29:52
3	K 766.490 Radial†	711651.3	725116.0	298430 µg/L	298430 ppb	15:29:50
3	Mg 279.077 IEC†	-463.8	-642.2	-24.276 µg/L	-24.276 ppb	15:29:52
3	Na 589.592 Radial†	4742.0	3633.8	286.38 µg/L	286.38 ppb	15:29:52
3	Sr 421.552†	4172633.3	4259499.7	9826.0 µg/L	9826.0 ppb	15:29:48
3	Sc 361.383	1657044.9	1657044.9	94.414 %		15:30:20
3	Y 371.029	978361.9	978361.9	91.947 %		15:30:20
3	Ag 328.068†	-23261.7	-28085.0	6.8804 µg/L	6.8804 ppb	15:30:22
3	As 188.979†	26976.3	28590.0	10231 µg/L	10231 ppb	15:30:22
3	B 249.677†	292997.5	307101.2	4974.4 µg/L	4974.4 ppb	15:30:20
3	Ba 233.527†	3012217.2	3190585.1	13902 µg/L	13902 ppb	15:30:20
3	Be 313.107†	8910545.1	9438487.5	2832.4 µg/L	2832.4 ppb	15:30:17
3	Cd 226.502†	1326786.2	1405390.3	9654.0 µg/L	9654.0 ppb	15:30:20
3	Co 228.616†	655684.4	694647.7	9412.0 µg/L	9412.0 ppb	15:30:20
3	Cr 267.716†	2685859.8	2844579.4	23972 µg/L	23972 ppb	15:30:20
3	Cu 324.752†	4522887.5	4787677.1	20179 µg/L	20179 ppb	15:30:20
3	Mn 257.610†	6615553.1	7006760.3	9365.4 µg/L	9365.4 ppb	15:30:20
3	Mo 202.031†	290065.6	307260.9	9777.0 µg/L	9777.0 ppb	15:30:22
3	Ni 231.604†	731039.6	774366.6	9739.8 µg/L	9739.8 ppb	15:30:20
3	P 214.914†	60515.4	64090.6	15051 µg/L	15051 ppb	15:30:22
3	Pb 220.353†	365639.3	387174.0	23737 µg/L	23737 ppb	15:30:22
3	S 181.975 Axial†	59594.5	63032.5	51752 µg/L	51752 ppb	15:30:22
3	Sb 206.836†	72374.1	76577.8	9853.0 µg/L	9853.0 ppb	15:30:22
3	Se 196.026†	23069.3	24420.5	9770 µg/L	9770 ppb	15:30:22
3	SiO2†	891398.7	942381.5	100400 µg/L	100400 ppb	15:30:20
3	Si 251.611†	2745197.8	2906657.8	46852 µg/L	46852 ppb	15:30:20
3	Sn 189.927†	135116.5	143112.7	9941.3 µg/L	9941.3 ppb	15:30:22
3	Ti 334.940†	9334301.8	9885642.8	9896.0 µg/L	9896.0 ppb	15:30:17
3	Tl 190.801†	66740.2	70805.7	9666.8 µg/L	9666.8 ppb	15:30:22
3	U 409.014†	-8268.5	-8473.9	78.920 µg/L	78.920 ppb	15:30:22
3	V 292.402†	1783384.1	1888581.0	10222 µg/L	10222 ppb	15:30:20
3	Zn 213.857†	2199491.6	2329091.1	14370 µg/L	14370 ppb	15:30:20

## Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1657717.9	94.453 %	0.3232			0.34%
Sc RADIAL	144348.8	97.6 %	0.29			0.30%
Y 371.029	978520.8	91.962 %	0.3097			0.34%
Ag 328.068†	-28357.0	5.8233 µg/L	0.91551	5.8233 ppb	0.91551	15.72%
Al 396.153Radial†	2286.4	16.858 µg/L	16.4064	16.858 ppb	16.4064	97.32%
As 188.979†	28752.7	10287 µg/L	79.2	10287 ppb	79.2	0.77%
QC value within limits for As 188.979 Recovery = 102.87%						
B 249.677†	306855.8	4970.4 µg/L	7.69	4970.4 ppb	7.69	0.15%
QC value within limits for B 249.677 Recovery = 99.41%						
Ba 233.527†	3190195.9	13900 µg/L	17.1	13900 ppb	17.1	0.12%
QC value within limits for Ba 233.527 Recovery = 92.67%						
Be 313.107†	9479038.1	2844.6 µg/L	21.62	2844.6 ppb	21.62	0.76%
QC value within limits for Be 313.107 Recovery = 94.82%						
Ca 317.933Radial†	510.8	30.733 µg/L	1.9038	30.733 ppb	1.9038	6.19%
Cd 226.502†	1404129.2	9645.4 µg/L	17.10	9645.4 ppb	17.10	0.18%
QC value within limits for Cd 226.502 Recovery = 96.45%						
Co 228.616†	694637.5	9411.9 µg/L	11.23	9411.9 ppb	11.23	0.12%
QC value within limits for Co 228.616 Recovery = 94.12%						
Cr 267.716†	2843003.6	23958 µg/L	27.5	23958 ppb	27.5	0.11%
QC value within limits for Cr 267.716 Recovery = 95.83%						

Cu 324.752†	4789421.1	20187 µg/L	18.3	20187 ppb	18.3	0.09%
QC value within limits for Cu 324.752 Recovery = 100.93%						
Fe 238.204 Radial†	-990.0	-66.617 µg/L	1.7042	-66.617 ppb	1.7042	2.56%
K 766.490 Radial†	723834.8	297900 µg/L	829.2	297900 ppb	829.2	0.28%
QC value within limits for K 766.490 Radial Recovery = 99.30%						
Mg 279.077 IEC†	-658.6	-30.818 µg/L	6.4320	-30.818 ppb	6.4320	20.87%
Mn 257.610†	7007705.4	9366.6 µg/L	8.95	9366.6 ppb	8.95	0.10%
QC value within limits for Mn 257.610 Recovery = 93.67%						
Mo 202.031†	307514.2	9785.1 µg/L	62.70	9785.1 ppb	62.70	0.64%
QC value within limits for Mo 202.031 Recovery = 97.85%						
Na 589.592 Radial†	3905.6	328.11 µg/L	39.594	328.11 ppb	39.594	12.07%
Ni 231.604†	773997.2	9735.1 µg/L	15.62	9735.1 ppb	15.62	0.16%
QC value within limits for Ni 231.604 Recovery = 97.35%						
P 214.914†	64090.2	15051 µg/L	107.1	15051 ppb	107.1	0.71%
QC value within limits for P 214.914 Recovery = 100.34%						
Pb 220.353†	387414.1	23751 µg/L	172.5	23751 ppb	172.5	0.73%
QC value within limits for Pb 220.353 Recovery = 95.01%						
S 181.975 Axial†	63125.6	51829 µg/L	433.3	51829 ppb	433.3	0.84%
QC value within limits for S 181.975 Axial Recovery = 103.66%						
Sb 206.836†	76525.5	9846.4 µg/L	72.30	9846.4 ppb	72.30	0.73%
QC value within limits for Sb 206.836 Recovery = 98.46%						
Se 196.026†	24386.8	9760 µg/L	98.5	9760 ppb	98.5	1.01%
QC value within limits for Se 196.026 Recovery = 97.61%						
SiO2†	941497.5	100300 µg/L	156.5	100300 ppb	156.5	0.16%
QC value within limits for SiO2 Recovery = 93.74%						
Si 251.611†	2903605.8	46802 µg/L	65.9	46802 ppb	65.9	0.14%
QC value within limits for Si 251.611 Recovery = 93.60%						
Sn 189.927†	143160.6	9944.7 µg/L	85.44	9944.7 ppb	85.44	0.86%
QC value within limits for Sn 189.927 Recovery = 99.45%						
Sr 421.552†	4277493.1	9867.5 µg/L	37.43	9867.5 ppb	37.43	0.38%
QC value within limits for Sr 421.552 Recovery = 98.68%						
Ti 334.940†	9917945.0	9928.3 µg/L	71.57	9928.3 ppb	71.57	0.72%
QC value within limits for Ti 334.940 Recovery = 99.28%						
Tl 190.801†	70889.2	9678.4 µg/L	76.09	9678.4 ppb	76.09	0.79%
QC value within limits for Tl 190.801 Recovery = 96.78%						
U 409.014†	-8242.4	93.479 µg/L	15.7042	93.479 ppb	15.7042	16.80%
V 292.402†	1888692.6	10222 µg/L	11.4	10222 ppb	11.4	0.11%
QC value within limits for V 292.402 Recovery = 102.22%						
Zn 213.857†	2328133.9	14364 µg/L	14.5	14364 ppb	14.5	0.10%
QC value within limits for Zn 213.857 Recovery = 95.76%						
All analyte(s) passed QC.						



=====  
Analysis Begun

Start Time: 3/30/2010 15:38:03

Plasma On Time: 3/29/2010 18:07:58

Logged In Analyst: optima4

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C0022701Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\033010.sif

Batch ID:

Results Data Set: 033010B

Results Library: C:\pe\optima4\Results\Results.mdb

=====  
Method Loaded

Method Name: Gen Eng fast\_new Si

Method Last Saved: 3/30/2010 14:42:21

IEC File: 031810.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	No
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	Yes
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
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
SiO2	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

=====  
Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/30/2010 15:38:05

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	151504.5	151504.5	102 %		15:38:38
1	Al 396.153Radial†	25127.4	24580.8	5041.9 µg/L	5041.9 ppb	15:38:38
1	Ca 317.933Radial†	86568.9	83771.3	5040.3 µg/L	5040.3 ppb	15:38:38
1	Fe 238.204 Radial†	76327.0	74335.0	5001.9 µg/L	5001.9 ppb	15:38:38





QC value within limits for Na 589.592 Radial Recovery = 100.94%

Ni 231.604†	40398.8	508.13 µg/L	1.771	508.13 ppb	1.771	0.35%
QC value within limits for Ni 231.604 Recovery = 101.63%						
P 214.914†	10646.2	2530.7 µg/L	9.83	2530.7 ppb	9.83	0.39%
QC value within limits for P 214.914 Recovery = 101.23%						
Pb 220.353†	8346.3	512.65 µg/L	1.641	512.65 ppb	1.641	0.32%
QC value within limits for Pb 220.353 Recovery = 102.53%						
S 181.975 Axial†	1238.1	1019.2 µg/L	3.61	1019.2 ppb	3.61	0.35%
QC value within limits for S 181.975 Axial Recovery = 101.92%						
Sb 206.836†	3861.9	507.58 µg/L	2.318	507.58 ppb	2.318	0.46%
QC value within limits for Sb 206.836 Recovery = 101.52%						
Se 196.026†	1259.6	506 µg/L	2.6	506 ppb	2.6	0.51%
QC value within limits for Se 196.026 Recovery = 101.28%						
SiO2†	50436.4	5374.2 µg/L	17.15	5374.2 ppb	17.15	0.32%
QC value within limits for SiO2 Recovery = 100.50%						
Si 251.611†	156144.3	2517.3 µg/L	8.23	2517.3 ppb	8.23	0.33%
QC value within limits for Si 251.611 Recovery = 100.69%						
Sn 189.927†	7338.6	509.76 µg/L	0.493	509.76 ppb	0.493	0.10%
QC value within limits for Sn 189.927 Recovery = 101.95%						
Sr 421.552†	222062.7	512.23 µg/L	3.874	512.23 ppb	3.874	0.76%
QC value within limits for Sr 421.552 Recovery = 102.45%						
Ti 334.940†	503618.5	503.89 µg/L	1.418	503.89 ppb	1.418	0.28%
QC value within limits for Ti 334.940 Recovery = 100.78%						
Tl 190.801†	3768.3	513.99 µg/L	1.448	513.99 ppb	1.448	0.28%
QC value within limits for Tl 190.801 Recovery = 102.80%						
U 409.014†	7597.0	506.47 µg/L	8.551	506.47 ppb	8.551	1.69%
QC value within limits for U 409.014 Recovery = 101.29%						
V 292.402†	94435.5	508.11 µg/L	2.233	508.11 ppb	2.233	0.44%
QC value within limits for V 292.402 Recovery = 101.62%						
Zn 213.857†	81944.8	504.24 µg/L	2.372	504.24 ppb	2.372	0.47%
QC value within limits for Zn 213.857 Recovery = 100.85%						

All analyte(s) passed QC.

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/30/2010 15:40:19

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	152271.6	152271.6	103 %		15:40:49
1	Al 396.153Radial†	-38.2	25.8	5.3134 µg/L	5.3134 ppb	15:41:09
1	Ca 317.933Radial†	593.7	-121.6	-7.3179 µg/L	-7.3179 ppb	15:41:09
1	Fe 238.204 Radial†	146.8	1.9	0.1250 µg/L	0.1250 ppb	15:41:09
1	K 766.490 Radial†	1582.5	223.6	91.992 µg/L	91.992 ppb	15:40:49
1	Mg 279.077 IEC†	171.9	-1.9	-0.7624 µg/L	-0.7624 ppb	15:41:09
1	Na 589.592 Radial†	1948.7	685.2	103.97 µg/L	103.97 ppb	15:40:49
1	Sr 421.552†	-262.3	-33.0	-0.0760 µg/L	-0.0760 ppb	15:40:49
1	Sc 361.383	1761746.1	1761746.1	100.38 %		15:42:11
1	Y 371.029	1068118.8	1068118.8	100.38 %		15:42:11
1	Ag 328.068†	3245.5	-213.9	-0.8439 µg/L	-0.8439 ppb	15:42:13
1	As 188.979†	-13.3	4.5	1.5509 µg/L	1.5509 ppb	15:42:33
1	B 249.677†	3249.5	6.9	0.1116 µg/L	0.1116 ppb	15:42:33
1	Ba 233.527†	-156.2	6.5	0.0280 µg/L	0.0280 ppb	15:42:33
1	Be 313.107†	-658.9	129.2	0.0424 µg/L	0.0424 ppb	15:42:13
1	Cd 226.502†	-73.5	36.8	0.2528 µg/L	0.2528 ppb	15:42:33
1	Co 228.616†	-169.4	3.7	0.0497 µg/L	0.0497 ppb	15:42:33
1	Cr 267.716†	146.3	-32.8	-0.2859 µg/L	-0.2859 ppb	15:42:33
1	Cu 324.752†	2940.0	139.9	0.5993 µg/L	0.5993 ppb	15:42:13
1	Mn 257.610†	146.6	-29.6	-0.0395 µg/L	-0.0395 ppb	15:42:33
1	Mo 202.031†	-31.7	3.2	0.1017 µg/L	0.1017 ppb	15:42:33
1	Ni 231.604†	-80.5	-2.3	-0.0290 µg/L	-0.0290 ppb	15:42:33
1	P 214.914†	10.9	5.9	1.4022 µg/L	1.4022 ppb	15:42:33
1	Pb 220.353†	91.1	-6.2	-0.3899 µg/L	-0.3899 ppb	15:42:33
1	S 181.975 Axial†	91.1	3.1	2.5246 µg/L	2.5246 ppb	15:42:33
1	Sb 206.836†	82.7	4.4	0.5766 µg/L	0.5766 ppb	15:42:33
1	Se 196.026†	16.5	2.9	1.16 µg/L	1.16 ppb	15:42:33
1	SiO2†	1686.5	-73.0	-7.8262 µg/L	-7.8262 ppb	15:42:33
1	Si 251.611†	796.3	-155.3	-2.5203 µg/L	-2.5203 ppb	15:42:33
1	Sn 189.927†	8.2	10.7	0.7386 µg/L	0.7386 ppb	15:42:33
1	Ti 334.940†	880.2	-8.7	-0.0137 µg/L	-0.0137 ppb	15:42:13
1	Tl 190.801†	-115.7	1.9	0.2434 µg/L	0.2434 ppb	15:42:33
1	U 409.014†	-94.2	189.9	11.851 µg/L	11.851 ppb	15:42:13
1	V 292.402†	174.7	-135.8	-0.7133 µg/L	-0.7133 ppb	15:42:13
1	Zn 213.857†	549.9	23.3	0.1441 µg/L	0.1441 ppb	15:42:33
2	Sc RADIAL	150618.8	150618.8	102 %		15:41:11
2	Al 396.153Radial†	-53.4	10.5	2.1418 µg/L	2.1418 ppb	15:41:31
2	Ca 317.933Radial†	581.3	-127.4	-7.6675 µg/L	-7.6675 ppb	15:41:31
2	Fe 238.204 Radial†	171.2	27.3	1.8369 µg/L	1.8369 ppb	15:41:31
2	K 766.490 Radial†	1606.1	263.5	108.45 µg/L	108.45 ppb	15:41:11
2	Mg 279.077 IEC†	179.0	6.9	2.8302 µg/L	2.8302 ppb	15:41:31
2	Na 589.592 Radial†	1952.8	710.0	107.71 µg/L	107.71 ppb	15:41:11
2	Sr 421.552†	-168.0	56.8	0.1310 µg/L	0.1310 ppb	15:41:11
2	Sc 361.383	1744841.8	1744841.8	99.417 %		15:42:35
2	Y 371.029	1059308.4	1059308.4	99.555 %		15:42:35
2	Ag 328.068†	3616.7	190.8	0.7580 µg/L	0.7580 ppb	15:42:37
2	As 188.979†	-24.5	-7.0	-2.4263 µg/L	-2.4263 ppb	15:42:57
2	B 249.677†	3270.5	59.3	0.9680 µg/L	0.9680 ppb	15:42:57
2	Ba 233.527†	-154.1	7.2	0.0313 µg/L	0.0313 ppb	15:42:57
2	Be 313.107†	-485.0	297.7	0.0894 µg/L	0.0894 ppb	15:42:37
2	Cd 226.502†	-103.0	6.4	0.0440 µg/L	0.0440 ppb	15:42:57
2	Co 228.616†	-197.0	-25.7	-0.3482 µg/L	-0.3482 ppb	15:42:57
2	Cr 267.716†	149.9	-27.8	-0.2344 µg/L	-0.2344 ppb	15:42:57
2	Cu 324.752†	2688.9	-84.2	-0.3548 µg/L	-0.3548 ppb	15:42:37
2	Mn 257.610†	185.8	11.3	0.0150 µg/L	0.0150 ppb	15:42:57
2	Mo 202.031†	-25.5	9.1	0.2905 µg/L	0.2905 ppb	15:42:57
2	Ni 231.604†	-56.6	20.9	0.2635 µg/L	0.2635 ppb	15:42:57
2	P 214.914†	13.3	8.4	2.0004 µg/L	2.0004 ppb	15:42:57
2	Pb 220.353†	110.4	14.1	0.8625 µg/L	0.8625 ppb	15:42:57

2	S 181.975 Axial†	98.4	11.2	9.2093 µg/L	9.2093 ppb	15:42:57
2	Sb 206.836†	81.8	4.2	0.5540 µg/L	0.5540 ppb	15:42:57
2	Se 196.026†	12.4	-1.1	-0.426 µg/L	-0.426 ppb	15:42:57
2	SiO2†	1708.7	-34.4	-3.6920 µg/L	-3.6920 ppb	15:42:57
2	Si 251.611†	793.5	-150.5	-2.4395 µg/L	-2.4395 ppb	15:42:57
2	Sn 189.927†	-3.9	-1.4	-0.0980 µg/L	-0.0980 ppb	15:42:57
2	Ti 334.940†	736.5	-144.8	-0.1454 µg/L	-0.1454 ppb	15:42:37
2	Tl 190.801†	-120.7	-4.3	-0.5836 µg/L	-0.5836 ppb	15:42:57
2	U 409.014†	-281.2	0.9	0.0544 µg/L	0.0544 ppb	15:42:37
2	V 292.402†	298.4	-9.7	-0.0495 µg/L	-0.0495 ppb	15:42:37
2	Zn 213.857†	548.3	27.0	0.1659 µg/L	0.1659 ppb	15:42:57
3	Sc RADIAL	150276.3	150276.3	102 %		15:41:33
3	Al 396.153Radial†	-42.9	20.6	4.2398 µg/L	4.2398 ppb	15:41:53
3	Ca 317.933Radial†	575.7	-131.7	-7.9223 µg/L	-7.9223 ppb	15:41:53
3	Fe 238.204 Radial†	159.4	16.1	1.0819 µg/L	1.0819 ppb	15:41:53
3	K 766.490 Radial†	1605.7	266.8	109.77 µg/L	109.77 ppb	15:41:33
3	Mg 279.077 IEC†	158.6	-12.8	-5.2449 µg/L	-5.2449 ppb	15:41:53
3	Na 589.592 Radial†	1794.4	558.5	84.715 µg/L	84.715 ppb	15:41:33
3	Sr 421.552†	-256.8	-31.0	-0.0714 µg/L	-0.0714 ppb	15:41:33
3	Sc 361.383	1748415.8	1748415.8	99.620 %		15:42:59
3	Y 371.029	1061132.7	1061132.7	99.726 %		15:42:59
3	Ag 328.068†	3479.1	45.3	0.1721 µg/L	0.1721 ppb	15:43:01
3	As 188.979†	-15.1	2.5	0.8709 µg/L	0.8709 ppb	15:43:21
3	B 249.677†	3242.7	24.7	0.4031 µg/L	0.4031 ppb	15:43:21
3	Ba 233.527†	-211.2	-49.8	-0.2173 µg/L	-0.2173 ppb	15:43:21
3	Be 313.107†	-621.8	161.4	0.0478 µg/L	0.0478 ppb	15:43:01
3	Cd 226.502†	-106.4	3.2	0.0217 µg/L	0.0217 ppb	15:43:21
3	Co 228.616†	-168.4	3.4	0.0451 µg/L	0.0451 ppb	15:43:21
3	Cr 267.716†	182.8	4.9	0.0428 µg/L	0.0428 ppb	15:43:21
3	Cu 324.752†	2822.4	44.2	0.1848 µg/L	0.1848 ppb	15:43:01
3	Mn 257.610†	163.1	-11.8	-0.0156 µg/L	-0.0156 ppb	15:43:21
3	Mo 202.031†	-27.1	7.5	0.2393 µg/L	0.2393 ppb	15:43:21
3	Ni 231.604†	-73.8	3.8	0.0482 µg/L	0.0482 ppb	15:43:21
3	P 214.914†	21.6	16.6	3.9756 µg/L	3.9756 ppb	15:43:21
3	Pb 220.353†	107.7	11.1	0.6820 µg/L	0.6820 ppb	15:43:21
3	S 181.975 Axial†	89.1	1.7	1.3920 µg/L	1.3920 ppb	15:43:21
3	Sb 206.836†	74.7	-3.1	-0.3965 µg/L	-0.3965 ppb	15:43:21
3	Se 196.026†	12.9	-0.6	-0.241 µg/L	-0.241 ppb	15:43:21
3	SiO2†	1708.0	-38.6	-4.1618 µg/L	-4.1618 ppb	15:43:21
3	Si 251.611†	777.3	-168.4	-2.7378 µg/L	-2.7378 ppb	15:43:21
3	Sn 189.927†	17.4	20.0	1.3815 µg/L	1.3815 ppb	15:43:21
3	Ti 334.940†	767.6	-115.0	-0.1142 µg/L	-0.1142 ppb	15:43:01
3	Tl 190.801†	-132.3	-15.7	-2.1132 µg/L	-2.1132 ppb	15:43:21
3	U 409.014†	-314.3	-31.8	-2.0187 µg/L	-2.0187 ppb	15:43:01
3	V 292.402†	220.4	-88.6	-0.4693 µg/L	-0.4693 ppb	15:43:01
3	Zn 213.857†	528.4	5.8	0.0357 µg/L	0.0357 ppb	15:43:21

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1751667.9	99.806 %	0.5076			0.51%
Sc RADIAL	151055.6	102 %	0.7			0.71%
Y 371.029	1062853.3	99.888 %	0.4370			0.44%
Ag 328.068†	7.4	0.0288 µg/L	0.81049	0.0288 ppb	0.81049	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	19.0	3.8983 µg/L	1.61314	3.8983 ppb	1.61314	41.38%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.0	-0.0015 µg/L	2.12733	-0.0015 ppb	2.12733	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	30.3	0.4942 µg/L	0.43544	0.4942 ppb	0.43544	88.10%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-12.0	-0.0527 µg/L	0.14255	-0.0527 ppb	0.14255	270.66%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	196.1	0.0599 µg/L	0.02571	0.0599 ppb	0.02571	42.95%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-126.9	-7.6359 µg/L	0.30344	-7.6359 ppb	0.30344	3.97%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	15.5	0.1061 µg/L	0.12749	0.1061 ppb	0.12749	120.11%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-6.2	-0.0845 µg/L	0.22840	-0.0845 ppb	0.22840	270.40%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	-18.6	-0.1592 µg/L	0.17679	-0.1592 ppb	0.17679 111.07%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	33.3	0.1431 µg/L	0.47842	0.1431 ppb	0.47842 334.35%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	15.1	1.0146 µg/L	0.85793	1.0146 ppb	0.85793 84.56%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	251.3	103.40 µg/L	9.906	103.40 ppb	9.906 9.58%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	-2.6	-1.0590 µg/L	4.04567	-1.0590 ppb	4.04567 382.01%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	-10.0	-0.0134 µg/L	0.02732	-0.0134 ppb	0.02732 204.49%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	6.6	0.2105 µg/L	0.09765	0.2105 ppb	0.09765 46.40%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	651.2	98.798 µg/L	12.3396	98.798 ppb	12.3396 12.49%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	7.5	0.0942 µg/L	0.15155	0.0942 ppb	0.15155 160.83%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	10.3	2.4594 µg/L	1.34672	2.4594 ppb	1.34672 54.76%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	6.3	0.3849 µg/L	0.67701	0.3849 ppb	0.67701 175.89%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	5.3	4.3753 µg/L	4.22448	4.3753 ppb	4.22448 96.55%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	1.8	0.2447 µg/L	0.55538	0.2447 ppb	0.55538 226.96%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	0.4	0.163 µg/L	0.8651	0.163 ppb	0.8651 529.21%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	-48.7	-5.2267 µg/L	2.26347	-5.2267 ppb	2.26347 43.31%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	-158.1	-2.5658 µg/L	0.15427	-2.5658 ppb	0.15427 6.01%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	9.7	0.6740 µg/L	0.74189	0.6740 ppb	0.74189 110.07%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	-2.4	-0.0055 µg/L	0.11824	-0.0055 ppb	0.11824 >999.9%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	-89.5	-0.0911 µg/L	0.06887	-0.0911 ppb	0.06887 75.59%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	-6.1	-0.8178 µg/L	1.19565	-0.8178 ppb	1.19565 146.20%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	53.0	3.2957 µg/L	7.48152	3.2957 ppb	7.48152 227.01%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	-78.1	-0.4107 µg/L	0.33575	-0.4107 ppb	0.33575 81.75%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	18.7	0.1152 µg/L	0.06972	0.1152 ppb	0.06972 60.49%
	QC value within limits for Zn 213.857 Recovery = Not calculated				

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/30/2010 15:54:07

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	152898.0	152898.0	103 %		15:54:41
1	Al 396.153Radial†	25494.9	24712.6	5069.0 µg/L	5069.0 ppb	15:54:41
1	Ca 317.933Radial†	88550.4	84917.2	5109.3 µg/L	5109.3 ppb	15:54:41
1	Fe 238.204 Radial†	78113.2	75383.3	5072.4 µg/L	5072.4 ppb	15:54:41
1	K 766.490 Radial†	14245.1	12460.1	5124.0 µg/L	5124.0 ppb	15:54:41
1	Mg 279.077 IEC†	13260.3	12651.9	5198.1 µg/L	5198.1 ppb	15:54:41
1	Na 589.592 Radial†	69947.5	66422.3	10081 µg/L	10081 ppb	15:54:41
1	Sr 421.552†	225954.2	218686.1	504.44 µg/L	504.44 ppb	15:54:39
1	Sc 361.383	1766476.2	1766476.2	100.65 %		15:54:53
1	Y 371.029	1056827.3	1056827.3	99.322 %		15:54:53
1	Ag 328.068†	130821.0	126529.7	509.27 µg/L	509.27 ppb	15:54:53
1	As 188.979†	1449.4	1457.7	516.01 µg/L	516.01 ppb	15:55:14
1	B 249.677†	34337.2	30885.3	501.79 µg/L	501.79 ppb	15:54:53
1	Ba 233.527†	116922.3	116330.0	506.93 µg/L	506.93 ppb	15:54:53
1	Be 313.107†	1701022.2	1690831.4	507.58 µg/L	507.58 ppb	15:54:53
1	Cd 226.502†	74763.6	74391.2	510.48 µg/L	510.48 ppb	15:54:53
1	Co 228.616†	37890.8	37818.7	511.76 µg/L	511.76 ppb	15:54:53
1	Cr 267.716†	60801.9	60231.0	507.36 µg/L	507.36 ppb	15:54:53
1	Cu 324.752†	123064.6	119481.6	505.05 µg/L	505.05 ppb	15:54:53
1	Mn 257.610†	383529.0	380878.5	508.87 µg/L	508.87 ppb	15:54:53
1	Mo 202.031†	16006.9	15938.4	507.45 µg/L	507.45 ppb	15:55:14
1	Ni 231.604†	40839.2	40653.6	511.33 µg/L	511.33 ppb	15:54:53
1	P 214.914†	10798.6	10723.9	2549.2 µg/L	2549.2 ppb	15:55:14
1	Pb 220.353†	8511.4	8359.5	513.46 µg/L	513.46 ppb	15:55:14
1	S 181.975 Axial†	1341.1	1244.7	1024.6 µg/L	1024.6 ppb	15:55:14
1	Sb 206.836†	3967.2	3863.5	507.74 µg/L	507.74 ppb	15:55:14
1	Se 196.026†	1297.6	1275.7	513 µg/L	513 ppb	15:55:14
1	SiO2†	53075.1	50979.5	5432.2 µg/L	5432.2 ppb	15:54:53
1	Si 251.611†	159406.2	157429.0	2538.1 µg/L	2538.1 ppb	15:54:53
1	Sn 189.927†	7400.1	7354.9	510.89 µg/L	510.89 ppb	15:55:14
1	Ti 334.940†	509982.0	505805.6	506.08 µg/L	506.08 ppb	15:54:53
1	Tl 190.801†	3697.9	3791.1	517.08 µg/L	517.08 ppb	15:55:14
1	U 409.014†	7385.3	7621.4	508.08 µg/L	508.08 ppb	15:54:53
1	V 292.402†	95602.3	94675.5	509.40 µg/L	509.40 ppb	15:54:53
1	Zn 213.857†	83405.4	82342.7	506.69 µg/L	506.69 ppb	15:54:53
2	Sc RADIAL	153813.3	153813.3	104 %		15:54:45
2	Al 396.153Radial†	25906.1	24961.2	5120.3 µg/L	5120.3 ppb	15:54:45
2	Ca 317.933Radial†	90324.6	86113.0	5181.2 µg/L	5181.2 ppb	15:54:45
2	Fe 238.204 Radial†	79894.0	76645.4	5157.4 µg/L	5157.4 ppb	15:54:45
2	K 766.490 Radial†	14489.5	12613.1	5186.9 µg/L	5186.9 ppb	15:54:45
2	Mg 279.077 IEC†	13565.2	12868.7	5286.9 µg/L	5286.9 ppb	15:54:45
2	Na 589.592 Radial†	71256.6	67278.0	10211 µg/L	10211 ppb	15:54:45
2	Sr 421.552†	230368.6	221628.8	511.22 µg/L	511.22 ppb	15:54:43
2	Sc 361.383	1761903.1	1761903.1	100.39 %		15:55:17
2	Y 371.029	1054491.7	1054491.7	99.102 %		15:55:17
2	Ag 328.068†	130499.2	126546.5	509.34 µg/L	509.34 ppb	15:55:17
2	As 188.979†	1426.1	1438.2	509.18 µg/L	509.18 ppb	15:55:37
2	B 249.677†	34599.7	31235.3	507.49 µg/L	507.49 ppb	15:55:17
2	Ba 233.527†	116559.6	116270.2	506.67 µg/L	506.67 ppb	15:55:17
2	Be 313.107†	1696997.8	1691209.1	507.69 µg/L	507.69 ppb	15:55:17
2	Cd 226.502†	74443.4	74265.1	509.60 µg/L	509.60 ppb	15:55:17
2	Co 228.616†	37855.1	37880.8	512.60 µg/L	512.60 ppb	15:55:17
2	Cr 267.716†	60290.1	59878.0	504.39 µg/L	504.39 ppb	15:55:17
2	Cu 324.752†	122978.4	119713.0	506.04 µg/L	506.04 ppb	15:55:17
2	Mn 257.610†	382160.3	380504.2	508.37 µg/L	508.37 ppb	15:55:17
2	Mo 202.031†	15939.1	15912.1	506.62 µg/L	506.62 ppb	15:55:37
2	Ni 231.604†	40586.6	40507.2	509.49 µg/L	509.49 ppb	15:55:17
2	P 214.914†	10736.5	10689.9	2541.1 µg/L	2541.1 ppb	15:55:37
2	Pb 220.353†	8464.9	8335.1	511.96 µg/L	511.96 ppb	15:55:37





Cr	267.716†	60020.0	505.58 µg/L	1.569	505.58 ppb	1.569	0.31%
Cu	324.752†	119643.1	505.74 µg/L	0.599	505.74 ppb	0.599	0.12%
Fe	238.204 Radial†	76097.9	5120.5 µg/L	43.57	5120.5 ppb	43.57	0.85%
K	766.490 Radial†	12546.8	5159.6 µg/L	32.29	5159.6 ppb	32.29	0.63%
Mg	279.077 IEC†	12788.2	5254.0 µg/L	48.64	5254.0 ppb	48.64	0.93%
Mn	257.610†	380621.6	508.52 µg/L	0.300	508.52 ppb	0.300	0.06%
Mo	202.031†	15962.2	508.21 µg/L	2.079	508.21 ppb	2.079	0.41%
Na	589.592 Radial†	66883.7	10152 µg/L	65.5	10152 ppb	65.5	0.65%
Ni	231.604†	40570.9	510.29 µg/L	0.944	510.29 ppb	0.944	0.18%
P	214.914†	10713.3	2546.7 µg/L	4.86	2546.7 ppb	4.86	0.19%
Pb	220.353†	8352.7	513.05 µg/L	0.948	513.05 ppb	0.948	0.18%
S	181.975 Axial†	1244.2	1024.2 µg/L	7.94	1024.2 ppb	7.94	0.78%
Sb	206.836†	3882.5	510.27 µg/L	2.400	510.27 ppb	2.400	0.47%
Se	196.026†	1276.9	513 µg/L	1.3	513 ppb	1.3	0.25%
SiO2†		50803.0	5413.3 µg/L	18.10	5413.3 ppb	18.10	0.33%
Si	251.611†	157073.6	2532.3 µg/L	5.09	2532.3 ppb	5.09	0.20%
Sn	189.927†	7365.3	511.62 µg/L	2.390	511.62 ppb	2.390	0.47%
Sr	421.552†	220241.5	508.02 µg/L	3.410	508.02 ppb	3.410	0.67%
Ti	334.940†	505726.1	506.00 µg/L	0.218	506.00 ppb	0.218	0.04%
Tl	190.801†	3796.3	517.77 µg/L	0.678	517.77 ppb	0.678	0.13%
U	409.014†	7625.4	508.34 µg/L	0.406	508.34 ppb	0.406	0.08%
V	292.402†	94772.6	509.91 µg/L	0.466	509.91 ppb	0.466	0.09%
Zn	213.857†	82343.2	506.69 µg/L	0.254	506.69 ppb	0.254	0.05%

QC value within limits for Co 228.616 Recovery = 102.44%  
 QC value within limits for Cr 267.716 Recovery = 101.12%  
 QC value within limits for Cu 324.752 Recovery = 101.15%  
 QC value within limits for Fe 238.204 Radial Recovery = 102.41%  
 QC value within limits for K 766.490 Radial Recovery = 103.19%  
 QC value within limits for Mg 279.077 IEC Recovery = 105.08%  
 QC value within limits for Mn 257.610 Recovery = 101.70%  
 QC value within limits for Mo 202.031 Recovery = 101.64%  
 QC value within limits for Na 589.592 Radial Recovery = 101.52%  
 QC value within limits for Ni 231.604 Recovery = 102.06%  
 QC value within limits for P 214.914 Recovery = 101.87%  
 QC value within limits for Pb 220.353 Recovery = 102.61%  
 QC value within limits for S 181.975 Axial Recovery = 102.42%  
 QC value within limits for Sb 206.836 Recovery = 102.05%  
 QC value within limits for Se 196.026 Recovery = 102.67%  
 QC value within limits for SiO2 Recovery = 101.23%  
 QC value within limits for Si 251.611 Recovery = 101.29%  
 QC value within limits for Sn 189.927 Recovery = 102.32%  
 QC value within limits for Sr 421.552 Recovery = 101.60%  
 QC value within limits for Ti 334.940 Recovery = 101.20%  
 QC value within limits for Tl 190.801 Recovery = 103.55%  
 QC value within limits for U 409.014 Recovery = 101.67%  
 QC value within limits for V 292.402 Recovery = 101.98%  
 QC value within limits for Zn 213.857 Recovery = 101.34%

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/30/2010 15:56:07

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	151439.2	151439.2	102 %		15:56:36
1	Al 396.153Radial†	-72.0	-7.4	-1.5426 µg/L	-1.5426 ppb	15:56:56
1	Ca 317.933Radial†	616.3	-96.4	-5.7988 µg/L	-5.7988 ppb	15:56:56
1	Fe 238.204 Radial†	169.0	24.3	1.6349 µg/L	1.6349 ppb	15:56:56
1	K 766.490 Radial†	1445.7	98.4	40.501 µg/L	40.501 ppb	15:56:36
1	Mg 279.077 IEC†	154.2	-18.3	-7.4960 µg/L	-7.4960 ppb	15:56:56
1	Na 589.592 Radial†	1619.2	374.0	56.749 µg/L	56.749 ppb	15:56:36
1	Sr 421.552†	-165.2	60.4	0.1393 µg/L	0.1393 ppb	15:56:36
1	Sc 361.383	1780635.7	1780635.7	101.46 %		15:57:44
1	Y 371.029	1078953.6	1078953.6	101.40 %		15:57:44
1	Ag 328.068†	3244.7	-249.0	-0.9690 µg/L	-0.9690 ppb	15:57:46
1	As 188.979†	-21.9	-3.9	-1.3519 µg/L	-1.3519 ppb	15:58:06
1	B 249.677†	3281.0	3.6	0.0578 µg/L	0.0578 ppb	15:58:06
1	Ba 233.527†	-154.7	9.6	0.0424 µg/L	0.0424 ppb	15:58:06
1	Be 313.107†	-762.3	34.2	0.0139 µg/L	0.0139 ppb	15:57:46
1	Cd 226.502†	-101.4	10.1	0.0691 µg/L	0.0691 ppb	15:58:06
1	Co 228.616†	-173.3	1.6	0.0220 µg/L	0.0220 ppb	15:58:06
1	Cr 267.716†	179.0	-2.1	-0.0268 µg/L	-0.0268 ppb	15:58:06
1	Cu 324.752†	2941.0	109.8	0.4727 µg/L	0.4727 ppb	15:57:46
1	Mn 257.610†	182.1	3.9	0.0055 µg/L	0.0055 ppb	15:58:06
1	Mo 202.031†	-29.1	6.1	0.1930 µg/L	0.1930 ppb	15:58:06
1	Ni 231.604†	-53.4	25.3	0.3179 µg/L	0.3179 ppb	15:58:06
1	P 214.914†	-6.7	-11.6	-2.7718 µg/L	-2.7718 ppb	15:58:06
1	Pb 220.353†	74.0	-24.0	-1.4785 µg/L	-1.4785 ppb	15:58:06
1	S 181.975 Axial†	91.2	2.2	1.8313 µg/L	1.8313 ppb	15:58:06
1	Sb 206.836†	88.4	9.1	1.1933 µg/L	1.1933 ppb	15:58:06
1	Se 196.026†	5.5	-8.2	-3.26 µg/L	-3.26 ppb	15:58:06
1	SiO2†	1722.5	-55.4	-5.9330 µg/L	-5.9330 ppb	15:58:06
1	Si 251.611†	814.0	-146.4	-2.3730 µg/L	-2.3730 ppb	15:57:46
1	Sn 189.927†	0.5	3.0	0.2076 µg/L	0.2076 ppb	15:58:06
1	Ti 334.940†	800.0	-97.0	-0.1016 µg/L	-0.1016 ppb	15:57:46
1	Tl 190.801†	-108.0	10.6	1.4336 µg/L	1.4336 ppb	15:58:06
1	U 409.014†	-95.3	189.8	11.916 µg/L	11.916 ppb	15:57:46
1	V 292.402†	409.5	93.8	0.5079 µg/L	0.5079 ppb	15:57:46
1	Zn 213.857†	545.2	12.8	0.0767 µg/L	0.0767 ppb	15:58:06
2	Sc RADIAL	151193.9	151193.9	102 %		15:56:58
2	Al 396.153Radial†	-43.5	20.3	4.1777 µg/L	4.1777 ppb	15:57:18
2	Ca 317.933Radial†	606.3	-105.1	-6.3262 µg/L	-6.3262 ppb	15:57:18
2	Fe 238.204 Radial†	149.4	5.4	0.3634 µg/L	0.3634 ppb	15:57:18
2	K 766.490 Radial†	1567.7	220.0	90.539 µg/L	90.539 ppb	15:56:58
2	Mg 279.077 IEC†	165.7	-6.8	-2.7730 µg/L	-2.7730 ppb	15:57:18
2	Na 589.592 Radial†	1434.7	196.2	29.707 µg/L	29.707 ppb	15:56:58
2	Sr 421.552†	-144.2	80.6	0.1860 µg/L	0.1860 ppb	15:56:58
2	Sc 361.383	1788543.9	1788543.9	101.91 %		15:58:08
2	Y 371.029	1084926.2	1084926.2	101.96 %		15:58:08
2	Ag 328.068†	3467.9	-44.1	-0.1775 µg/L	-0.1775 ppb	15:58:10
2	As 188.979†	-14.5	3.4	1.1993 µg/L	1.1993 ppb	15:58:31
2	B 249.677†	3282.6	-9.2	-0.1495 µg/L	-0.1495 ppb	15:58:31
2	Ba 233.527†	-160.2	5.0	0.0214 µg/L	0.0214 ppb	15:58:31
2	Be 313.107†	-876.6	-74.6	-0.0216 µg/L	-0.0216 ppb	15:58:10
2	Cd 226.502†	-88.5	23.2	0.1594 µg/L	0.1594 ppb	15:58:31
2	Co 228.616†	-168.8	6.8	0.0915 µg/L	0.0915 ppb	15:58:31
2	Cr 267.716†	172.5	-9.3	-0.0809 µg/L	-0.0809 ppb	15:58:31
2	Cu 324.752†	2798.2	-43.1	-0.1793 µg/L	-0.1793 ppb	15:58:10
2	Mn 257.610†	188.0	8.9	0.0120 µg/L	0.0120 ppb	15:58:31
2	Mo 202.031†	-30.5	4.8	0.1539 µg/L	0.1539 ppb	15:58:31
2	Ni 231.604†	-56.6	22.4	0.2813 µg/L	0.2813 ppb	15:58:31
2	P 214.914†	16.7	11.4	2.7279 µg/L	2.7279 ppb	15:58:31
2	Pb 220.353†	87.8	-10.8	-0.6657 µg/L	-0.6657 ppb	15:58:31

2	S 181.975 Axial†	84.4	-4.9	-3.9753 µg/L	-3.9753 ppb	15:58:31
2	Sb 206.836†	83.3	3.7	0.4863 µg/L	0.4863 ppb	15:58:31
2	Se 196.026†	10.9	-2.8	-1.14 µg/L	-1.14 ppb	15:58:31
2	SiO2†	1694.0	-90.8	-9.7342 µg/L	-9.7342 ppb	15:58:31
2	Si 251.611†	679.6	-281.8	-4.5682 µg/L	-4.5682 ppb	15:58:10
2	Sn 189.927†	8.5	10.8	0.7504 µg/L	0.7504 ppb	15:58:31
2	Ti 334.940†	780.2	-120.0	-0.1212 µg/L	-0.1212 ppb	15:58:10
2	Tl 190.801†	-120.1	-0.8	-0.1139 µg/L	-0.1139 ppb	15:58:31
2	U 409.014†	-244.9	43.5	2.6943 µg/L	2.6943 ppb	15:58:10
2	V 292.402†	222.5	-91.5	-0.4827 µg/L	-0.4827 ppb	15:58:10
2	Zn 213.857†	522.6	-11.7	-0.0744 µg/L	-0.0744 ppb	15:58:31
3	Sc RADIAL	154076.6	154076.6	104 %		15:57:20
3	Al 396.153Radial†	-54.3	10.8	2.1942 µg/L	2.1942 ppb	15:57:40
3	Ca 317.933Radial†	596.1	-126.0	-7.5815 µg/L	-7.5815 ppb	15:57:40
3	Fe 238.204 Radial†	155.3	8.3	0.5568 µg/L	0.5568 ppb	15:57:40
3	K 766.490 Radial†	1553.2	177.5	73.025 µg/L	73.025 ppb	15:57:20
3	Mg 279.077 IEC†	169.5	-6.1	-2.5093 µg/L	-2.5093 ppb	15:57:40
3	Na 589.592 Radial†	1594.2	322.9	48.967 µg/L	48.967 ppb	15:57:20
3	Sr 421.552†	-178.8	50.1	0.1157 µg/L	0.1157 ppb	15:57:20
3	Sc 361.383	1782784.5	1782784.5	101.58 %		15:58:33
3	Y 371.029	1079758.6	1079758.6	101.48 %		15:58:33
3	Ag 328.068†	3519.5	17.7	0.0810 µg/L	0.0810 ppb	15:58:35
3	As 188.979†	-20.0	-2.0	-0.7016 µg/L	-0.7016 ppb	15:58:55
3	B 249.677†	3260.4	-20.6	-0.3346 µg/L	-0.3346 ppb	15:58:55
3	Ba 233.527†	-168.8	-4.1	-0.0174 µg/L	-0.0174 ppb	15:58:55
3	Be 313.107†	-744.6	52.6	0.0175 µg/L	0.0175 ppb	15:58:35
3	Cd 226.502†	-119.6	-7.7	-0.0530 µg/L	-0.0530 ppb	15:58:55
3	Co 228.616†	-192.4	-17.0	-0.2302 µg/L	-0.2302 ppb	15:58:55
3	Cr 267.716†	193.8	12.2	0.0986 µg/L	0.0986 ppb	15:58:55
3	Cu 324.752†	2820.2	-12.5	-0.0483 µg/L	-0.0483 ppb	15:58:35
3	Mn 257.610†	192.7	14.1	0.0190 µg/L	0.0190 ppb	15:58:55
3	Mo 202.031†	-18.1	16.9	0.5389 µg/L	0.5389 ppb	15:58:55
3	Ni 231.604†	-65.1	13.9	0.1742 µg/L	0.1742 ppb	15:58:55
3	P 214.914†	28.6	23.1	5.5155 µg/L	5.5155 ppb	15:58:55
3	Pb 220.353†	86.4	-11.9	-0.7331 µg/L	-0.7331 ppb	15:58:55
3	S 181.975 Axial†	100.3	11.1	9.0775 µg/L	9.0775 ppb	15:58:55
3	Sb 206.836†	82.3	2.9	0.3909 µg/L	0.3909 ppb	15:58:55
3	Se 196.026†	27.7	13.7	5.49 µg/L	5.49 ppb	15:58:55
3	SiO2†	1706.2	-73.4	-7.8720 µg/L	-7.8720 ppb	15:58:55
3	Si 251.611†	625.5	-332.9	-5.3961 µg/L	-5.3961 ppb	15:58:35
3	Sn 189.927†	-0.2	2.4	0.1627 µg/L	0.1627 ppb	15:58:55
3	Ti 334.940†	859.2	-39.7	-0.0422 µg/L	-0.0422 ppb	15:58:35
3	Tl 190.801†	-110.1	8.7	1.1743 µg/L	1.1743 ppb	15:58:55
3	U 409.014†	-196.3	90.5	5.6852 µg/L	5.6852 ppb	15:58:35
3	V 292.402†	371.6	56.0	0.3070 µg/L	0.3070 ppb	15:58:35
3	Zn 213.857†	538.8	5.9	0.0355 µg/L	0.0355 ppb	15:58:55

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Sc 361.383	1783988.0	101.65 %		0.233			0.23%
Sc RADIAL	152236.5	103 %		1.1			1.05%
Y 371.029	1081212.8	101.61 %		0.305			0.30%
Ag 328.068†	-91.8	-0.3551 µg/L		0.54711	-0.3551 ppb	0.54711	154.05%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	7.9	1.6098 µg/L		2.90460	1.6098 ppb	2.90460	180.44%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-0.8	-0.2847 µg/L		1.32573	-0.2847 ppb	1.32573	465.63%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-8.7	-0.1421 µg/L		0.19630	-0.1421 ppb	0.19630	138.15%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	3.5	0.0155 µg/L		0.03030	0.0155 ppb	0.03030	196.03%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	4.1	0.0033 µg/L		0.02159	0.0033 ppb	0.02159	661.63%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-109.2	-6.5688 µg/L		0.91577	-6.5688 ppb	0.91577	13.94%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	8.5	0.0585 µg/L		0.10659	0.0585 ppb	0.10659	182.23%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-2.9	-0.0389 µg/L		0.16924	-0.0389 ppb	0.16924	435.19%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	0.3	-0.0031 µg/L	0.09209	-0.0031 ppb	0.09209 >999.9%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	18.1	0.0817 µg/L	0.34488	0.0817 ppb	0.34488 421.99%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	12.7	0.8517 µg/L	0.68511	0.8517 ppb	0.68511 80.44%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	165.3	68.022 µg/L	25.3917	68.022 ppb	25.3917 37.33%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	-10.4	-4.2595 µg/L	2.80607	-4.2595 ppb	2.80607 65.88%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	9.0	0.0122 µg/L	0.00674	0.0122 ppb	0.00674 55.45%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	9.3	0.2953 µg/L	0.21192	0.2953 ppb	0.21192 71.77%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	297.7	45.141 µg/L	13.9213	45.141 ppb	13.9213 30.84%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	20.5	0.2578 µg/L	0.07467	0.2578 ppb	0.07467 28.96%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	7.7	1.8239 µg/L	4.21694	1.8239 ppb	4.21694 231.21%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	-15.6	-0.9591 µg/L	0.45107	-0.9591 ppb	0.45107 47.03%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	2.8	2.3112 µg/L	6.53963	2.3112 ppb	6.53963 282.96%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	5.2	0.6902 µg/L	0.43831	0.6902 ppb	0.43831 63.51%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	0.9	0.365 µg/L	4.5653	0.365 ppb	4.5653 >999.9%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	-73.2	-7.8464 µg/L	1.90075	-7.8464 ppb	1.90075 24.22%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	-253.7	-4.1124 µg/L	1.56225	-4.1124 ppb	1.56225 37.99%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	5.4	0.3736 µg/L	0.32709	0.3736 ppb	0.32709 87.56%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	63.7	0.1470 µg/L	0.03582	0.1470 ppb	0.03582 24.37%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	-85.6	-0.0883 µg/L	0.04118	-0.0883 ppb	0.04118 46.62%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	6.2	0.8313 µg/L	0.82883	0.8313 ppb	0.82883 99.70%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	107.9	6.7652 µg/L	4.70490	6.7652 ppb	4.70490 69.55%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	19.4	0.1107 µg/L	0.52363	0.1107 ppb	0.52363 472.88%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	2.3	0.0126 µg/L	0.07813	0.0126 ppb	0.07813 619.86%
	QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/30/2010 16:14:43

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	149150.0	149150.0	101 %		16:15:17
1	Al 396.153Radial†	25269.6	25108.8	5150.9 µg/L	5150.9 ppb	16:15:17
1	Ca 317.933Radial†	86235.0	84773.7	5100.6 µg/L	5100.6 ppb	16:15:17
1	Fe 238.204 Radial†	76185.8	75370.7	5071.6 µg/L	5071.6 ppb	16:15:17
1	K 766.490 Radial†	14043.6	12606.4	5184.2 µg/L	5184.2 ppb	16:15:17
1	Mg 279.077 IEC†	12863.8	12581.1	5168.9 µg/L	5168.9 ppb	16:15:17
1	Na 589.592 Radial†	68590.1	66776.4	10135 µg/L	10135 ppb	16:15:17
1	Sr 421.552†	226232.4	224451.5	517.74 µg/L	517.74 ppb	16:15:15
1	Sc 361.383	1743830.1	1743830.1	99.359 %		16:15:30
1	Y 371.029	1045853.2	1045853.2	98.290 %		16:15:30
1	Ag 328.068†	129026.3	126411.4	508.82 µg/L	508.82 ppb	16:15:30
1	As 188.979†	1380.4	1407.0	498.27 µg/L	498.27 ppb	16:15:50
1	B 249.677†	33705.9	30692.9	498.66 µg/L	498.66 ppb	16:15:30
1	Ba 233.527†	115037.9	115942.0	505.24 µg/L	505.24 ppb	16:15:30
1	Be 313.107†	1673671.2	1685251.5	505.91 µg/L	505.91 ppb	16:15:30
1	Cd 226.502†	72899.8	73480.1	504.22 µg/L	504.22 ppb	16:15:30
1	Co 228.616†	37152.7	37564.8	508.33 µg/L	508.33 ppb	16:15:30
1	Cr 267.716†	59737.2	59944.0	504.93 µg/L	504.93 ppb	16:15:30
1	Cu 324.752†	121910.0	119907.4	506.85 µg/L	506.85 ppb	16:15:30
1	Mn 257.610†	377168.2	379425.3	506.93 µg/L	506.93 ppb	16:15:30
1	Mo 202.031†	15653.7	15789.4	502.71 µg/L	502.71 ppb	16:15:50
1	Ni 231.604†	39991.2	40327.0	507.22 µg/L	507.22 ppb	16:15:30
1	P 214.914†	10343.3	10405.0	2473.1 µg/L	2473.1 ppb	16:15:50
1	Pb 220.353†	8250.5	8206.7	504.09 µg/L	504.09 ppb	16:15:50
1	Sb 181.975 Axial†	1280.3	1200.9	988.62 µg/L	988.62 ppb	16:15:50
1	Sb 206.836†	3859.6	3806.5	500.20 µg/L	500.20 ppb	16:15:50
1	Se 196.026†	1249.2	1243.7	500 µg/L	500 ppb	16:15:50
1	SiO2†	51956.5	50538.4	5385.4 µg/L	5385.4 ppb	16:15:30
1	Si 251.611†	156244.0	156303.0	2520.0 µg/L	2520.0 ppb	16:15:30
1	Sn 189.927†	7115.0	7163.4	497.64 µg/L	497.64 ppb	16:15:50
1	Ti 334.940†	504315.4	506682.5	506.96 µg/L	506.96 ppb	16:15:30
1	Tl 190.801†	3596.9	3737.2	509.85 µg/L	509.85 ppb	16:15:50
1	U 409.014†	7486.7	7818.7	520.48 µg/L	520.48 ppb	16:15:30
1	V 292.402†	94549.0	94848.9	510.27 µg/L	510.27 ppb	16:15:30
1	Zn 213.857†	81765.0	81767.8	503.15 µg/L	503.15 ppb	16:15:30
2	Sc RADIAL	149765.3	149765.3	101 %		16:15:21
2	Al 396.153Radial†	25441.5	25175.6	5164.4 µg/L	5164.4 ppb	16:15:21
2	Ca 317.933Radial†	86840.7	85020.4	5115.5 µg/L	5115.5 ppb	16:15:21
2	Fe 238.204 Radial†	76775.6	75642.7	5089.9 µg/L	5089.9 ppb	16:15:21
2	K 766.490 Radial†	14122.8	12627.5	5192.8 µg/L	5192.8 ppb	16:15:21
2	Mg 279.077 IEC†	13015.9	12678.9	5209.2 µg/L	5209.2 ppb	16:15:21
2	Na 589.592 Radial†	68934.4	66836.9	10144 µg/L	10144 ppb	16:15:21
2	Sr 421.552†	225922.3	223224.2	514.90 µg/L	514.90 ppb	16:15:19
2	Sc 361.383	1730132.7	1730132.7	98.579 %		16:15:53
2	Y 371.029	1036374.9	1036374.9	97.400 %		16:15:53
2	Ag 328.068†	128093.5	126493.2	509.15 µg/L	509.15 ppb	16:15:53
2	As 188.979†	1394.4	1432.2	507.08 µg/L	507.08 ppb	16:16:13
2	B 249.677†	33578.7	30832.5	500.93 µg/L	500.93 ppb	16:15:53
2	Ba 233.527†	114507.8	116320.9	506.89 µg/L	506.89 ppb	16:15:53
2	Be 313.107†	1660528.3	1685255.0	505.90 µg/L	505.90 ppb	16:15:53
2	Cd 226.502†	72288.3	73440.5	503.95 µg/L	503.95 ppb	16:15:53
2	Co 228.616†	36888.2	37592.4	508.70 µg/L	508.70 ppb	16:15:53
2	Cr 267.716†	59261.1	59936.9	504.88 µg/L	504.88 ppb	16:15:53
2	Cu 324.752†	120688.4	119639.5	505.72 µg/L	505.72 ppb	16:15:53
2	Mn 257.610†	374567.3	379792.1	507.42 µg/L	507.42 ppb	16:15:53
2	Mo 202.031†	15682.3	15943.1	507.60 µg/L	507.60 ppb	16:16:13
2	Ni 231.604†	39635.9	40285.2	506.70 µg/L	506.70 ppb	16:15:53
2	P 214.914†	10438.2	10583.7	2515.7 µg/L	2515.7 ppb	16:16:13
2	Pb 220.353†	8260.4	8282.6	508.75 µg/L	508.75 ppb	16:16:13

2	S 181.975 Axial†	1292.4	1223.3	1007.1 µg/L	1007.1 ppb	16:16:13
2	Sb 206.836†	3885.2	3863.2	507.73 µg/L	507.73 ppb	16:16:13
2	Se 196.026†	1263.8	1268.5	510 µg/L	510 ppb	16:16:13
2	SiO2†	51585.6	50576.2	5389.2 µg/L	5389.2 ppb	16:15:53
2	Si 251.611†	155023.4	156309.8	2520.0 µg/L	2520.0 ppb	16:15:53
2	Sn 189.927†	7177.9	7284.0	505.99 µg/L	505.99 ppb	16:16:13
2	Ti 334.940†	500412.6	506741.9	507.01 µg/L	507.01 ppb	16:15:53
2	Tl 190.801†	3606.0	3775.0	514.95 µg/L	514.95 ppb	16:16:13
2	U 409.014†	7358.1	7747.9	516.08 µg/L	516.08 ppb	16:15:53
2	V 292.402†	93924.9	94969.3	510.96 µg/L	510.96 ppb	16:15:53
2	Zn 213.857†	80946.3	81588.8	502.04 µg/L	502.04 ppb	16:15:53
3	Sc RADIAL	149946.8	149946.8	101 %		16:15:25
3	Al 396.153Radial†	25414.1	25118.2	5152.4 µg/L	5152.4 ppb	16:15:25
3	Ca 317.933Radial†	86403.6	84485.8	5083.3 µg/L	5083.3 ppb	16:15:25
3	Fe 238.204 Radial†	76499.4	75278.7	5065.4 µg/L	5065.4 ppb	16:15:25
3	K 766.490 Radial†	13924.5	12415.1	5105.4 µg/L	5105.4 ppb	16:15:25
3	Mg 279.077 IEC†	12917.9	12566.7	5163.3 µg/L	5163.3 ppb	16:15:25
3	Na 589.592 Radial†	68643.3	66467.5	10088 µg/L	10088 ppb	16:15:25
3	Sr 421.552†	226189.9	223218.1	514.89 µg/L	514.89 ppb	16:15:23
3	Sc 361.383	1725431.7	1725431.7	98.311 %		16:16:16
3	Y 371.029	1034770.8	1034770.8	97.249 %		16:16:16
3	Ag 328.068†	128336.4	127094.3	511.56 µg/L	511.56 ppb	16:16:16
3	As 188.979†	1389.6	1431.2	506.75 µg/L	506.75 ppb	16:16:36
3	B 249.677†	33509.2	30854.7	501.29 µg/L	501.29 ppb	16:16:16
3	Ba 233.527†	114602.5	116733.7	508.69 µg/L	508.69 ppb	16:16:16
3	Be 313.107†	1661309.7	1690639.2	507.52 µg/L	507.52 ppb	16:16:16
3	Cd 226.502†	72576.2	73933.2	507.33 µg/L	507.33 ppb	16:16:16
3	Co 228.616†	37001.5	37809.7	511.64 µg/L	511.64 ppb	16:16:16
3	Cr 267.716†	59258.1	60097.7	506.23 µg/L	506.23 ppb	16:16:16
3	Cu 324.752†	120857.8	120145.4	507.86 µg/L	507.86 ppb	16:16:16
3	Mn 257.610†	375185.0	381455.7	509.64 µg/L	509.64 ppb	16:16:16
3	Mo 202.031†	15775.7	16081.5	512.00 µg/L	512.00 ppb	16:16:36
3	Ni 231.604†	39815.9	40577.9	510.38 µg/L	510.38 ppb	16:16:16
3	P 214.914†	10530.8	10706.7	2545.1 µg/L	2545.1 ppb	16:16:36
3	Pb 220.353†	8329.8	8376.0	514.48 µg/L	514.48 ppb	16:16:36
3	S 181.975 Axial†	1303.5	1238.2	1019.3 µg/L	1019.3 ppb	16:16:36
3	Sb 206.836†	3907.5	3896.6	512.17 µg/L	512.17 ppb	16:16:36
3	Se 196.026†	1269.8	1278.0	514 µg/L	514 ppb	16:16:36
3	SiO2†	51617.4	50751.2	5407.7 µg/L	5407.7 ppb	16:16:16
3	Si 251.611†	155063.4	156779.0	2527.5 µg/L	2527.5 ppb	16:16:16
3	Sn 189.927†	7252.3	7379.4	512.60 µg/L	512.60 ppb	16:16:36
3	Ti 334.940†	500784.6	508503.3	508.78 µg/L	508.78 ppb	16:16:16
3	Tl 190.801†	3630.7	3810.1	519.68 µg/L	519.68 ppb	16:16:36
3	U 409.014†	7461.6	7873.5	524.02 µg/L	524.02 ppb	16:16:16
3	V 292.402†	93864.9	95167.9	512.07 µg/L	512.07 ppb	16:16:16
3	Zn 213.857†	81102.7	81971.6	504.39 µg/L	504.39 ppb	16:16:16

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1733131.5	98.750 %	0.5446			0.55%
Sc RADIAL	149620.7	101 %	0.3			0.28%
Y 371.029	1038999.7	97.646 %	0.5629			0.58%
Ag 328.068†	126666.3	509.84 µg/L	1.496	509.84 ppb	1.496	0.29%
QC value within limits for Ag 328.068 Recovery = 101.97%						
Al 396.153Radial†	25134.2	5155.9 µg/L	7.42	5155.9 ppb	7.42	0.14%
QC value within limits for Al 396.153Radial Recovery = 103.12%						
As 188.979†	1423.5	504.03 µg/L	4.990	504.03 ppb	4.990	0.99%
QC value within limits for As 188.979 Recovery = 100.81%						
B 249.677†	30793.4	500.29 µg/L	1.425	500.29 ppb	1.425	0.28%
QC value within limits for B 249.677 Recovery = 100.06%						
Ba 233.527†	116332.2	506.94 µg/L	1.726	506.94 ppb	1.726	0.34%
QC value within limits for Ba 233.527 Recovery = 101.39%						
Be 313.107†	1687048.6	506.44 µg/L	0.934	506.44 ppb	0.934	0.18%
QC value within limits for Be 313.107 Recovery = 101.29%						
Ca 317.933Radial†	84760.0	5099.8 µg/L	16.10	5099.8 ppb	16.10	0.32%
QC value within limits for Ca 317.933Radial Recovery = 102.00%						
Cd 226.502†	73617.9	505.17 µg/L	1.882	505.17 ppb	1.882	0.37%
QC value within limits for Cd 226.502 Recovery = 101.03%						
Co 228.616†	37655.6	509.56 µg/L	1.816	509.56 ppb	1.816	0.36%

QC value within limits for Co 228.616 Recovery = 101.91%							
Cr 267.716†	59992.9	505.35 µg/L	0.763	505.35 ppb	0.763	0.15%	
QC value within limits for Cr 267.716 Recovery = 101.07%							
Cu 324.752†	119897.4	506.81 µg/L	1.068	506.81 ppb	1.068	0.21%	
QC value within limits for Cu 324.752 Recovery = 101.36%							
Fe 238.204 Radial†	75430.7	5075.6 µg/L	12.74	5075.6 ppb	12.74	0.25%	
QC value within limits for Fe 238.204 Radial Recovery = 101.51%							
K 766.490 Radial†	12549.7	5160.8 µg/L	48.15	5160.8 ppb	48.15	0.93%	
QC value within limits for K 766.490 Radial Recovery = 103.22%							
Mg 279.077 IEC†	12608.9	5180.5 µg/L	25.01	5180.5 ppb	25.01	0.48%	
QC value within limits for Mg 279.077 IEC Recovery = 103.61%							
Mn 257.610†	380224.4	508.00 µg/L	1.447	508.00 ppb	1.447	0.28%	
QC value within limits for Mn 257.610 Recovery = 101.60%							
Mo 202.031†	15938.0	507.44 µg/L	4.647	507.44 ppb	4.647	0.92%	
QC value within limits for Mo 202.031 Recovery = 101.49%							
Na 589.592 Radial†	66693.6	10123 µg/L	30.0	10123 ppb	30.0	0.30%	
QC value within limits for Na 589.592 Radial Recovery = 101.23%							
Ni 231.604†	40396.7	508.10 µg/L	1.991	508.10 ppb	1.991	0.39%	
QC value within limits for Ni 231.604 Recovery = 101.62%							
P 214.914†	10565.1	2511.3 µg/L	36.21	2511.3 ppb	36.21	1.44%	
QC value within limits for P 214.914 Recovery = 100.45%							
Pb 220.353†	8288.4	509.11 µg/L	5.203	509.11 ppb	5.203	1.02%	
QC value within limits for Pb 220.353 Recovery = 101.82%							
S 181.975 Axial†	1220.8	1005.0 µg/L	15.45	1005.0 ppb	15.45	1.54%	
QC value within limits for S 181.975 Axial Recovery = 100.50%							
Sb 206.836†	3855.4	506.70 µg/L	6.046	506.70 ppb	6.046	1.19%	
QC value within limits for Sb 206.836 Recovery = 101.34%							
Se 196.026†	1263.4	508 µg/L	7.1	508 ppb	7.1	1.40%	
QC value within limits for Se 196.026 Recovery = 101.59%							
SiO2†	50621.9	5394.1 µg/L	11.92	5394.1 ppb	11.92	0.22%	
QC value within limits for SiO2 Recovery = 100.87%							
Si 251.611†	156464.0	2522.5 µg/L	4.32	2522.5 ppb	4.32	0.17%	
QC value within limits for Si 251.611 Recovery = 100.90%							
Sn 189.927†	7275.6	505.41 µg/L	7.497	505.41 ppb	7.497	1.48%	
QC value within limits for Sn 189.927 Recovery = 101.08%							
Sr 421.552†	223631.3	515.84 µg/L	1.639	515.84 ppb	1.639	0.32%	
QC value within limits for Sr 421.552 Recovery = 103.17%							
Ti 334.940†	507309.2	507.58 µg/L	1.036	507.58 ppb	1.036	0.20%	
QC value within limits for Ti 334.940 Recovery = 101.52%							
Tl 190.801†	3774.1	514.82 µg/L	4.916	514.82 ppb	4.916	0.95%	
QC value within limits for Tl 190.801 Recovery = 102.96%							
U 409.014†	7813.4	520.19 µg/L	3.979	520.19 ppb	3.979	0.76%	
QC value within limits for U 409.014 Recovery = 104.04%							
V 292.402†	94995.4	511.10 µg/L	0.907	511.10 ppb	0.907	0.18%	
QC value within limits for V 292.402 Recovery = 102.22%							
Zn 213.857†	81776.1	503.20 µg/L	1.177	503.20 ppb	1.177	0.23%	
QC value within limits for Zn 213.857 Recovery = 100.64%							
All analyte(s) passed QC.							



Sequence No.: 10

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/30/2010 16:16:44

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	152510.8	152510.8	103 %		16:17:13
1	Al 396.153Radial†	-68.3	-3.3	-0.6778 µg/L	-0.6778 ppb	16:17:33
1	Ca 317.933Radial†	643.7	-74.0	-4.4537 µg/L	-4.4537 ppb	16:17:33
1	Fe 238.204 Radial†	170.7	24.8	1.6683 µg/L	1.6683 ppb	16:17:33
1	K 766.490 Radial†	1615.7	253.3	104.22 µg/L	104.22 ppb	16:17:13
1	Mg 279.077 IEC†	181.7	7.3	3.0013 µg/L	3.0013 ppb	16:17:33
1	Na 589.592 Radial†	1660.0	402.4	61.015 µg/L	61.015 ppb	16:17:13
1	Sr 421.552†	-303.7	-72.7	-0.1677 µg/L	-0.1677 ppb	16:17:13
1	Sc 361.383	1759072.3	1759072.3	100.23 %		16:18:35
1	Y 371.029	1067700.7	1067700.7	100.34 %		16:18:35
1	Ag 328.068†	3299.8	-154.8	-0.6092 µg/L	-0.6092 ppb	16:18:37
1	As 188.979†	-9.7	8.0	2.7973 µg/L	2.7973 ppb	16:18:57
1	B 249.677†	3239.6	1.9	0.0316 µg/L	0.0316 ppb	16:18:57
1	Ba 233.527†	-126.7	35.8	0.1559 µg/L	0.1559 ppb	16:18:57
1	Be 313.107†	-608.6	178.4	0.0540 µg/L	0.0540 ppb	16:18:37
1	Cd 226.502†	-84.9	25.3	0.1738 µg/L	0.1738 ppb	16:18:57
1	Co 228.616†	-181.9	-9.1	-0.1227 µg/L	-0.1227 ppb	16:18:57
1	Cr 267.716†	197.4	18.4	0.1538 µg/L	0.1538 ppb	16:18:57
1	Cu 324.752†	2726.7	-68.4	-0.2868 µg/L	-0.2868 ppb	16:18:37
1	Mn 257.610†	182.0	6.0	0.0078 µg/L	0.0078 ppb	16:18:57
1	Mo 202.031†	-34.1	0.7	0.0222 µg/L	0.0222 ppb	16:18:57
1	Ni 231.604†	-52.6	25.4	0.3196 µg/L	0.3196 ppb	16:18:57
1	P 214.914†	19.6	14.5	3.4755 µg/L	3.4755 ppb	16:18:57
1	Pb 220.353†	72.0	-25.1	-1.5369 µg/L	-1.5369 ppb	16:18:57
1	S 181.975 Axial†	79.9	-7.9	-6.5165 µg/L	-6.5165 ppb	16:18:57
1	Sb 206.836†	94.4	16.1	2.1104 µg/L	2.1104 ppb	16:18:57
1	Se 196.026†	15.5	1.9	0.753 µg/L	0.753 ppb	16:18:57
1	SiO2†	1694.7	-62.3	-6.6745 µg/L	-6.6745 ppb	16:18:57
1	Si 251.611†	776.4	-174.1	-2.8231 µg/L	-2.8231 ppb	16:18:57
1	Sn 189.927†	9.6	12.1	0.8404 µg/L	0.8404 ppb	16:18:57
1	Ti 334.940†	742.0	-145.3	-0.1466 µg/L	-0.1466 ppb	16:18:37
1	Tl 190.801†	-106.0	11.3	1.5216 µg/L	1.5216 ppb	16:18:57
1	U 409.014†	-258.8	25.5	1.6179 µg/L	1.6179 ppb	16:18:37
1	V 292.402†	373.2	62.5	0.3338 µg/L	0.3338 ppb	16:18:37
1	Zn 213.857†	535.1	9.3	0.0558 µg/L	0.0558 ppb	16:18:57
2	Sc RADIAL	151582.4	151582.4	103 %		16:17:35
2	Al 396.153Radial†	-55.1	9.1	1.8727 µg/L	1.8727 ppb	16:17:55
2	Ca 317.933Radial†	630.1	-83.4	-5.0209 µg/L	-5.0209 ppb	16:17:55
2	Fe 238.204 Radial†	171.5	26.6	1.7868 µg/L	1.7868 ppb	16:17:55
2	K 766.490 Radial†	1635.4	282.1	116.08 µg/L	116.08 ppb	16:17:35
2	Mg 279.077 IEC†	165.2	-7.7	-3.1386 µg/L	-3.1386 ppb	16:17:55
2	Na 589.592 Radial†	1719.4	470.2	71.292 µg/L	71.292 ppb	16:17:35
2	Sr 421.552†	-209.5	17.3	0.0401 µg/L	0.0401 ppb	16:17:35
2	Sc 361.383	1753832.5	1753832.5	99.929 %		16:18:59
2	Y 371.029	1063469.2	1063469.2	99.946 %		16:18:59
2	Ag 328.068†	3412.7	-31.9	-0.1532 µg/L	-0.1532 ppb	16:19:02
2	As 188.979†	-15.2	2.5	0.8643 µg/L	0.8643 ppb	16:19:22
2	B 249.677†	3187.6	-40.5	-0.6608 µg/L	-0.6608 ppb	16:19:22
2	Ba 233.527†	-166.9	-4.9	-0.0217 µg/L	-0.0217 ppb	16:19:22
2	Be 313.107†	-546.6	238.6	0.0668 µg/L	0.0668 ppb	16:19:02
2	Cd 226.502†	-96.9	13.0	0.0892 µg/L	0.0892 ppb	16:19:22
2	Co 228.616†	-157.9	14.5	0.1955 µg/L	0.1955 ppb	16:19:22
2	Cr 267.716†	176.0	-2.5	-0.0085 µg/L	-0.0085 ppb	16:19:22
2	Cu 324.752†	2780.5	-6.4	-0.0400 µg/L	-0.0400 ppb	16:19:02
2	Mn 257.610†	169.9	-5.6	-0.0073 µg/L	-0.0073 ppb	16:19:22
2	Mo 202.031†	-32.0	2.8	0.0877 µg/L	0.0877 ppb	16:19:22
2	Ni 231.604†	-73.4	4.5	0.0561 µg/L	0.0561 ppb	16:19:22
2	P 214.914†	-19.7	-24.7	-5.8854 µg/L	-5.8854 ppb	16:19:22
2	Pb 220.353†	88.9	-8.0	-0.4789 µg/L	-0.4789 ppb	16:19:22

2	S 181.975 Axial†	82.2	-5.4	-4.4658 µg/L	-4.4658 ppb	16:19:22
2	Sb 206.836†	74.7	-3.3	-0.4337 µg/L	-0.4337 ppb	16:19:22
2	Se 196.026†	28.8	15.3	6.10 µg/L	6.10 ppb	16:19:22
2	SiO2†	1697.3	-54.7	-5.8600 µg/L	-5.8600 ppb	16:19:22
2	Si 251.611†	778.3	-169.8	-2.7541 µg/L	-2.7541 ppb	16:19:22
2	Sn 189.927†	8.2	10.7	0.7420 µg/L	0.7420 ppb	16:19:22
2	Ti 334.940†	832.1	-52.8	-0.0463 µg/L	-0.0463 ppb	16:19:02
2	Tl 190.801†	-117.4	-0.4	-0.0659 µg/L	-0.0659 ppb	16:19:22
2	U 409.014†	-537.9	-254.5	-15.974 µg/L	-15.974 ppb	16:19:02
2	V 292.402†	201.3	-108.4	-0.5855 µg/L	-0.5855 ppb	16:19:02
2	Zn 213.857†	517.9	-6.3	-0.0395 µg/L	-0.0395 ppb	16:19:22
3	Sc RADIAL	150090.6	150090.6	102 %		16:17:57
3	Al 396.153Radial†	-27.8	35.5	7.2924 µg/L	7.2924 ppb	16:18:17
3	Ca 317.933Radial†	602.3	-104.7	-6.3004 µg/L	-6.3004 ppb	16:18:17
3	Fe 238.204 Radial†	165.7	22.5	1.5162 µg/L	1.5162 ppb	16:18:17
3	K 766.490 Radial†	1500.0	164.6	67.743 µg/L	67.743 ppb	16:17:57
3	Mg 279.077 IEC†	180.4	8.9	3.6518 µg/L	3.6518 ppb	16:18:17
3	Na 589.592 Radial†	1423.7	195.7	29.652 µg/L	29.652 ppb	16:17:57
3	Sr 421.552†	-280.9	-55.0	-0.1268 µg/L	-0.1268 ppb	16:17:57
3	Sc 361.383	1757181.1	1757181.1	100.12 %		16:19:24
3	Y 371.029	1066334.2	1066334.2	100.22 %		16:19:24
3	Ag 328.068†	3335.3	-115.8	-0.4663 µg/L	-0.4663 ppb	16:19:26
3	As 188.979†	-22.6	-4.9	-1.6980 µg/L	-1.6980 ppb	16:19:46
3	B 249.677†	3210.1	-24.1	-0.3941 µg/L	-0.3941 ppb	16:19:46
3	Ba 233.527†	-133.3	29.1	0.1267 µg/L	0.1267 ppb	16:19:46
3	Be 313.107†	-716.2	70.2	0.0188 µg/L	0.0188 ppb	16:19:26
3	Cd 226.502†	-95.4	14.7	0.1010 µg/L	0.1010 ppb	16:19:46
3	Co 228.616†	-145.4	27.2	0.3675 µg/L	0.3675 ppb	16:19:46
3	Cr 267.716†	174.6	-4.2	-0.0294 µg/L	-0.0294 ppb	16:19:46
3	Cu 324.752†	2840.0	47.7	0.1953 µg/L	0.1953 ppb	16:19:26
3	Mn 257.610†	201.4	25.5	0.0340 µg/L	0.0340 ppb	16:19:46
3	Mo 202.031†	-24.7	10.1	0.3221 µg/L	0.3221 ppb	16:19:46
3	Ni 231.604†	-54.3	23.6	0.2973 µg/L	0.2973 ppb	16:19:46
3	P 214.914†	-12.8	-17.8	-4.2554 µg/L	-4.2554 ppb	16:19:46
3	Pb 220.353†	63.7	-33.3	-2.0332 µg/L	-2.0332 ppb	16:19:46
3	S 181.975 Axial†	86.2	-1.6	-1.2766 µg/L	-1.2766 ppb	16:19:46
3	Sb 206.836†	86.5	8.3	1.0959 µg/L	1.0959 ppb	16:19:46
3	Se 196.026†	16.3	2.7	1.07 µg/L	1.07 ppb	16:19:46
3	SiO2†	1672.5	-82.6	-8.8396 µg/L	-8.8396 ppb	16:19:46
3	Si 251.611†	786.6	-163.0	-2.6400 µg/L	-2.6400 ppb	16:19:46
3	Sn 189.927†	-9.1	-6.5	-0.4517 µg/L	-0.4517 ppb	16:19:46
3	Ti 334.940†	893.3	6.7	0.0093 µg/L	0.0093 ppb	16:19:26
3	Tl 190.801†	-122.2	-5.0	-0.6666 µg/L	-0.6666 ppb	16:19:46
3	U 409.014†	-403.6	-119.4	-7.4646 µg/L	-7.4646 ppb	16:19:26
3	V 292.402†	355.2	44.9	0.2363 µg/L	0.2363 ppb	16:19:26
3	Zn 213.857†	535.3	10.1	0.0605 µg/L	0.0605 ppb	16:19:46

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1756695.3	100.09 %	0.151			0.15%
Sc RADIAL	151394.6	102 %	0.8			0.81%
Y 371.029	1065834.7	100.17 %	0.203			0.20%
Ag 328.068†	-100.8	-0.4096 µg/L	0.23321	-0.4096 ppb	0.23321	56.94%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	13.8	2.8291 µg/L	4.07026	2.8291 ppb	4.07026	143.87%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.9	0.6545 µg/L	2.25498	0.6545 ppb	2.25498	344.51%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-20.9	-0.3411 µg/L	0.34923	-0.3411 ppb	0.34923	102.38%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	20.0	0.0870 µg/L	0.09526	0.0870 ppb	0.09526	109.53%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	162.4	0.0465 µg/L	0.02485	0.0465 ppb	0.02485	53.38%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-87.4	-5.2583 µg/L	0.94599	-5.2583 ppb	0.94599	17.99%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	17.7	0.1213 µg/L	0.04585	0.1213 ppb	0.04585	37.79%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	10.9	0.1468 µg/L	0.24872	0.1468 ppb	0.24872	169.48%

Cr	267.716†	3.9	0.0386 µg/L	0.10032	0.0386 ppb	0.10032	259.61%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-9.1	-0.0438 µg/L	0.24105	-0.0438 ppb	0.24105	550.17%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	24.6	1.6571 µg/L	0.13567	1.6571 ppb	0.13567	8.19%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	233.3	96.014 µg/L	25.1904	96.014 ppb	25.1904	26.24%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	2.9	1.1715 µg/L	3.74683	1.1715 ppb	3.74683	319.83%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	8.6	0.0115 µg/L	0.02091	0.0115 ppb	0.02091	181.76%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	4.5	0.1440 µg/L	0.15766	0.1440 ppb	0.15766	109.48%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	356.1	53.987 µg/L	21.6918	53.987 ppb	21.6918	40.18%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	17.8	0.2244 µg/L	0.14611	0.2244 ppb	0.14611	65.12%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-9.3	-2.2218 µg/L	5.00083	-2.2218 ppb	5.00083	225.08%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-22.1	-1.3497 µg/L	0.79388	-1.3497 ppb	0.79388	58.82%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-5.0	-4.0863 µg/L	2.64049	-4.0863 ppb	2.64049	64.62%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	7.0	0.9242 µg/L	1.28071	0.9242 ppb	1.28071	138.58%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	6.6	2.64 µg/L	3.002	2.64 ppb	3.002	113.67%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		-66.5	-7.1247 µg/L	1.53996	-7.1247 ppb	1.53996	21.61%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	-168.9	-2.7391 µg/L	0.09245	-2.7391 ppb	0.09245	3.38%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	5.4	0.3769 µg/L	0.71929	0.3769 ppb	0.71929	190.85%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-36.8	-0.0848 µg/L	0.11006	-0.0848 ppb	0.11006	129.76%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	-63.8	-0.0612 µg/L	0.07902	-0.0612 ppb	0.07902	129.09%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	2.0	0.2630 µg/L	1.13061	0.2630 ppb	1.13061	429.84%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-116.1	-7.2736 µg/L	8.79754	-7.2736 ppb	8.79754	120.95%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-0.3	-0.0051 µg/L	0.50496	-0.0051 ppb	0.50496	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	4.4	0.0256 µg/L	0.05641	0.0256 ppb	0.05641	220.56%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 18

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/30/2010 16:33:11

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	151139.0	151139.0	102 %		16:33:44
1	Al 396.153Radial†	25196.3	24707.6	5068.1 µg/L	5068.1 ppb	16:33:44
1	Ca 317.933Radial†	86402.3	83812.5	5042.8 µg/L	5042.8 ppb	16:33:44
1	Fe 238.204 Radial†	76395.7	74582.4	5018.6 µg/L	5018.6 ppb	16:33:44
1	K 766.490 Radial†	14135.0	12512.7	5145.6 µg/L	5145.6 ppb	16:33:44
1	Mg 279.077 IEC†	12839.4	12389.5	5090.4 µg/L	5090.4 ppb	16:33:44
1	Na 589.592 Radial†	68823.9	66110.4	10034 µg/L	10034 ppb	16:33:44
1	Sr 421.552†	226964.0	222216.3	512.58 µg/L	512.58 ppb	16:33:42
1	Sc 361.383	1738736.4	1738736.4	99.069 %		16:34:12
1	Y 371.029	1041662.6	1041662.6	97.897 %		16:34:12
1	Ag 328.068†	127423.7	125174.2	503.84 µg/L	503.84 ppb	16:34:12
1	As 188.979†	1389.7	1420.5	502.92 µg/L	502.92 ppb	16:34:32
1	B 249.677†	33453.0	30537.1	496.13 µg/L	496.13 ppb	16:34:12
1	Ba 233.527†	113987.1	115220.6	502.10 µg/L	502.10 ppb	16:34:12
1	Be 313.107†	1653159.2	1669481.5	501.17 µg/L	501.17 ppb	16:34:12
1	Cd 226.502†	72224.6	73013.4	501.02 µg/L	501.02 ppb	16:34:12
1	Co 228.616†	36766.5	37284.5	504.53 µg/L	504.53 ppb	16:34:12
1	Cr 267.716†	59072.0	59448.6	500.77 µg/L	500.77 ppb	16:34:12
1	Cu 324.752†	120311.3	118653.0	501.54 µg/L	501.54 ppb	16:34:12
1	Mn 257.610†	373179.3	376510.9	503.04 µg/L	503.04 ppb	16:34:12
1	Mo 202.031†	15677.5	15859.6	504.94 µg/L	504.94 ppb	16:34:32
1	Ni 231.604†	39543.7	39993.2	503.02 µg/L	503.02 ppb	16:34:12
1	P 214.914†	10442.2	10535.4	2504.3 µg/L	2504.3 ppb	16:34:32
1	Pb 220.353†	8280.1	8260.9	507.41 µg/L	507.41 ppb	16:34:32
1	S 181.975 Axial†	1296.7	1221.2	1005.3 µg/L	1005.3 ppb	16:34:32
1	Sb 206.836†	3864.6	3822.8	502.45 µg/L	502.45 ppb	16:34:32
1	Se 196.026†	1254.0	1252.2	503 µg/L	503 ppb	16:34:32
1	SiO2†	51275.4	50004.2	5328.1 µg/L	5328.1 ppb	16:34:12
1	Si 251.611†	154864.0	155370.8	2504.8 µg/L	2504.8 ppb	16:34:12
1	Sn 189.927†	7172.7	7242.6	503.11 µg/L	503.11 ppb	16:34:32
1	Ti 334.940†	498220.5	502017.3	502.29 µg/L	502.29 ppb	16:34:12
1	Tl 190.801†	3613.1	3764.1	513.40 µg/L	513.40 ppb	16:34:32
1	U 409.014†	7323.5	7676.1	511.26 µg/L	511.26 ppb	16:34:12
1	V 292.402†	93382.5	93950.3	505.51 µg/L	505.51 ppb	16:34:12
1	Zn 213.857†	80909.7	81145.6	499.32 µg/L	499.32 ppb	16:34:12
2	Sc RADIAL	148387.4	148387.4	100 %		16:33:48
2	Al 396.153Radial†	25003.7	24972.6	5122.4 µg/L	5122.4 ppb	16:33:48
2	Ca 317.933Radial†	85779.0	84758.7	5099.7 µg/L	5099.7 ppb	16:33:48
2	Fe 238.204 Radial†	75791.8	75366.3	5071.3 µg/L	5071.3 ppb	16:33:48
2	K 766.490 Radial†	14052.4	12686.8	5217.2 µg/L	5217.2 ppb	16:33:48
2	Mg 279.077 IEC†	12862.3	12645.2	5195.4 µg/L	5195.4 ppb	16:33:48
2	Na 589.592 Radial†	68425.7	66962.0	10163 µg/L	10163 ppb	16:33:48
2	Sr 421.552†	225755.6	225128.9	519.30 µg/L	519.30 ppb	16:33:46
2	Sc 361.383	1732689.3	1732689.3	98.724 %		16:34:35
2	Y 371.029	1037776.0	1037776.0	97.531 %		16:34:35
2	Ag 328.068†	127823.1	126027.7	507.26 µg/L	507.26 ppb	16:34:35
2	As 188.979†	1426.9	1463.0	517.81 µg/L	517.81 ppb	16:34:55
2	B 249.677†	33275.5	30475.1	495.12 µg/L	495.12 ppb	16:34:35
2	Ba 233.527†	113937.6	115572.0	503.63 µg/L	503.63 ppb	16:34:35
2	Be 313.107†	1651670.0	1673796.8	502.47 µg/L	502.47 ppb	16:34:35
2	Cd 226.502†	71981.5	73021.6	501.07 µg/L	501.07 ppb	16:34:35
2	Co 228.616†	36746.8	37394.0	506.02 µg/L	506.02 ppb	16:34:35
2	Cr 267.716†	59002.6	59586.4	501.92 µg/L	501.92 ppb	16:34:35
2	Cu 324.752†	120225.8	118990.3	502.99 µg/L	502.99 ppb	16:34:35
2	Mn 257.610†	372559.0	377197.3	503.95 µg/L	503.95 ppb	16:34:35
2	Mo 202.031†	15857.3	16096.9	512.49 µg/L	512.49 ppb	16:34:55
2	Ni 231.604†	39495.0	40083.2	504.16 µg/L	504.16 ppb	16:34:35
2	P 214.914†	10624.2	10756.4	2557.0 µg/L	2557.0 ppb	16:34:55
2	Pb 220.353†	8415.5	8427.3	517.61 µg/L	517.61 ppb	16:34:55

2	S 181.975 Axial†	1322.3	1251.7	1030.4 µg/L	1030.4 ppb	16:34:55
2	Sb 206.836†	3941.4	3914.2	514.54 µg/L	514.54 ppb	16:34:55
2	Se 196.026†	1272.2	1275.1	513 µg/L	513 ppb	16:34:55
2	SiO2†	51298.9	50208.6	5349.6 µg/L	5349.6 ppb	16:34:35
2	Si 251.611†	154113.0	155155.6	2501.2 µg/L	2501.2 ppb	16:34:35
2	Sn 189.927†	7288.6	7385.3	512.99 µg/L	512.99 ppb	16:34:55
2	Ti 334.940†	497492.0	503034.5	503.30 µg/L	503.30 ppb	16:34:35
2	Tl 190.801†	3651.1	3815.4	520.30 µg/L	520.30 ppb	16:34:55
2	U 409.014†	7472.3	7852.6	522.37 µg/L	522.37 ppb	16:34:35
2	V 292.402†	93254.4	94149.5	506.65 µg/L	506.65 ppb	16:34:35
2	Zn 213.857†	80620.4	81137.6	499.26 µg/L	499.26 ppb	16:34:35
3	Sc RADIAL	149756.5	149756.5	101 %		16:33:53
3	Al 396.153Radial†	25384.2	25120.5	5153.1 µg/L	5153.1 ppb	16:33:53
3	Ca 317.933Radial†	86609.2	84797.0	5102.0 µg/L	5102.0 ppb	16:33:53
3	Fe 238.204 Radial†	76492.1	75367.4	5071.4 µg/L	5071.4 ppb	16:33:53
3	K 766.490 Radial†	13940.1	12448.0	5118.9 µg/L	5118.9 ppb	16:33:53
3	Mg 279.077 IEC†	12945.8	12610.5	5181.1 µg/L	5181.1 ppb	16:33:53
3	Na 589.592 Radial†	68594.3	66505.2	10094 µg/L	10094 ppb	16:33:53
3	Sr 421.552†	224007.7	221347.5	510.58 µg/L	510.58 ppb	16:33:51
3	Sc 361.383	1751130.8	1751130.8	99.775 %		16:34:58
3	Y 371.029	1048597.3	1048597.3	98.548 %		16:34:58
3	Ag 328.068†	129529.0	126373.9	508.64 µg/L	508.64 ppb	16:34:58
3	As 188.979†	1411.3	1432.2	507.05 µg/L	507.05 ppb	16:35:18
3	B 249.677†	33887.0	30733.0	499.31 µg/L	499.31 ppb	16:34:58
3	Ba 233.527†	115619.9	116042.6	505.68 µg/L	505.68 ppb	16:34:58
3	Be 313.107†	1676617.7	1681181.9	504.68 µg/L	504.68 ppb	16:34:58
3	Cd 226.502†	73368.7	73644.1	505.35 µg/L	505.35 ppb	16:34:58
3	Co 228.616†	37328.7	37585.3	508.60 µg/L	508.60 ppb	16:34:58
3	Cr 267.716†	59733.8	59689.9	502.80 µg/L	502.80 ppb	16:34:58
3	Cu 324.752†	121792.3	119277.8	504.19 µg/L	504.19 ppb	16:34:58
3	Mn 257.610†	378088.5	378765.0	506.04 µg/L	506.04 ppb	16:34:58
3	Mo 202.031†	15858.6	15929.1	507.15 µg/L	507.15 ppb	16:35:18
3	Ni 231.604†	40204.0	40372.5	507.79 µg/L	507.79 ppb	16:34:58
3	P 214.914†	10611.8	10630.7	2527.0 µg/L	2527.0 ppb	16:35:18
3	Pb 220.353†	8416.7	8338.7	512.19 µg/L	512.19 ppb	16:35:18
3	S 181.975 Axial†	1321.9	1237.1	1018.4 µg/L	1018.4 ppb	16:35:18
3	Sb 206.836†	3931.6	3862.4	507.66 µg/L	507.66 ppb	16:35:18
3	Se 196.026†	1279.4	1268.7	510 µg/L	510 ppb	16:35:18
3	SiO2†	52016.0	50380.1	5368.1 µg/L	5368.1 ppb	16:34:58
3	Si 251.611†	156602.6	156006.9	2515.0 µg/L	2515.0 ppb	16:34:58
3	Sn 189.927†	7321.0	7340.0	509.86 µg/L	509.86 ppb	16:35:18
3	Ti 334.940†	504195.1	504445.9	504.72 µg/L	504.72 ppb	16:34:58
3	Tl 190.801†	3645.8	3771.1	514.37 µg/L	514.37 ppb	16:35:18
3	U 409.014†	7418.7	7719.2	514.12 µg/L	514.12 ppb	16:34:58
3	V 292.402†	94555.7	94459.0	508.23 µg/L	508.23 ppb	16:34:58
3	Zn 213.857†	81983.3	81643.6	502.38 µg/L	502.38 ppb	16:34:58

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1740852.2	99.189 %	0.5356			0.54%
Sc RADIAL	149761.0	101 %	0.9			0.92%
Y 371.029	1042678.6	97.992 %	0.5152			0.53%
Ag 328.068†	125858.6	506.58 µg/L	2.472	506.58 ppb	2.472	0.49%
QC value within limits for Ag 328.068 Recovery = 101.32%						
Al 396.153Radial†	24933.6	5114.5 µg/L	43.04	5114.5 ppb	43.04	0.84%
QC value within limits for Al 396.153Radial Recovery = 102.29%						
As 188.979†	1438.6	509.26 µg/L	7.683	509.26 ppb	7.683	1.51%
QC value within limits for As 188.979 Recovery = 101.85%						
B 249.677†	30581.7	496.85 µg/L	2.189	496.85 ppb	2.189	0.44%
QC value within limits for B 249.677 Recovery = 99.37%						
Ba 233.527†	115611.7	503.80 µg/L	1.797	503.80 ppb	1.797	0.36%
QC value within limits for Ba 233.527 Recovery = 100.76%						
Be 313.107†	1674820.1	502.77 µg/L	1.776	502.77 ppb	1.776	0.35%
QC value within limits for Be 313.107 Recovery = 100.55%						
Ca 317.933Radial†	84456.1	5081.5 µg/L	33.55	5081.5 ppb	33.55	0.66%
QC value within limits for Ca 317.933Radial Recovery = 101.63%						
Cd 226.502†	73226.4	502.48 µg/L	2.483	502.48 ppb	2.483	0.49%
QC value within limits for Cd 226.502 Recovery = 100.50%						
Co 228.616†	37421.3	506.38 µg/L	2.060	506.38 ppb	2.060	0.41%

QC value within limits for Co 228.616 Recovery = 101.28%							
Cr 267.716†	59575.0	501.83 µg/L	1.019	501.83 ppb	1.019	0.20%	
QC value within limits for Cr 267.716 Recovery = 100.37%							
Cu 324.752†	118973.7	502.91 µg/L	1.326	502.91 ppb	1.326	0.26%	
QC value within limits for Cu 324.752 Recovery = 100.58%							
Fe 238.204 Radial†	75105.4	5053.7 µg/L	30.48	5053.7 ppb	30.48	0.60%	
QC value within limits for Fe 238.204 Radial Recovery = 101.07%							
K 766.490 Radial†	12549.1	5160.6 µg/L	50.82	5160.6 ppb	50.82	0.98%	
QC value within limits for K 766.490 Radial Recovery = 103.21%							
Mg 279.077 IEC†	12548.4	5155.7 µg/L	56.94	5155.7 ppb	56.94	1.10%	
QC value within limits for Mg 279.077 IEC Recovery = 103.11%							
Mn 257.610†	377491.1	504.34 µg/L	1.543	504.34 ppb	1.543	0.31%	
QC value within limits for Mn 257.610 Recovery = 100.87%							
Mo 202.031†	15961.9	508.19 µg/L	3.883	508.19 ppb	3.883	0.76%	
QC value within limits for Mo 202.031 Recovery = 101.64%							
Na 589.592 Radial†	66525.8	10097 µg/L	64.7	10097 ppb	64.7	0.64%	
QC value within limits for Na 589.592 Radial Recovery = 100.97%							
Ni 231.604†	40149.6	504.99 µg/L	2.493	504.99 ppb	2.493	0.49%	
QC value within limits for Ni 231.604 Recovery = 101.00%							
P 214.914†	10640.8	2529.4 µg/L	26.43	2529.4 ppb	26.43	1.05%	
QC value within limits for P 214.914 Recovery = 101.18%							
Pb 220.353†	8342.3	512.41 µg/L	5.103	512.41 ppb	5.103	1.00%	
QC value within limits for Pb 220.353 Recovery = 102.48%							
S 181.975 Axial†	1236.7	1018.0 µg/L	12.54	1018.0 ppb	12.54	1.23%	
QC value within limits for S 181.975 Axial Recovery = 101.80%							
Sb 206.836†	3866.5	508.21 µg/L	6.063	508.21 ppb	6.063	1.19%	
QC value within limits for Sb 206.836 Recovery = 101.64%							
Se 196.026†	1265.3	509 µg/L	4.7	509 ppb	4.7	0.93%	
QC value within limits for Se 196.026 Recovery = 101.75%							
SiO2†	50197.6	5348.6 µg/L	20.05	5348.6 ppb	20.05	0.37%	
QC value within limits for SiO2 Recovery = 100.02%							
Si 251.611†	155511.1	2507.0 µg/L	7.19	2507.0 ppb	7.19	0.29%	
QC value within limits for Si 251.611 Recovery = 100.28%							
Sn 189.927†	7322.7	508.66 µg/L	5.051	508.66 ppb	5.051	0.99%	
QC value within limits for Sn 189.927 Recovery = 101.73%							
Sr 421.552†	222897.6	514.15 µg/L	4.569	514.15 ppb	4.569	0.89%	
QC value within limits for Sr 421.552 Recovery = 102.83%							
Ti 334.940†	503165.9	503.44 µg/L	1.219	503.44 ppb	1.219	0.24%	
QC value within limits for Ti 334.940 Recovery = 100.69%							
Tl 190.801†	3783.5	516.02 µg/L	3.736	516.02 ppb	3.736	0.72%	
QC value within limits for Tl 190.801 Recovery = 103.20%							
U 409.014†	7749.3	515.92 µg/L	5.770	515.92 ppb	5.770	1.12%	
QC value within limits for U 409.014 Recovery = 103.18%							
V 292.402†	94186.3	506.80 µg/L	1.369	506.80 ppb	1.369	0.27%	
QC value within limits for V 292.402 Recovery = 101.36%							
Zn 213.857†	81308.9	500.32 µg/L	1.780	500.32 ppb	1.780	0.36%	
QC value within limits for Zn 213.857 Recovery = 100.06%							
All analyte(s) passed QC.							

Sequence No.: 19

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/30/2010 16:35:27

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	151878.1	151878.1	103 %		16:35:56
1	Al 396.153Radial†	-27.3	36.3	7.4811 µg/L	7.4811 ppb	16:36:16
1	Ca 317.933Radial†	686.6	-29.7	-1.7857 µg/L	-1.7857 ppb	16:36:16
1	Fe 238.204 Radial†	172.4	27.1	1.8263 µg/L	1.8263 ppb	16:36:16
1	K 766.490 Radial†	1493.5	140.9	57.964 µg/L	57.964 ppb	16:35:56
1	Mg 279.077 IEC†	188.2	14.4	5.9196 µg/L	5.9196 ppb	16:36:16
1	Na 589.592 Radial†	1596.6	347.4	52.696 µg/L	52.696 ppb	16:35:56
1	Sr 421.552†	-187.5	39.2	0.0904 µg/L	0.0904 ppb	16:35:56
1	Sc 361.383	1775966.4	1775966.4	101.19 %		16:37:18
1	Y 371.029	1075816.3	1075816.3	101.11 %		16:37:18
1	Ag 328.068†	3637.8	148.0	0.5819 µg/L	0.5819 ppb	16:37:20
1	As 188.979†	-2.5	15.2	5.2981 µg/L	5.2981 ppb	16:37:40
1	B 249.677†	3304.0	34.8	0.5663 µg/L	0.5663 ppb	16:37:40
1	Ba 233.527†	-170.2	-6.0	-0.0264 µg/L	-0.0264 ppb	16:37:40
1	Be 313.107†	-529.3	262.5	0.0783 µg/L	0.0783 ppb	16:37:20
1	Cd 226.502†	-78.1	32.8	0.2250 µg/L	0.2250 ppb	16:37:40
1	Co 228.616†	-156.5	17.7	0.2396 µg/L	0.2396 ppb	16:37:40
1	Cr 267.716†	134.1	-46.0	-0.3871 µg/L	-0.3871 ppb	16:37:40
1	Cu 324.752†	2726.1	-94.9	-0.4005 µg/L	-0.4005 ppb	16:37:20
1	Mn 257.610†	181.0	3.3	0.0042 µg/L	0.0042 ppb	16:37:40
1	Mo 202.031†	-31.8	3.4	0.1071 µg/L	0.1071 ppb	16:37:40
1	Ni 231.604†	-78.8	0.0	0.0002 µg/L	0.0002 ppb	16:37:40
1	P 214.914†	11.7	6.6	1.5795 µg/L	1.5795 ppb	16:37:40
1	Pb 220.353†	104.7	6.5	0.4021 µg/L	0.4021 ppb	16:37:40
1	S 181.975 Axial†	97.8	9.0	7.3534 µg/L	7.3534 ppb	16:37:40
1	Sb 206.836†	78.3	-0.7	-0.0809 µg/L	-0.0809 ppb	16:37:40
1	Se 196.026†	26.0	12.1	4.86 µg/L	4.86 ppb	16:37:40
1	SiO2†	1712.3	-61.0	-6.5292 µg/L	-6.5292 ppb	16:37:40
1	Si 251.611†	932.1	-27.5	-0.4477 µg/L	-0.4477 ppb	16:37:20
1	Sn 189.927†	-1.2	1.4	0.0971 µg/L	0.0971 ppb	16:37:40
1	Ti 334.940†	836.6	-58.8	-0.0587 µg/L	-0.0587 ppb	16:37:20
1	Tl 190.801†	-101.3	17.0	2.2738 µg/L	2.2738 ppb	16:37:40
1	U 409.014†	-310.8	-23.4	-1.4888 µg/L	-1.4888 ppb	16:37:20
1	V 292.402†	243.1	-69.6	-0.3711 µg/L	-0.3711 ppb	16:37:20
1	Zn 213.857†	533.2	2.3	0.0148 µg/L	0.0148 ppb	16:37:40
2	Sc RADIAL	150766.1	150766.1	102 %		16:36:18
2	Al 396.153Radial†	-29.1	34.4	7.0870 µg/L	7.0870 ppb	16:36:38
2	Ca 317.933Radial†	682.2	-29.1	-1.7514 µg/L	-1.7514 ppb	16:36:38
2	Fe 238.204 Radial†	166.3	22.4	1.5048 µg/L	1.5048 ppb	16:36:38
2	K 766.490 Radial†	1525.1	182.6	75.152 µg/L	75.152 ppb	16:36:18
2	Mg 279.077 IEC†	179.6	7.3	2.9938 µg/L	2.9938 ppb	16:36:38
2	Na 589.592 Radial†	1371.5	138.2	20.914 µg/L	20.914 ppb	16:36:18
2	Sr 421.552†	-190.0	35.3	0.0815 µg/L	0.0815 ppb	16:36:18
2	Sc 361.383	1781472.1	1781472.1	101.50 %		16:37:42
2	Y 371.029	1078812.6	1078812.6	101.39 %		16:37:42
2	Ag 328.068†	3322.4	-173.9	-0.6936 µg/L	-0.6936 ppb	16:37:44
2	As 188.979†	-9.9	7.9	2.7584 µg/L	2.7584 ppb	16:38:05
2	B 249.677†	3225.9	-52.2	-0.8523 µg/L	-0.8523 ppb	16:38:05
2	Ba 233.527†	-165.6	-1.0	-0.0040 µg/L	-0.0040 ppb	16:38:05
2	Be 313.107†	-662.6	132.8	0.0378 µg/L	0.0378 ppb	16:37:44
2	Cd 226.502†	-107.6	4.0	0.0272 µg/L	0.0272 ppb	16:38:05
2	Co 228.616†	-153.4	21.3	0.2875 µg/L	0.2875 ppb	16:38:05
2	Cr 267.716†	167.4	-13.7	-0.1095 µg/L	-0.1095 ppb	16:38:05
2	Cu 324.752†	2776.0	-54.1	-0.2330 µg/L	-0.2330 ppb	16:37:44
2	Mn 257.610†	220.5	41.7	0.0556 µg/L	0.0556 ppb	16:38:05
2	Mo 202.031†	-36.8	-1.5	-0.0478 µg/L	-0.0478 ppb	16:38:05
2	Ni 231.604†	-80.5	-1.4	-0.0180 µg/L	-0.0180 ppb	16:38:05
2	P 214.914†	12.5	7.3	1.7603 µg/L	1.7603 ppb	16:38:05
2	Pb 220.353†	90.3	-8.0	-0.4821 µg/L	-0.4821 ppb	16:38:05

2	S 181.975 Axial†	91.8	2.7	2.2316 µg/L	2.2316 ppb	16:38:05
2	Sb 206.836†	83.6	4.3	0.5702 µg/L	0.5702 ppb	16:38:05
2	Se 196.026†	1.8	-11.8	-4.75 µg/L	-4.75 ppb	16:38:05
2	SiO2†	1691.8	-86.4	-9.2496 µg/L	-9.2496 ppb	16:38:05
2	Si 251.611†	787.2	-173.1	-2.8052 µg/L	-2.8052 ppb	16:37:44
2	Sn 189.927†	7.4	9.9	0.6835 µg/L	0.6835 ppb	16:38:05
2	Ti 334.940†	827.4	-70.5	-0.0680 µg/L	-0.0680 ppb	16:37:44
2	Tl 190.801†	-117.6	1.3	0.1723 µg/L	0.1723 ppb	16:38:05
2	U 409.014†	-399.5	-109.8	-6.8488 µg/L	-6.8488 ppb	16:37:44
2	V 292.402†	412.9	96.9	0.5089 µg/L	0.5089 ppb	16:37:44
2	Zn 213.857†	530.6	-1.8	-0.0109 µg/L	-0.0109 ppb	16:38:05
3	Sc RADIAL	151659.3	151659.3	103 %		16:36:40
3	Al 396.153Radial†	-28.3	35.3	7.2531 µg/L	7.2531 ppb	16:37:00
3	Ca 317.933Radial†	646.0	-68.3	-4.1086 µg/L	-4.1086 ppb	16:37:00
3	Fe 238.204 Radial†	199.0	53.3	3.5851 µg/L	3.5851 ppb	16:37:00
3	K 766.490 Radial†	1519.9	168.8	69.446 µg/L	69.446 ppb	16:36:40
3	Mg 279.077 IEC†	179.2	5.9	2.4278 µg/L	2.4278 ppb	16:37:00
3	Na 589.592 Radial†	1454.5	211.2	32.007 µg/L	32.007 ppb	16:36:40
3	Sr 421.552†	-167.3	58.5	0.1351 µg/L	0.1351 ppb	16:36:40
3	Sc 361.383	1777415.3	1777415.3	101.27 %		16:38:07
3	Y 371.029	1077075.4	1077075.4	101.22 %		16:38:07
3	Ag 328.068†	3547.2	55.6	0.2339 µg/L	0.2339 ppb	16:38:09
3	As 188.979†	-14.0	3.8	1.3299 µg/L	1.3299 ppb	16:38:29
3	B 249.677†	3244.0	-27.1	-0.4430 µg/L	-0.4430 ppb	16:38:29
3	Ba 233.527†	-186.1	-21.6	-0.0937 µg/L	-0.0937 ppb	16:38:29
3	Be 313.107†	-746.5	48.4	0.0159 µg/L	0.0159 ppb	16:38:09
3	Cd 226.502†	-82.7	28.3	0.1941 µg/L	0.1941 ppb	16:38:29
3	Co 228.616†	-162.0	12.5	0.1686 µg/L	0.1686 ppb	16:38:29
3	Cr 267.716†	143.6	-36.8	-0.3130 µg/L	-0.3130 ppb	16:38:29
3	Cu 324.752†	2855.6	30.7	0.1338 µg/L	0.1338 ppb	16:38:09
3	Mn 257.610†	204.7	26.6	0.0354 µg/L	0.0354 ppb	16:38:29
3	Mo 202.031†	-21.9	13.1	0.4182 µg/L	0.4182 ppb	16:38:29
3	Ni 231.604†	-69.6	9.2	0.1151 µg/L	0.1151 ppb	16:38:29
3	P 214.914†	1.4	-3.6	-0.8646 µg/L	-0.8646 ppb	16:38:29
3	Pb 220.353†	84.4	-13.6	-0.8367 µg/L	-0.8367 ppb	16:38:29
3	S 181.975 Axial†	90.3	1.5	1.2325 µg/L	1.2325 ppb	16:38:29
3	Sb 206.836†	80.7	1.6	0.2186 µg/L	0.2186 ppb	16:38:29
3	Se 196.026†	8.3	-5.3	-2.13 µg/L	-2.13 ppb	16:38:29
3	SiO2†	1696.0	-78.5	-8.4316 µg/L	-8.4316 ppb	16:38:29
3	Si 251.611†	738.0	-219.9	-3.5748 µg/L	-3.5748 ppb	16:38:09
3	Sn 189.927†	18.0	20.3	1.4069 µg/L	1.4069 ppb	16:38:29
3	Ti 334.940†	846.9	-49.3	-0.0514 µg/L	-0.0514 ppb	16:38:09
3	Tl 190.801†	-120.1	-1.5	-0.1973 µg/L	-0.1973 ppb	16:38:29
3	U 409.014†	-216.0	70.5	4.4517 µg/L	4.4517 ppb	16:38:09
3	V 292.402†	433.2	117.9	0.6318 µg/L	0.6318 ppb	16:38:09
3	Zn 213.857†	526.7	-4.5	-0.0291 µg/L	-0.0291 ppb	16:38:29

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1778284.6	101.32 %	0.163			0.16%
Sc RADIAL	151434.5	102 %	0.4			0.39%
Y 371.029	1077234.8	101.24 %	0.141			0.14%
Ag 328.068†	9.9	0.0407 µg/L	0.65930	0.0407 ppb	0.65930	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	35.3	7.2737 µg/L	0.19788	7.2737 ppb	0.19788	2.72%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	9.0	3.1288 µg/L	2.00985	3.1288 ppb	2.00985	64.24%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-14.9	-0.2430 µg/L	0.73013	-0.2430 ppb	0.73013	300.47%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-9.5	-0.0414 µg/L	0.04672	-0.0414 ppb	0.04672	112.91%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	147.9	0.0440 µg/L	0.03169	0.0440 ppb	0.03169	72.04%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-42.4	-2.5486 µg/L	1.35112	-2.5486 ppb	1.35112	53.02%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	21.7	0.1488 µg/L	0.10645	0.1488 ppb	0.10645	71.55%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	17.2	0.2319 µg/L	0.05984	0.2319 ppb	0.05984	25.81%



QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-32.2	-0.2698 µg/L	0.14373	-0.2698 ppb	0.14373	53.27%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-39.4	-0.1666 µg/L	0.27327	-0.1666 ppb	0.27327	164.06%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	34.3	2.3054 µg/L	1.11984	2.3054 ppb	1.11984	48.57%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	164.1	67.521 µg/L	8.7540	67.521 ppb	8.7540	12.96%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	9.2	3.7804 µg/L	1.87409	3.7804 ppb	1.87409	49.57%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	23.9	0.0317 µg/L	0.02590	0.0317 ppb	0.02590	81.64%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	5.0	0.1592 µg/L	0.23731	0.1592 ppb	0.23731	149.11%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	232.2	35.206 µg/L	16.1307	35.206 ppb	16.1307	45.82%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	2.6	0.0324 µg/L	0.07220	0.0324 ppb	0.07220	222.64%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	3.4	0.8250 µg/L	1.46608	0.8250 ppb	1.46608	177.70%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-5.0	-0.3056 µg/L	0.63802	-0.3056 ppb	0.63802	208.80%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	4.4	3.6058 µg/L	3.28371	3.6058 ppb	3.28371	91.07%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	1.7	0.2360 µg/L	0.32585	0.2360 ppb	0.32585	138.10%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-1.7	-0.675 µg/L	4.9659	-0.675 ppb	4.9659	736.21%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-75.3	-8.0701 µg/L	1.39574	-8.0701 ppb	1.39574	17.30%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	-140.2	-2.2759 µg/L	1.62935	-2.2759 ppb	1.62935	71.59%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	10.5	0.7292 µg/L	0.65610	0.7292 ppb	0.65610	89.98%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	44.3	0.1023 µg/L	0.02870	0.1023 ppb	0.02870	28.05%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-59.5	-0.0594 µg/L	0.00835	-0.0594 ppb	0.00835	14.06%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	5.6	0.7496 µg/L	1.33288	0.7496 ppb	1.33288	177.82%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-20.9	-1.2953 µg/L	5.65273	-1.2953 ppb	5.65273	436.40%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	48.4	0.2565 µg/L	0.54704	0.2565 ppb	0.54704	213.25%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-1.3	-0.0084 µg/L	0.02204	-0.0084 ppb	0.02204	262.12%	
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

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Analysis Begun

Start Time: 3/30/2010 16:57:39

Plasma On Time: 3/29/2010 18:07:58

Logged In Analyst: optima4

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C0022701Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\033010.sif

Batch ID:

Results Data Set: 033010B

Results Library: C:\pe\optima4\Results\Results.mdb  
=====

Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/30/2010 16:57:41

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:  
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## Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	149199.2	149199.2	101 %		16:58:14
1	Al 396.153Radial†	25133.4	24965.6	5121.0 µg/L	5121.0 ppb	16:58:14
1	Ca 317.933Radial†	86291.1	84801.1	5102.3 µg/L	5102.3 ppb	16:58:14
1	Fe 238.204 Radial†	76166.0	75326.2	5068.6 µg/L	5068.6 ppb	16:58:14
1	K 766.490 Radial†	13784.3	12344.9	5076.5 µg/L	5076.5 ppb	16:58:14
1	Mg 279.077 IEC†	13036.4	12747.9	5237.5 µg/L	5237.5 ppb	16:58:14
1	Na 589.592 Radial†	68524.1	66688.5	10122 µg/L	10122 ppb	16:58:14
1	Sr 421.552†	222273.3	220454.9	508.52 µg/L	508.52 ppb	16:58:12
1	Sc 361.383	1729437.6	1729437.6	98.539 %		16:58:26
1	Y 371.029	1036324.1	1036324.1	97.395 %		16:58:26
1	Ag 328.068†	127198.8	125637.5	505.71 µg/L	505.71 ppb	16:58:26
1	As 188.979†	1397.3	1435.7	508.27 µg/L	508.27 ppb	16:58:46
1	B 249.677†	33342.8	30606.8	497.26 µg/L	497.26 ppb	16:58:26
1	Ba 233.527†	113491.6	115336.4	502.60 µg/L	502.60 ppb	16:58:26
1	Be 313.107†	1652988.4	1678280.3	503.82 µg/L	503.82 ppb	16:58:26
1	Cd 226.502†	72383.9	73567.0	504.82 µg/L	504.82 ppb	16:58:26
1	Co 228.616†	36695.5	37411.9	506.26 µg/L	506.26 ppb	16:58:26
1	Cr 267.716†	58963.9	59659.5	502.53 µg/L	502.53 ppb	16:58:26
1	Cu 324.752†	119751.4	118737.8	501.93 µg/L	501.93 ppb	16:58:26
1	Mn 257.610†	372127.1	377468.5	504.31 µg/L	504.31 ppb	16:58:26
1	Mo 202.031†	15742.5	16010.6	509.75 µg/L	509.75 ppb	16:58:46
1	Ni 231.604†	39503.2	40166.7	505.21 µg/L	505.21 ppb	16:58:26
1	P 214.914†	10540.5	10691.7	2541.6 µg/L	2541.6 ppb	16:58:46
1	Pb 220.353†	8315.2	8341.5	512.35 µg/L	512.35 ppb	16:58:46
1	S 181.975 Axial†	1305.5	1237.2	1018.5 µg/L	1018.5 ppb	16:58:46
1	Sb 206.836†	3903.1	3882.9	510.37 µg/L	510.37 ppb	16:58:46
1	Se 196.026†	1270.8	1276.1	513 µg/L	513 ppb	16:58:46
1	SiO2†	51353.9	50362.1	5366.1 µg/L	5366.1 ppb	16:58:26
1	Si 251.611†	154170.2	155507.2	2506.9 µg/L	2506.9 ppb	16:58:26
1	Sn 189.927†	7252.0	7362.1	511.38 µg/L	511.38 ppb	16:58:46
1	Ti 334.940†	496039.9	502508.3	502.77 µg/L	502.77 ppb	16:58:26
1	Tl 190.801†	3625.2	3796.0	517.69 µg/L	517.69 ppb	16:58:46
1	U 409.014†	7556.6	7952.4	528.59 µg/L	528.59 ppb	16:58:26
1	V 292.402†	92970.0	94038.4	506.04 µg/L	506.04 ppb	16:58:26
1	Zn 213.857†	80596.8	81267.1	500.06 µg/L	500.06 ppb	16:58:26
2	Sc RADIAL	148989.5	148989.5	101 %		16:58:18
2	Al 396.153Radial†	25062.8	24930.6	5113.9 µg/L	5113.9 ppb	16:58:18
2	Ca 317.933Radial†	86125.4	84757.0	5099.6 µg/L	5099.6 ppb	16:58:18
2	Fe 238.204 Radial†	76239.8	75505.7	5080.7 µg/L	5080.7 ppb	16:58:18
2	K 766.490 Radial†	13841.1	12420.6	5107.7 µg/L	5107.7 ppb	16:58:18
2	Mg 279.077 IEC†	12962.5	12692.8	5214.9 µg/L	5214.9 ppb	16:58:18
2	Na 589.592 Radial†	68179.9	66442.6	10085 µg/L	10085 ppb	16:58:18
2	Sr 421.552†	224560.5	223034.3	514.47 µg/L	514.47 ppb	16:58:16
2	Sc 361.383	1722198.8	1722198.8	98.127 %		16:58:50
2	Y 371.029	1031025.1	1031025.1	96.897 %		16:58:50
2	Ag 328.068†	126600.1	125570.0	505.41 µg/L	505.41 ppb	16:58:50
2	As 188.979†	1403.2	1447.6	512.43 µg/L	512.43 ppb	16:59:10

2	B 249.677†	33328.8	30734.7	499.34 µg/L	499.34 ppb	16:58:50
2	Ba 233.527†	113413.5	115740.8	504.36 µg/L	504.36 ppb	16:58:50
2	Be 313.107†	1647320.5	1679555.1	504.19 µg/L	504.19 ppb	16:58:50
2	Cd 226.502†	72125.6	73612.6	505.13 µg/L	505.13 ppb	16:58:50
2	Co 228.616†	36642.3	37514.2	507.64 µg/L	507.64 ppb	16:58:50
2	Cr 267.716†	58539.2	59478.2	501.02 µg/L	501.02 ppb	16:58:50
2	Cu 324.752†	119171.5	118657.7	501.57 µg/L	501.57 ppb	16:58:50
2	Mn 257.610†	370900.9	377806.2	504.76 µg/L	504.76 ppb	16:58:50
2	Mo 202.031†	15642.4	15975.8	508.64 µg/L	508.64 ppb	16:59:10
2	Ni 231.604†	39353.6	40182.8	505.41 µg/L	505.41 ppb	16:58:50
2	P 214.914†	10458.6	10653.2	2532.4 µg/L	2532.4 ppb	16:59:10
2	Pb 220.353†	8291.2	8352.5	513.04 µg/L	513.04 ppb	16:59:10
2	S 181.975 Axial†	1304.5	1241.7	1022.1 µg/L	1022.1 ppb	16:59:10
2	Sb 206.836†	3865.5	3861.2	507.54 µg/L	507.54 ppb	16:59:10
2	Se 196.026†	1274.2	1284.9	517 µg/L	517 ppb	16:59:10
2	SiO2†	51206.2	50430.6	5373.5 µg/L	5373.5 ppb	16:58:50
2	Si 251.611†	154157.0	156151.3	2517.4 µg/L	2517.4 ppb	16:58:50
2	Sn 189.927†	7197.1	7337.0	509.65 µg/L	509.65 ppb	16:59:10
2	Ti 334.940†	494104.3	502651.7	502.92 µg/L	502.92 ppb	16:58:50
2	Tl 190.801†	3603.4	3789.3	516.79 µg/L	516.79 ppb	16:59:10
2	U 409.014†	7104.1	7523.4	501.74 µg/L	501.74 ppb	16:58:50
2	V 292.402†	92620.1	94078.5	506.21 µg/L	506.21 ppb	16:58:50
2	Zn 213.857†	80704.2	81720.3	502.87 µg/L	502.87 ppb	16:58:50
3	Sc RADIAL	150443.3	150443.3	102 %		16:58:22
3	Al 396.153Radial†	25179.7	24805.1	5087.6 µg/L	5087.6 ppb	16:58:22
3	Ca 317.933Radial†	86584.9	84382.8	5077.1 µg/L	5077.1 ppb	16:58:22
3	Fe 238.204 Radial†	76433.0	74964.6	5044.3 µg/L	5044.3 ppb	16:58:22
3	K 766.490 Radial†	13825.6	12272.6	5046.8 µg/L	5046.8 ppb	16:58:22
3	Mg 279.077 IEC†	12960.3	12566.4	5163.3 µg/L	5163.3 ppb	16:58:22
3	Na 589.592 Radial†	68734.3	66333.7	10068 µg/L	10068 ppb	16:58:22
3	Sr 421.552†	224638.4	220957.7	509.68 µg/L	509.68 ppb	16:58:20
3	Sc 361.383	1703789.7	1703789.7	97.078 %		16:59:13
3	Y 371.029	1020310.6	1020310.6	95.890 %		16:59:13
3	Ag 328.068†	125841.1	126182.1	507.85 µg/L	507.85 ppb	16:59:13
3	As 188.979†	1399.0	1458.8	516.35 µg/L	516.35 ppb	16:59:33
3	B 249.677†	32938.4	30699.6	498.77 µg/L	498.77 ppb	16:59:13
3	Ba 233.527†	112303.0	115845.7	504.83 µg/L	504.83 ppb	16:59:13
3	Be 313.107†	1628078.9	1677873.0	503.68 µg/L	503.68 ppb	16:59:13
3	Cd 226.502†	71318.3	73575.2	504.88 µg/L	504.88 ppb	16:59:13
3	Co 228.616†	36250.4	37514.0	507.64 µg/L	507.64 ppb	16:59:13
3	Cr 267.716†	58103.9	59674.4	502.68 µg/L	502.68 ppb	16:59:13
3	Cu 324.752†	118475.5	119252.9	504.07 µg/L	504.07 ppb	16:59:13
3	Mn 257.610†	367522.6	378410.2	505.57 µg/L	505.57 ppb	16:59:13
3	Mo 202.031†	15766.0	16275.3	518.16 µg/L	518.16 ppb	16:59:33
3	Ni 231.604†	39046.2	40299.5	506.88 µg/L	506.88 ppb	16:59:13
3	P 214.914†	10539.3	10851.5	2579.6 µg/L	2579.6 ppb	16:59:33
3	Pb 220.353†	8372.9	8528.0	523.81 µg/L	523.81 ppb	16:59:33
3	S 181.975 Axial†	1311.9	1263.7	1040.2 µg/L	1040.2 ppb	16:59:33
3	Sb 206.836†	3881.3	3920.0	515.38 µg/L	515.38 ppb	16:59:33
3	Se 196.026†	1263.3	1287.7	518 µg/L	518 ppb	16:59:33
3	SiO2†	50416.9	50181.4	5346.4 µg/L	5346.4 ppb	16:59:13
3	Si 251.611†	151913.4	155537.7	2507.2 µg/L	2507.2 ppb	16:59:13
3	Sn 189.927†	7245.0	7465.6	518.55 µg/L	518.55 ppb	16:59:33
3	Ti 334.940†	489941.5	503804.1	504.08 µg/L	504.08 ppb	16:59:13
3	Tl 190.801†	3643.4	3870.2	527.67 µg/L	527.67 ppb	16:59:33
3	U 409.014†	6984.8	7478.9	499.01 µg/L	499.01 ppb	16:59:13
3	V 292.402†	91797.2	94250.7	507.24 µg/L	507.24 ppb	16:59:13
3	Zn 213.857†	79534.1	81403.7	500.90 µg/L	500.90 ppb	16:59:13

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1718475.4	97.915 %	0.7534			0.77%
Sc RADIAL	149544.0	101 %	0.5			0.53%
Y 371.029	1029219.9	96.727 %	0.7667			0.79%
Ag 328.068†	125796.5	506.32 µg/L	1.332	506.32 ppb	1.332	0.26%
QC value within limits for Ag 328.068 Recovery = 101.26%						
Al 396.153Radial†	24900.4	5107.5 µg/L	17.62	5107.5 ppb	17.62	0.34%
QC value within limits for Al 396.153Radial Recovery = 102.15%						
As 188.979†	1447.4	512.35 µg/L	4.040	512.35 ppb	4.040	0.79%

QC value within limits for As 188.979 Recovery = 102.47%							
B 249.677†	30680.4	498.46 µg/L	1.075	498.46 ppb	1.075	0.22%	
QC value within limits for B 249.677 Recovery = 99.69%							
Ba 233.527†	115641.0	503.93 µg/L	1.172	503.93 ppb	1.172	0.23%	
QC value within limits for Ba 233.527 Recovery = 100.79%							
Be 313.107†	1678569.5	503.90 µg/L	0.262	503.90 ppb	0.262	0.05%	
QC value within limits for Be 313.107 Recovery = 100.78%							
Ca 317.933Radial†	84647.0	5093.0 µg/L	13.83	5093.0 ppb	13.83	0.27%	
QC value within limits for Ca 317.933Radial Recovery = 101.86%							
Cd 226.502†	73584.9	504.94 µg/L	0.166	504.94 ppb	0.166	0.03%	
QC value within limits for Cd 226.502 Recovery = 100.99%							
Co 228.616†	37480.1	507.18 µg/L	0.799	507.18 ppb	0.799	0.16%	
QC value within limits for Co 228.616 Recovery = 101.44%							
Cr 267.716†	59604.0	502.08 µg/L	0.915	502.08 ppb	0.915	0.18%	
QC value within limits for Cr 267.716 Recovery = 100.42%							
Cu 324.752†	118882.8	502.52 µg/L	1.352	502.52 ppb	1.352	0.27%	
QC value within limits for Cu 324.752 Recovery = 100.50%							
Fe 238.204 Radial†	75265.5	5064.5 µg/L	18.55	5064.5 ppb	18.55	0.37%	
QC value within limits for Fe 238.204 Radial Recovery = 101.29%							
K 766.490 Radial†	12346.1	5077.0 µg/L	30.44	5077.0 ppb	30.44	0.60%	
QC value within limits for K 766.490 Radial Recovery = 101.54%							
Mg 279.077 IEC†	12669.1	5205.2 µg/L	38.04	5205.2 ppb	38.04	0.73%	
QC value within limits for Mg 279.077 IEC Recovery = 104.10%							
Mn 257.610†	377895.0	504.88 µg/L	0.639	504.88 ppb	0.639	0.13%	
QC value within limits for Mn 257.610 Recovery = 100.98%							
Mo 202.031†	16087.2	512.18 µg/L	5.210	512.18 ppb	5.210	1.02%	
QC value within limits for Mo 202.031 Recovery = 102.44%							
Na 589.592 Radial†	66488.3	10092 µg/L	27.6	10092 ppb	27.6	0.27%	
QC value within limits for Na 589.592 Radial Recovery = 100.92%							
Ni 231.604†	40216.3	505.83 µg/L	0.911	505.83 ppb	0.911	0.18%	
QC value within limits for Ni 231.604 Recovery = 101.17%							
P 214.914†	10732.2	2551.2 µg/L	25.06	2551.2 ppb	25.06	0.98%	
QC value within limits for P 214.914 Recovery = 102.05%							
Pb 220.353†	8407.3	516.40 µg/L	6.426	516.40 ppb	6.426	1.24%	
QC value within limits for Pb 220.353 Recovery = 103.28%							
S 181.975 Axial†	1247.5	1026.9 µg/L	11.66	1026.9 ppb	11.66	1.14%	
QC value within limits for S 181.975 Axial Recovery = 102.69%							
Sb 206.836†	3888.0	511.10 µg/L	3.970	511.10 ppb	3.970	0.78%	
QC value within limits for Sb 206.836 Recovery = 102.22%							
Se 196.026†	1282.9	516 µg/L	2.4	516 ppb	2.4	0.47%	
QC value within limits for Se 196.026 Recovery = 103.15%							
SiO2†	50324.7	5362.0 µg/L	13.99	5362.0 ppb	13.99	0.26%	
QC value within limits for SiO2 Recovery = 100.27%							
Si 251.611†	155732.1	2510.5 µg/L	5.94	2510.5 ppb	5.94	0.24%	
QC value within limits for Si 251.611 Recovery = 100.42%							
Sn 189.927†	7388.2	513.19 µg/L	4.721	513.19 ppb	4.721	0.92%	
QC value within limits for Sn 189.927 Recovery = 102.64%							
Sr 421.552†	221482.3	510.89 µg/L	3.154	510.89 ppb	3.154	0.62%	
QC value within limits for Sr 421.552 Recovery = 102.18%							
Ti 334.940†	502988.1	503.26 µg/L	0.719	503.26 ppb	0.719	0.14%	
QC value within limits for Ti 334.940 Recovery = 100.65%							
Tl 190.801†	3818.5	520.72 µg/L	6.041	520.72 ppb	6.041	1.16%	
QC value within limits for Tl 190.801 Recovery = 104.14%							
U 409.014†	7651.6	509.78 µg/L	16.349	509.78 ppb	16.349	3.21%	
QC value within limits for U 409.014 Recovery = 101.96%							
V 292.402†	94122.5	506.50 µg/L	0.646	506.50 ppb	0.646	0.13%	
QC value within limits for V 292.402 Recovery = 101.30%							
Zn 213.857†	81463.7	501.27 µg/L	1.442	501.27 ppb	1.442	0.29%	
QC value within limits for Zn 213.857 Recovery = 100.25%							
All analyte(s) passed QC.							

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/30/2010 16:59:41

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	149825.5	149825.5	101 %		17:00:10
1	Al 396.153Radial†	-41.4	22.0	4.5262 µg/L	4.5262 ppb	17:00:30
1	Ca 317.933Radial†	670.9	-36.0	-2.1668 µg/L	-2.1668 ppb	17:00:30
1	Fe 238.204 Radial†	145.6	2.9	0.1962 µg/L	0.1962 ppb	17:00:30
1	K 766.490 Radial†	1426.9	95.1	39.120 µg/L	39.120 ppb	17:00:10
1	Mg 279.077 IEC†	176.4	5.2	2.1463 µg/L	2.1463 ppb	17:00:30
1	Na 589.592 Radial†	1352.8	128.1	19.422 µg/L	19.422 ppb	17:00:10
1	Sr 421.552†	-227.6	-3.0	-0.0068 µg/L	-0.0068 ppb	17:00:10
1	Sc 361.383	1764835.2	1764835.2	100.56 %		17:01:32
1	Y 371.029	1069900.1	1069900.1	100.55 %		17:01:32
1	Ag 328.068†	3768.3	300.4	1.1888 µg/L	1.1888 ppb	17:01:34
1	As 188.979†	-11.1	6.7	2.3224 µg/L	2.3224 ppb	17:01:54
1	B 249.677†	3263.2	14.8	0.2419 µg/L	0.2419 ppb	17:01:54
1	Ba 233.527†	-157.4	5.6	0.0243 µg/L	0.0243 ppb	17:01:54
1	Be 313.107†	-752.2	37.6	0.0106 µg/L	0.0106 ppb	17:01:34
1	Cd 226.502†	-106.0	4.6	0.0315 µg/L	0.0315 ppb	17:01:54
1	Co 228.616†	-180.5	-7.1	-0.0954 µg/L	-0.0954 ppb	17:01:54
1	Cr 267.716†	189.3	9.7	0.0836 µg/L	0.0836 ppb	17:01:54
1	Cu 324.752†	2837.6	32.9	0.1369 µg/L	0.1369 ppb	17:01:34
1	Mn 257.610†	168.5	-8.0	-0.0108 µg/L	-0.0108 ppb	17:01:54
1	Mo 202.031†	-27.2	7.7	0.2445 µg/L	0.2445 ppb	17:01:54
1	Ni 231.604†	-71.9	6.4	0.0807 µg/L	0.0807 ppb	17:01:54
1	P 214.914†	26.2	21.1	5.0333 µg/L	5.0333 ppb	17:01:54
1	Pb 220.353†	90.4	-7.1	-0.4327 µg/L	-0.4327 ppb	17:01:54
1	S 181.975 Axial†	89.0	0.8	0.6968 µg/L	0.6968 ppb	17:01:54
1	Sb 206.836†	80.1	1.6	0.2148 µg/L	0.2148 ppb	17:01:54
1	Se 196.026†	12.1	-1.5	-0.605 µg/L	-0.605 ppb	17:01:54
1	SiO2†	1691.2	-71.3	-7.6443 µg/L	-7.6443 ppb	17:01:54
1	Si 251.611†	802.7	-150.3	-2.4405 µg/L	-2.4405 ppb	17:01:54
1	Sn 189.927†	5.6	8.1	0.5622 µg/L	0.5622 ppb	17:01:54
1	Ti 334.940†	648.3	-240.9	-0.2406 µg/L	-0.2406 ppb	17:01:34
1	Tl 190.801†	-113.4	4.3	0.5811 µg/L	0.5811 ppb	17:01:54
1	U 409.014†	-322.0	-36.5	-2.2948 µg/L	-2.2948 ppb	17:01:34
1	V 292.402†	274.6	-36.7	-0.1933 µg/L	-0.1933 ppb	17:01:34
1	Zn 213.857†	538.9	11.3	0.0695 µg/L	0.0695 ppb	17:01:54
2	Sc RADIAL	154358.9	154358.9	104 %		17:00:32
2	Al 396.153Radial†	-68.9	-3.1	-0.6411 µg/L	-0.6411 ppb	17:00:52
2	Ca 317.933Radial†	649.5	-75.9	-4.5693 µg/L	-4.5693 ppb	17:00:52
2	Fe 238.204 Radial†	162.3	14.7	0.9910 µg/L	0.9910 ppb	17:00:52
2	K 766.490 Radial†	1496.9	120.8	49.716 µg/L	49.716 ppb	17:00:32
2	Mg 279.077 IEC†	172.4	-3.7	-1.5219 µg/L	-1.5219 ppb	17:00:52
2	Na 589.592 Radial†	1529.5	258.2	39.157 µg/L	39.157 ppb	17:00:32
2	Sr 421.552†	-214.6	16.2	0.0373 µg/L	0.0373 ppb	17:00:32
2	Sc 361.383	1766136.3	1766136.3	100.63 %		17:01:56
2	Y 371.029	1069430.1	1069430.1	100.51 %		17:01:56
2	Ag 328.068†	3213.8	-253.4	-1.0074 µg/L	-1.0074 ppb	17:01:58
2	As 188.979†	-17.3	0.5	0.1849 µg/L	0.1849 ppb	17:02:19
2	B 249.677†	3210.2	-40.2	-0.6565 µg/L	-0.6565 ppb	17:02:19
2	Ba 233.527†	-146.3	16.8	0.0730 µg/L	0.0730 ppb	17:02:19
2	Be 313.107†	-621.4	168.1	0.0500 µg/L	0.0500 ppb	17:01:58
2	Cd 226.502†	-122.3	-11.5	-0.0790 µg/L	-0.0790 ppb	17:02:19
2	Co 228.616†	-167.3	6.2	0.0841 µg/L	0.0841 ppb	17:02:19
2	Cr 267.716†	156.6	-22.9	-0.1919 µg/L	-0.1919 ppb	17:02:19
2	Cu 324.752†	2744.8	-61.3	-0.2595 µg/L	-0.2595 ppb	17:01:58
2	Mn 257.610†	188.7	11.9	0.0160 µg/L	0.0160 ppb	17:02:19
2	Mo 202.031†	-39.1	-4.1	-0.1293 µg/L	-0.1293 ppb	17:02:19
2	Ni 231.604†	-60.6	17.7	0.2227 µg/L	0.2227 ppb	17:02:19
2	P 214.914†	0.6	-4.4	-1.0487 µg/L	-1.0487 ppb	17:02:19
2	Pb 220.353†	74.0	-23.4	-1.4319 µg/L	-1.4319 ppb	17:02:19

2	S 181.975 Axial†	92.2	3.9	3.2288 µg/L	3.2288 ppb	17:02:19
2	Sb 206.836†	77.6	-0.9	-0.1180 µg/L	-0.1180 ppb	17:02:19
2	Se 196.026†	1.0	-12.5	-5.02 µg/L	-5.02 ppb	17:02:19
2	SiO2†	1685.5	-78.2	-8.3720 µg/L	-8.3720 ppb	17:02:19
2	Si 251.611†	746.6	-206.7	-3.3496 µg/L	-3.3496 ppb	17:02:19
2	Sn 189.927†	10.3	12.7	0.8809 µg/L	0.8809 ppb	17:02:19
2	Ti 334.940†	719.8	-170.3	-0.1700 µg/L	-0.1700 ppb	17:01:58
2	Tl 190.801†	-109.7	8.1	1.0864 µg/L	1.0864 ppb	17:02:19
2	U 409.014†	-308.2	-22.5	-1.4032 µg/L	-1.4032 ppb	17:01:58
2	V 292.402†	337.0	25.0	0.1297 µg/L	0.1297 ppb	17:01:58
2	Zn 213.857†	520.1	-7.7	-0.0490 µg/L	-0.0490 ppb	17:02:19
3	Sc RADIAL	151821.2	151821.2	103 %		17:00:54
3	Al 396.153Radial†	-35.8	28.1	5.7660 µg/L	5.7660 ppb	17:01:14
3	Ca 317.933Radial†	649.0	-66.1	-3.9762 µg/L	-3.9762 ppb	17:01:14
3	Fe 238.204 Radial†	152.9	8.2	0.5536 µg/L	0.5536 ppb	17:01:14
3	K 766.490 Radial†	1341.6	-6.4	-2.6589 µg/L	-2.6589 ppb	17:00:54
3	Mg 279.077 IBC†	176.0	2.6	1.0683 µg/L	1.0683 ppb	17:01:14
3	Na 589.592 Radial†	1495.8	249.9	37.942 µg/L	37.942 ppb	17:00:54
3	Sr 421.552†	-325.5	-95.3	-0.2198 µg/L	-0.2198 ppb	17:00:54
3	Sc 361.383	1779477.4	1779477.4	101.39 %		17:02:21
3	Y 371.029	1078016.4	1078016.4	101.31 %		17:02:21
3	Ag 328.068†	3389.2	-104.4	-0.4278 µg/L	-0.4278 ppb	17:02:23
3	As 188.979†	-17.2	0.7	0.2529 µg/L	0.2529 ppb	17:02:43
3	B 249.677†	3239.4	-35.4	-0.5764 µg/L	-0.5764 ppb	17:02:43
3	Ba 233.527†	-167.6	-3.1	-0.0137 µg/L	-0.0137 ppb	17:02:43
3	Be 313.107†	-756.0	40.0	0.0096 µg/L	0.0096 ppb	17:02:23
3	Cd 226.502†	-100.9	10.5	0.0724 µg/L	0.0724 ppb	17:02:43
3	Co 228.616†	-186.2	-11.2	-0.1522 µg/L	-0.1522 ppb	17:02:43
3	Cr 267.716†	173.8	-7.2	-0.0544 µg/L	-0.0544 ppb	17:02:43
3	Cu 324.752†	2874.1	45.7	0.1860 µg/L	0.1860 ppb	17:02:23
3	Mn 257.610†	174.4	-3.5	-0.0048 µg/L	-0.0048 ppb	17:02:43
3	Mo 202.031†	-24.1	11.0	0.3501 µg/L	0.3501 ppb	17:02:43
3	Ni 231.604†	-59.8	18.9	0.2376 µg/L	0.2376 ppb	17:02:43
3	P 214.914†	11.8	6.6	1.5759 µg/L	1.5759 ppb	17:02:43
3	Pb 220.353†	73.9	-24.0	-1.4651 µg/L	-1.4651 ppb	17:02:43
3	S 181.975 Axial†	95.0	6.0	4.8862 µg/L	4.8862 ppb	17:02:43
3	Sb 206.836†	84.7	5.4	0.7191 µg/L	0.7191 ppb	17:02:43
3	Se 196.026†	13.3	-0.4	-0.175 µg/L	-0.175 ppb	17:02:43
3	SiO2†	1699.4	-77.0	-8.2473 µg/L	-8.2473 ppb	17:02:43
3	Si 251.611†	782.0	-177.4	-2.8742 µg/L	-2.8742 ppb	17:02:43
3	Sn 189.927†	-6.6	-4.0	-0.2753 µg/L	-0.2753 ppb	17:02:43
3	Ti 334.940†	871.2	-26.3	-0.0232 µg/L	-0.0232 ppb	17:02:23
3	Tl 190.801†	-113.4	5.2	0.6959 µg/L	0.6959 ppb	17:02:43
3	U 409.014†	-417.5	-128.0	-8.0312 µg/L	-8.0312 ppb	17:02:23
3	V 292.402†	265.4	-48.1	-0.2572 µg/L	-0.2572 ppb	17:02:23
3	Zn 213.857†	508.3	-23.2	-0.1456 µg/L	-0.1456 ppb	17:02:43

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1770149.6	100.86 %	0.462			0.46%
Sc RADIAL	152001.9	103 %	1.5			1.49%
Y 371.029	1072448.9	100.79 %	0.454			0.45%
Ag 328.068†	-19.2	-0.0821 µg/L	1.13817	-0.0821 ppb	1.13817	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	15.6	3.2170 µg/L	3.39828	3.2170 ppb	3.39828	105.63%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.6	0.9201 µg/L	1.21495	0.9201 ppb	1.21495	132.05%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-20.3	-0.3303 µg/L	0.49719	-0.3303 ppb	0.49719	150.52%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	6.4	0.0278 µg/L	0.04348	0.0278 ppb	0.04348	156.19%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	81.9	0.0234 µg/L	0.02306	0.0234 ppb	0.02306	98.58%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-59.3	-3.5708 µg/L	1.25151	-3.5708 ppb	1.25151	35.05%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	1.2	0.0083 µg/L	0.07832	0.0083 ppb	0.07832	948.51%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-4.0	-0.0545 µg/L	0.12330	-0.0545 ppb	0.12330	226.30%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-6.8 -0.0542 µg/L	0.13777	-0.0542 ppb 0.13777 254.07%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	5.8 0.0212 µg/L	0.24425	0.0212 ppb 0.24425 >999.9%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	8.6 0.5803 µg/L	0.39803	0.5803 ppb 0.39803 68.60%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	69.8 28.726 µg/L	27.6913	28.726 ppb 27.6913 96.40%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	1.4 0.5642 µg/L	1.88533	0.5642 ppb 1.88533 334.16%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	0.1 0.0001 µg/L	0.01404	0.0001 ppb 0.01404 >999.9%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	4.9 0.1551 µg/L	0.25191	0.1551 ppb 0.25191 162.41%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	212.0 32.174 µg/L	11.0603	32.174 ppb 11.0603 34.38%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	14.3 0.1804 µg/L	0.08661	0.1804 ppb 0.08661 48.02%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	7.8 1.8535 µg/L	3.05049	1.8535 ppb 3.05049 164.58%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-18.2 -1.1099 µg/L	0.58669	-1.1099 ppb 0.58669 52.86%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	3.6 2.9373 µg/L	2.10985	2.9373 ppb 2.10985 71.83%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	2.0 0.2720 µg/L	0.42149	0.2720 ppb 0.42149 154.97%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	-4.8 -1.93 µg/L	2.683	-1.93 ppb 2.683 138.72%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	-75.5 -8.0878 µg/L	0.38919	-8.0878 ppb 0.38919 4.81%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	-178.1 -2.8881 µg/L	0.45468	-2.8881 ppb 0.45468 15.74%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	5.6 0.3892 µg/L	0.59721	0.3892 ppb 0.59721 153.43%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-27.4 -0.0631 µg/L	0.13749	-0.0631 ppb 0.13749 217.84%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	-145.8 -0.1446 µg/L	0.11091	-0.1446 ppb 0.11091 76.69%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	5.9 0.7878 µg/L	0.26491	0.7878 ppb 0.26491 33.63%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-62.3 -3.9097 µg/L	3.59701	-3.9097 ppb 3.59701 92.00%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-19.9 -0.1069 µg/L	0.20744	-0.1069 ppb 0.20744 194.00%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	-6.5 -0.0417 µg/L	0.10773	-0.0417 ppb 0.10773 258.22%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/30/2010 17:18:48

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	150447.1	150447.1	102 %		17:19:22
1	Al 396.153Radial†	25401.2	25022.2	5132.7 µg/L	5132.7 ppb	17:19:22
1	Ca 317.933Radial†	86818.2	84609.9	5090.8 µg/L	5090.8 ppb	17:19:22
1	Fe 238.204 Radial†	76699.6	75224.6	5061.8 µg/L	5061.8 ppb	17:19:22
1	K 766.490 Radial†	13929.7	12374.5	5088.7 µg/L	5088.7 ppb	17:19:22
1	Mg 279.077 IEC†	12998.2	12603.3	5178.2 µg/L	5178.2 ppb	17:19:22
1	Na 589.592 Radial†	68511.6	66113.1	10035 µg/L	10035 ppb	17:19:22
1	Sr 421.552†	228277.5	224527.9	517.91 µg/L	517.91 ppb	17:19:20
1	Sc 361.383	1756736.2	1756736.2	100.09 %		17:19:49
1	Y 371.029	1051471.7	1051471.7	98.818 %		17:19:49
1	Ag 328.068†	129586.2	126016.7	507.22 µg/L	507.22 ppb	17:19:49
1	As 188.979†	1431.2	1447.5	512.40 µg/L	512.40 ppb	17:20:09
1	B 249.677†	34020.5	30758.0	499.72 µg/L	499.72 ppb	17:19:49
1	Ba 233.527†	115660.0	115713.0	504.25 µg/L	504.25 ppb	17:19:49
1	Be 313.107†	1683097.6	1682293.9	505.01 µg/L	505.01 ppb	17:19:49
1	Cd 226.502†	73552.2	73592.8	505.00 µg/L	505.00 ppb	17:19:49
1	Co 228.616†	37413.9	37551.0	508.14 µg/L	508.14 ppb	17:19:49
1	Cr 267.716†	59943.1	59707.9	502.95 µg/L	502.95 ppb	17:19:49
1	Cu 324.752†	122063.0	119158.8	503.68 µg/L	503.68 ppb	17:19:49
1	Mn 257.610†	378802.5	378269.2	505.38 µg/L	505.38 ppb	17:19:49
1	Mo 202.031†	16008.3	16027.9	510.30 µg/L	510.30 ppb	17:20:09
1	Ni 231.604†	40299.1	40338.9	507.37 µg/L	507.37 ppb	17:19:49
1	P 214.914†	10741.1	10725.9	2549.7 µg/L	2549.7 ppb	17:20:09
1	Pb 220.353†	8473.7	8368.8	514.04 µg/L	514.04 ppb	17:20:09
1	S 181.975 Axial†	1329.1	1240.2	1020.9 µg/L	1020.9 ppb	17:20:09
1	Sb 206.836†	3973.9	3892.0	511.59 µg/L	511.59 ppb	17:20:09
1	Se 196.026†	1283.6	1268.8	510 µg/L	510 ppb	17:20:09
1	SiO2†	52268.2	50465.7	5377.2 µg/L	5377.2 ppb	17:19:49
1	Si 251.611†	156995.9	155899.0	2513.2 µg/L	2513.2 ppb	17:19:49
1	Sn 189.927†	7392.9	7388.5	513.21 µg/L	513.21 ppb	17:20:09
1	Ti 334.940†	505007.8	503645.4	503.92 µg/L	503.92 ppb	17:19:49
1	Tl 190.801†	3682.4	3796.0	517.71 µg/L	517.71 ppb	17:20:09
1	U 409.014†	7336.0	7612.8	507.49 µg/L	507.49 ppb	17:19:49
1	V 292.402†	94964.3	94564.8	508.83 µg/L	508.83 ppb	17:19:49
1	Zn 213.857†	82267.7	81665.5	502.52 µg/L	502.52 ppb	17:19:49
2	Sc RADIAL	153172.3	153172.3	104 %		17:19:26
2	Al 396.153Radial†	25695.3	24862.0	5099.7 µg/L	5099.7 ppb	17:19:26
2	Ca 317.933Radial†	88610.7	84822.1	5103.5 µg/L	5103.5 ppb	17:19:26
2	Fe 238.204 Radial†	78237.5	75368.0	5071.4 µg/L	5071.4 ppb	17:19:26
2	K 766.490 Radial†	14116.8	12311.6	5062.8 µg/L	5062.8 ppb	17:19:26
2	Mg 279.077 IEC†	13282.0	12649.9	5197.3 µg/L	5197.3 ppb	17:19:26
2	Na 589.592 Radial†	70025.6	66376.5	10075 µg/L	10075 ppb	17:19:26
2	Sr 421.552†	229523.7	221739.8	511.48 µg/L	511.48 ppb	17:19:24
2	Sc 361.383	1762706.8	1762706.8	100.43 %		17:20:12
2	Y 371.029	1055600.2	1055600.2	99.206 %		17:20:12
2	Ag 328.068†	130291.0	126280.0	508.30 µg/L	508.30 ppb	17:20:12
2	As 188.979†	1437.7	1449.1	512.97 µg/L	512.97 ppb	17:20:32
2	B 249.677†	34155.5	30777.4	500.03 µg/L	500.03 ppb	17:20:12
2	Ba 233.527†	116399.1	116057.5	505.75 µg/L	505.75 ppb	17:20:12
2	Be 313.107†	1693458.0	1686913.9	506.40 µg/L	506.40 ppb	17:20:12
2	Cd 226.502†	74111.5	73900.8	507.11 µg/L	507.11 ppb	17:20:12
2	Co 228.616†	37664.8	37674.2	509.81 µg/L	509.81 ppb	17:20:12
2	Cr 267.716†	60247.9	59808.5	503.80 µg/L	503.80 ppb	17:20:12
2	Cu 324.752†	122964.9	119643.7	505.74 µg/L	505.74 ppb	17:20:12
2	Mn 257.610†	381536.3	379709.3	507.31 µg/L	507.31 ppb	17:20:12
2	Mo 202.031†	16061.8	16027.0	510.27 µg/L	510.27 ppb	17:20:32
2	Ni 231.604†	40512.3	40414.9	508.33 µg/L	508.33 ppb	17:20:12
2	P 214.914†	10769.9	10718.3	2547.9 µg/L	2547.9 ppb	17:20:32
2	Pb 220.353†	8523.3	8389.5	515.30 µg/L	515.30 ppb	17:20:32





Cr	267.716†	59742.5	503.24 µg/L	0.479	503.24 ppb	0.479	0.10%
QC value within limits for Co 228.616 Recovery = 101.80%							
Cu	324.752†	119483.8	505.06 µg/L	1.190	505.06 ppb	1.190	0.24%
QC value within limits for Cr 267.716 Recovery = 100.65%							
Fe	238.204 Radial†	75234.5	5062.4 µg/L	8.67	5062.4 ppb	8.67	0.17%
QC value within limits for Cu 324.752 Recovery = 101.01%							
K	766.490 Radial†	12373.6	5088.3 µg/L	25.32	5088.3 ppb	25.32	0.50%
QC value within limits for Fe 238.204 Radial Recovery = 101.25%							
Mg	279.077 IEC†	12627.7	5188.2 µg/L	9.58	5188.2 ppb	9.58	0.18%
QC value within limits for K 766.490 Radial Recovery = 101.77%							
Mn	257.610†	379032.3	506.40 µg/L	0.967	506.40 ppb	0.967	0.19%
QC value within limits for Mg 279.077 IEC Recovery = 103.76%							
Mo	202.031†	16020.9	510.07 µg/L	0.363	510.07 ppb	0.363	0.07%
QC value within limits for Mn 257.610 Recovery = 101.28%							
Na	589.592 Radial†	66299.4	10063 µg/L	24.6	10063 ppb	24.6	0.24%
QC value within limits for Mo 202.031 Recovery = 102.01%							
Ni	231.604†	40370.5	507.77 µg/L	0.497	507.77 ppb	0.497	0.10%
QC value within limits for Na 589.592 Radial Recovery = 100.63%							
P	214.914†	10716.1	2547.4 µg/L	2.63	2547.4 ppb	2.63	0.10%
QC value within limits for Ni 231.604 Recovery = 101.55%							
Pb	220.353†	8381.5	514.81 µg/L	0.677	514.81 ppb	0.677	0.13%
QC value within limits for P 214.914 Recovery = 101.89%							
S	181.975 Axial†	1241.2	1021.8 µg/L	0.88	1021.8 ppb	0.88	0.09%
QC value within limits for Pb 220.353 Recovery = 102.96%							
Sb	206.836†	3878.7	509.83 µg/L	1.944	509.83 ppb	1.944	0.38%
QC value within limits for S 181.975 Axial Recovery = 102.18%							
Se	196.026†	1274.4	512 µg/L	2.0	512 ppb	2.0	0.39%
QC value within limits for Sb 206.836 Recovery = 101.97%							
SiO2†		50506.9	5381.6 µg/L	3.88	5381.6 ppb	3.88	0.07%
QC value within limits for Se 196.026 Recovery = 102.47%							
Si	251.611†	156258.2	2519.1 µg/L	5.42	2519.1 ppb	5.42	0.22%
QC value within limits for SiO2 Recovery = 100.64%							
Sn	189.927†	7382.2	512.78 µg/L	0.424	512.78 ppb	0.424	0.08%
QC value within limits for Si 251.611 Recovery = 100.76%							
Sr	421.552†	222308.0	512.79 µg/L	4.608	512.79 ppb	4.608	0.90%
QC value within limits for Sn 189.927 Recovery = 102.56%							
Ti	334.940†	504971.7	505.24 µg/L	1.303	505.24 ppb	1.303	0.26%
QC value within limits for Sr 421.552 Recovery = 102.56%							
Tl	190.801†	3800.8	518.38 µg/L	1.791	518.38 ppb	1.791	0.35%
QC value within limits for Ti 334.940 Recovery = 101.05%							
U	409.014†	7675.7	511.47 µg/L	4.685	511.47 ppb	4.685	0.92%
QC value within limits for Tl 190.801 Recovery = 103.68%							
V	292.402†	94701.3	509.55 µg/L	0.881	509.55 ppb	0.881	0.17%
QC value within limits for U 409.014 Recovery = 102.29%							
Zn	213.857†	81781.3	503.23 µg/L	1.132	503.23 ppb	1.132	0.22%
QC value within limits for V 292.402 Recovery = 101.91%							
QC value within limits for Zn 213.857 Recovery = 100.65%							

All analyte(s) passed QC.

Sequence No.: 10

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/30/2010 17:21:02

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	151612.6	151612.6	103 %		17:21:31
1	Al 396.153Radial†	-56.0	8.2	1.6789 µg/L	1.6789 ppb	17:21:51
1	Ca 317.933Radial†	667.4	-47.3	-2.8438 µg/L	-2.8438 ppb	17:21:51
1	Fe 238.204 Radial†	163.6	18.8	1.2660 µg/L	1.2660 ppb	17:21:51
1	K 766.490 Radial†	1549.7	198.2	81.562 µg/L	81.562 ppb	17:21:31
1	Mg 279.077 IEC†	197.6	23.9	9.8035 µg/L	9.8035 ppb	17:21:51
1	Na 589.592 Radial†	1504.5	260.3	39.459 µg/L	39.459 ppb	17:21:31
1	Sr 421.552†	-197.6	29.0	0.0669 µg/L	0.0669 ppb	17:21:31
1	Sc 361.383	1786652.6	1786652.6	101.80 %		17:22:39
1	Y 371.029	1082214.6	1082214.6	101.71 %		17:22:39
1	Ag 328.068†	3829.2	314.5	1.2474 µg/L	1.2474 ppb	17:22:41
1	As 188.979†	-12.2	5.7	1.9850 µg/L	1.9850 ppb	17:23:01
1	B 249.677†	3259.7	-28.3	-0.4609 µg/L	-0.4609 ppb	17:23:01
1	Ba 233.527†	-146.1	18.7	0.0814 µg/L	0.0814 ppb	17:23:01
1	Be 313.107†	-808.0	-8.2	-0.0030 µg/L	-0.0030 ppb	17:22:41
1	Cd 226.502†	-124.0	-11.8	-0.0807 µg/L	-0.0807 ppb	17:23:01
1	Co 228.616†	-172.8	2.7	0.0368 µg/L	0.0368 ppb	17:23:01
1	Cr 267.716†	168.4	-13.2	-0.1097 µg/L	-0.1097 ppb	17:23:01
1	Cu 324.752†	2861.6	22.1	0.0918 µg/L	0.0918 ppb	17:22:41
1	Mn 257.610†	203.5	24.3	0.0321 µg/L	0.0321 ppb	17:23:01
1	Mo 202.031†	-21.0	14.2	0.4512 µg/L	0.4512 ppb	17:23:01
1	Ni 231.604†	-43.7	35.0	0.4399 µg/L	0.4399 ppb	17:23:01
1	P 214.914†	16.6	11.3	2.6998 µg/L	2.6998 ppb	17:23:01
1	Pb 220.353†	85.6	-12.9	-0.7865 µg/L	-0.7865 ppb	17:23:01
1	S 181.975 Axial†	90.7	1.4	1.1791 µg/L	1.1791 ppb	17:23:01
1	Sb 206.836†	92.8	13.1	1.7284 µg/L	1.7284 ppb	17:23:01
1	Se 196.026†	20.3	6.4	2.54 µg/L	2.54 ppb	17:23:01
1	SiO2†	1716.5	-67.0	-7.1932 µg/L	-7.1932 ppb	17:23:01
1	Si 251.611†	786.3	-176.3	-2.8660 µg/L	-2.8660 ppb	17:23:01
1	Sn 189.927†	12.2	14.5	1.0060 µg/L	1.0060 ppb	17:23:01
1	Ti 334.940†	822.6	-77.5	-0.0777 µg/L	-0.0777 ppb	17:22:41
1	Tl 190.801†	-99.1	19.8	2.6569 µg/L	2.6569 ppb	17:23:01
1	U 409.014†	-320.3	-30.9	-1.9385 µg/L	-1.9385 ppb	17:22:41
1	V 292.402†	311.2	-4.2	-0.0194 µg/L	-0.0194 ppb	17:22:41
1	Zn 213.857†	539.4	5.3	0.0299 µg/L	0.0299 ppb	17:23:01
2	Sc RADIAL	151711.2	151711.2	103 %		17:21:53
2	Al 396.153Radial†	-61.3	3.2	0.6395 µg/L	0.6395 ppb	17:22:13
2	Ca 317.933Radial†	632.0	-82.1	-4.9402 µg/L	-4.9402 ppb	17:22:13
2	Fe 238.204 Radial†	152.2	7.6	0.5125 µg/L	0.5125 ppb	17:22:13
2	K 766.490 Radial†	1537.5	185.4	76.289 µg/L	76.289 ppb	17:21:53
2	Mg 279.077 IEC†	173.8	0.6	0.2447 µg/L	0.2447 ppb	17:22:13
2	Na 589.592 Radial†	1416.7	173.8	26.320 µg/L	26.320 ppb	17:21:53
2	Sr 421.552†	-295.9	-66.7	-0.1537 µg/L	-0.1537 ppb	17:21:53
2	Sc 361.383	1800964.8	1800964.8	102.61 %		17:23:03
2	Y 371.029	1089468.5	1089468.5	102.39 %		17:23:03
2	Ag 328.068†	3309.5	-221.9	-0.8860 µg/L	-0.8860 ppb	17:23:05
2	As 188.979†	-17.3	0.8	0.2871 µg/L	0.2871 ppb	17:23:26
2	B 249.677†	3208.8	-103.3	-1.6830 µg/L	-1.6830 ppb	17:23:26
2	Ba 233.527†	-167.1	-0.7	-0.0027 µg/L	-0.0027 ppb	17:23:26
2	Be 313.107†	-614.2	187.0	0.0548 µg/L	0.0548 ppb	17:23:05
2	Cd 226.502†	-73.2	38.7	0.2657 µg/L	0.2657 ppb	17:23:26
2	Co 228.616†	-188.1	-10.8	-0.1466 µg/L	-0.1466 ppb	17:23:26
2	Cr 267.716†	158.3	-24.3	-0.2015 µg/L	-0.2015 ppb	17:23:26
2	Cu 324.752†	2677.3	-179.9	-0.7614 µg/L	-0.7614 ppb	17:23:05
2	Mn 257.610†	177.7	-2.4	-0.0032 µg/L	-0.0032 ppb	17:23:26
2	Mo 202.031†	-24.4	11.0	0.3508 µg/L	0.3508 ppb	17:23:26
2	Ni 231.604†	-78.6	1.3	0.0163 µg/L	0.0163 ppb	17:23:26
2	P 214.914†	5.6	0.5	0.1210 µg/L	0.1210 ppb	17:23:26
2	Pb 220.353†	99.5	0.0	0.0062 µg/L	0.0062 ppb	17:23:26

2	S 181.975 Axial†	88.6	-1.3	-1.0766 µg/L	-1.0766 ppb	17:23:26
2	Sb 206.836†	81.5	1.3	0.1826 µg/L	0.1826 ppb	17:23:26
2	Se 196.026†	-3.8	-17.2	-6.90 µg/L	-6.90 ppb	17:23:26
2	SiO2†	1740.4	-57.1	-6.1143 µg/L	-6.1143 ppb	17:23:26
2	Si 251.611†	757.6	-210.4	-3.4098 µg/L	-3.4098 ppb	17:23:26
2	Sn 189.927†	-2.7	-0.1	-0.0082 µg/L	-0.0082 ppb	17:23:26
2	Ti 334.940†	623.6	-277.8	-0.2767 µg/L	-0.2767 ppb	17:23:05
2	Tl 190.801†	-113.2	6.7	0.9019 µg/L	0.9019 ppb	17:23:26
2	U 409.014†	-361.4	-68.4	-4.2789 µg/L	-4.2789 ppb	17:23:05
2	V 292.402†	336.0	17.6	0.0936 µg/L	0.0936 ppb	17:23:05
2	Zn 213.857†	519.1	-18.7	-0.1155 µg/L	-0.1155 ppb	17:23:26
3	Sc RADIAL	149965.0	149965.0	101 %		17:22:15
3	Al 396.153Radial†	-31.6	31.7	6.5334 µg/L	6.5334 ppb	17:22:35
3	Ca 317.933Radial†	652.8	-54.4	-3.2756 µg/L	-3.2756 ppb	17:22:35
3	Fe 238.204 Radial†	143.2	0.5	0.0329 µg/L	0.0329 ppb	17:22:35
3	K 766.490 Radial†	1418.5	85.5	35.164 µg/L	35.164 ppb	17:22:15
3	Mg 279.077 IEC†	153.3	-17.6	-7.2349 µg/L	-7.2349 ppb	17:22:35
3	Na 589.592 Radial†	1488.2	260.4	39.503 µg/L	39.503 ppb	17:22:15
3	Sr 421.552†	-208.2	16.4	0.0379 µg/L	0.0379 ppb	17:22:15
3	Sc 361.383	1752421.7	1752421.7	99.849 %		17:23:28
3	Y 371.029	1062426.9	1062426.9	99.848 %		17:23:28
3	Ag 328.068†	3395.4	-46.5	-0.1971 µg/L	-0.1971 ppb	17:23:30
3	As 188.979†	-14.9	2.7	0.9525 µg/L	0.9525 ppb	17:23:50
3	B 249.677†	3249.0	23.6	0.3844 µg/L	0.3844 ppb	17:23:50
3	Ba 233.527†	-163.8	-1.9	-0.0085 µg/L	-0.0085 ppb	17:23:50
3	Be 313.107†	-691.4	93.2	0.0254 µg/L	0.0254 ppb	17:23:30
3	Cd 226.502†	-84.5	25.4	0.1744 µg/L	0.1744 ppb	17:23:50
3	Co 228.616†	-169.0	3.2	0.0435 µg/L	0.0435 ppb	17:23:50
3	Cr 267.716†	148.8	-29.5	-0.2422 µg/L	-0.2422 ppb	17:23:50
3	Cu 324.752†	2779.8	-4.9	-0.0279 µg/L	-0.0279 ppb	17:23:30
3	Mn 257.610†	176.4	1.1	0.0018 µg/L	0.0018 ppb	17:23:50
3	Mo 202.031†	-30.5	4.2	0.1327 µg/L	0.1327 ppb	17:23:50
3	Ni 231.604†	-69.8	8.0	0.1010 µg/L	0.1010 ppb	17:23:50
3	P 214.914†	30.9	26.0	6.1996 µg/L	6.1996 ppb	17:23:50
3	Pb 220.353†	101.9	5.1	0.3202 µg/L	0.3202 ppb	17:23:50
3	S 181.975 Axial†	94.9	7.3	6.0180 µg/L	6.0180 ppb	17:23:50
3	Sb 206.836†	85.1	7.1	0.9397 µg/L	0.9397 ppb	17:23:50
3	Se 196.026†	15.4	1.8	0.725 µg/L	0.725 ppb	17:23:50
3	SiO2†	1680.4	-70.2	-7.5145 µg/L	-7.5145 ppb	17:23:50
3	Si 251.611†	760.4	-187.1	-3.0316 µg/L	-3.0316 ppb	17:23:50
3	Sn 189.927†	-0.2	2.4	0.1634 µg/L	0.1634 ppb	17:23:50
3	Ti 334.940†	528.0	-356.8	-0.3534 µg/L	-0.3534 ppb	17:23:30
3	Tl 190.801†	-100.9	16.0	2.1437 µg/L	2.1437 ppb	17:23:50
3	U 409.014†	-418.3	-135.2	-8.4743 µg/L	-8.4743 ppb	17:23:30
3	V 292.402†	281.8	-27.6	-0.1515 µg/L	-0.1515 ppb	17:23:30
3	Zn 213.857†	523.6	-0.2	-0.0020 µg/L	-0.0020 ppb	17:23:50

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Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1780013.1	101.42 %	1.421			1.40%
Sc RADIAL	151096.3	102 %	0.7			0.65%
Y 371.029	1078036.7	101.32 %	1.315			1.30%
Ag 328.068†	15.3	0.0548 µg/L	1.08877	0.0548 ppb	1.08877	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	14.4	2.9506 µg/L	3.14602	2.9506 ppb	3.14602	106.62%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.1	1.0749 µg/L	0.85558	1.0749 ppb	0.85558	79.60%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-36.0	-0.5865 µg/L	1.03942	-0.5865 ppb	1.03942	177.22%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.4	0.0234 µg/L	0.05028	0.0234 ppb	0.05028	214.84%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	90.7	0.0257 µg/L	0.02894	0.0257 ppb	0.02894	112.47%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-61.3	-3.6865 µg/L	1.10699	-3.6865 ppb	1.10699	30.03%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	17.4	0.1198 µg/L	0.17957	0.1198 ppb	0.17957	149.88%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-1.6	-0.0221 µg/L	0.10788	-0.0221 ppb	0.10788	488.25%

Cr	267.716†	-22.3	-0.1845 µg/L	0.06787	-0.1845 ppb	0.06787	36.80%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cu	324.752†	-54.2	-0.2325 µg/L	0.46196	-0.2325 ppb	0.46196	198.68%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Fe	238.204 Radial†	9.0	0.6038 µg/L	0.62161	0.6038 ppb	0.62161	102.94%
QC value within limits for Cu 324.752 Recovery = Not calculated							
K	766.490 Radial†	156.3	64.338 µg/L	25.4031	64.338 ppb	25.4031	39.48%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
Mg	279.077 IEC†	2.3	0.9378 µg/L	8.54036	0.9378 ppb	8.54036	910.72%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mn	257.610†	7.7	0.0102 µg/L	0.01910	0.0102 ppb	0.01910	186.81%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mo	202.031†	9.8	0.3116 µg/L	0.16283	0.3116 ppb	0.16283	52.26%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Na	589.592 Radial†	231.5	35.094 µg/L	7.5987	35.094 ppb	7.5987	21.65%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni	231.604†	14.8	0.1857 µg/L	0.22414	0.1857 ppb	0.22414	120.67%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
P	214.914†	12.6	3.0068 µg/L	3.05088	3.0068 ppb	3.05088	101.47%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb	220.353†	-2.6	-0.1534 µg/L	0.57034	-0.1534 ppb	0.57034	371.90%
QC value within limits for P 214.914 Recovery = Not calculated							
S	181.975 Axial†	2.5	2.0402 µg/L	3.62485	2.0402 ppb	3.62485	177.67%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb	206.836†	7.2	0.9502 µg/L	0.77295	0.9502 ppb	0.77295	81.34%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Se	196.026†	-3.0	-1.21 µg/L	5.010	-1.21 ppb	5.010	413.51%
QC value within limits for Sb 206.836 Recovery = Not calculated							
SiO2†		-64.7	-6.9407 µg/L	0.73346	-6.9407 ppb	0.73346	10.57%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	-191.3	-3.1025 µg/L	0.27874	-3.1025 ppb	0.27874	8.98%
QC value within limits for SiO2 Recovery = Not calculated							
Sn	189.927†	5.6	0.3871 µg/L	0.54288	0.3871 ppb	0.54288	140.26%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sr	421.552†	-7.1	-0.0163 µg/L	0.11990	-0.0163 ppb	0.11990	735.65%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti	334.940†	-237.4	-0.2359 µg/L	0.14230	-0.2359 ppb	0.14230	60.32%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Tl	190.801†	14.2	1.9008 µg/L	0.90235	1.9008 ppb	0.90235	47.47%
QC value within limits for Ti 334.940 Recovery = Not calculated							
U	409.014†	-78.2	-4.8972 µg/L	3.31148	-4.8972 ppb	3.31148	67.62%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V	292.402†	-4.7	-0.0257 µg/L	0.12269	-0.0257 ppb	0.12269	476.71%
QC value within limits for U 409.014 Recovery = Not calculated							
Zn	213.857†	-4.5	-0.0292 µg/L	0.07644	-0.0292 ppb	0.07644	261.65%
QC value within limits for V 292.402 Recovery = Not calculated							
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 17

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/30/2010 17:40:12

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	154418.8	154418.8	104 %		17:40:45
1	Al 396.153Radial†	25881.5	24840.1	5095.1 µg/L	5095.1 ppb	17:40:45
1	Ca 317.933Radial†	89405.0	84892.2	5107.8 µg/L	5107.8 ppb	17:40:45
1	Fe 238.204 Radial†	78825.0	75320.8	5068.2 µg/L	5068.2 ppb	17:40:45
1	K 766.490 Radial†	14351.2	12426.0	5109.9 µg/L	5109.9 ppb	17:40:45
1	Mg 279.077 IEC†	13472.2	12728.5	5229.6 µg/L	5229.6 ppb	17:40:45
1	Na 589.592 Radial†	70371.6	66162.3	10042 µg/L	10042 ppb	17:40:45
1	Sr 421.552†	231921.2	222246.9	512.65 µg/L	512.65 ppb	17:40:43
1	Sc 361.383	1770216.3	1770216.3	100.86 %		17:41:12
1	Y 371.029	1058374.3	1058374.3	99.467 %		17:41:12
1	Ag 328.068†	130653.5	126089.1	507.50 µg/L	507.50 ppb	17:41:12
1	As 188.979†	1448.8	1454.1	514.70 µg/L	514.70 ppb	17:41:32
1	B 249.677†	34436.8	30912.0	502.23 µg/L	502.23 ppb	17:41:12
1	Ba 233.527†	116767.3	115930.9	505.19 µg/L	505.19 ppb	17:41:12
1	Be 313.107†	1699194.9	1685448.9	505.96 µg/L	505.96 ppb	17:41:12
1	Cd 226.502†	74344.1	73818.3	506.54 µg/L	506.54 ppb	17:41:12
1	Co 228.616†	37776.5	37625.9	509.15 µg/L	509.15 ppb	17:41:12
1	Cr 267.716†	60453.2	59757.6	503.37 µg/L	503.37 ppb	17:41:12
1	Cu 324.752†	123125.1	119283.2	504.21 µg/L	504.21 ppb	17:41:12
1	Mn 257.610†	382389.5	378943.7	506.28 µg/L	506.28 ppb	17:41:12
1	Mo 202.031†	16142.5	16039.2	510.65 µg/L	510.65 ppb	17:41:32
1	Ni 231.604†	40624.4	40354.8	507.57 µg/L	507.57 ppb	17:41:12
1	P 214.914†	10878.0	10780.0	2562.6 µg/L	2562.6 ppb	17:41:32
1	Pb 220.353†	8582.5	8412.1	516.69 µg/L	516.69 ppb	17:41:32
1	S 181.975 Axial†	1354.9	1255.6	1033.6 µg/L	1033.6 ppb	17:41:32
1	Sb 206.836†	4013.1	3900.7	512.73 µg/L	512.73 ppb	17:41:32
1	Se 196.026†	1310.6	1285.8	517 µg/L	517 ppb	17:41:32
1	SiO2†	52722.5	50518.5	5382.8 µg/L	5382.8 ppb	17:41:12
1	Si 251.611†	158212.1	155910.4	2513.4 µg/L	2513.4 ppb	17:41:12
1	Sn 189.927†	7470.8	7409.5	514.67 µg/L	514.67 ppb	17:41:32
1	Ti 334.940†	509168.7	503928.7	504.20 µg/L	504.20 ppb	17:41:12
1	Tl 190.801†	3749.6	3834.6	522.90 µg/L	522.90 ppb	17:41:32
1	U 409.014†	7397.7	7618.2	507.79 µg/L	507.79 ppb	17:41:12
1	V 292.402†	95558.2	94431.1	508.12 µg/L	508.12 ppb	17:41:12
1	Zn 213.857†	83202.9	81966.8	504.38 µg/L	504.38 ppb	17:41:12
2	Sc RADIAL	152256.9	152256.9	103 %		17:40:49
2	Al 396.153Radial†	25420.4	24744.1	5075.6 µg/L	5075.6 ppb	17:40:49
2	Ca 317.933Radial†	88042.4	84784.4	5101.3 µg/L	5101.3 ppb	17:40:49
2	Fe 238.204 Radial†	77781.8	75379.5	5072.2 µg/L	5072.2 ppb	17:40:49
2	K 766.490 Radial†	14172.4	12447.5	5118.8 µg/L	5118.8 ppb	17:40:49
2	Mg 279.077 IEC†	13260.1	12705.8	5220.1 µg/L	5220.1 ppb	17:40:49
2	Na 589.592 Radial†	69446.9	66221.0	10051 µg/L	10051 ppb	17:40:49
2	Sr 421.552†	231973.3	225450.1	520.04 µg/L	520.04 ppb	17:40:47
2	Sc 361.383	1750687.1	1750687.1	99.750 %		17:41:35
2	Y 371.029	1047187.7	1047187.7	98.416 %		17:41:35
2	Ag 328.068†	129307.7	126184.9	507.89 µg/L	507.89 ppb	17:41:35
2	As 188.979†	1415.4	1436.6	508.61 µg/L	508.61 ppb	17:41:55
2	B 249.677†	34174.1	31029.5	504.14 µg/L	504.14 ppb	17:41:35
2	Ba 233.527†	115618.6	116070.7	505.80 µg/L	505.80 ppb	17:41:35
2	Be 313.107†	1681827.2	1686830.4	506.38 µg/L	506.38 ppb	17:41:35
2	Cd 226.502†	73697.6	73992.4	507.74 µg/L	507.74 ppb	17:41:35
2	Co 228.616†	37362.3	37628.4	509.19 µg/L	509.19 ppb	17:41:35
2	Cr 267.716†	59945.8	59917.6	504.72 µg/L	504.72 ppb	17:41:35
2	Cu 324.752†	122121.4	119638.7	505.71 µg/L	505.71 ppb	17:41:35
2	Mn 257.610†	378960.5	379735.3	507.34 µg/L	507.34 ppb	17:41:35
2	Mo 202.031†	15799.0	15873.4	505.38 µg/L	505.38 ppb	17:41:55
2	Ni 231.604†	40245.2	40424.0	508.44 µg/L	508.44 ppb	17:41:35
2	P 214.914†	10594.8	10616.3	2523.6 µg/L	2523.6 ppb	17:41:55
2	Pb 220.353†	8346.4	8270.4	507.99 µg/L	507.99 ppb	17:41:55



QC value within limits for Co 228.616 Recovery = 101.82%							
Cr	267.716†	59845.4	504.11 µg/L	0.682	504.11 ppb	0.682	0.14%
QC value within limits for Cr 267.716 Recovery = 100.82%							
Cu	324.752†	119433.1	504.84 µg/L	0.779	504.84 ppb	0.779	0.15%
QC value within limits for Cu 324.752 Recovery = 100.97%							
Fe	238.204 Radial†	75392.7	5073.1 µg/L	5.33	5073.1 ppb	5.33	0.11%
QC value within limits for Fe 238.204 Radial Recovery = 101.46%							
K	766.490 Radial†	12479.7	5132.0 µg/L	30.90	5132.0 ppb	30.90	0.60%
QC value within limits for K 766.490 Radial Recovery = 102.64%							
Mg	279.077 IEC†	12707.8	5221.1 µg/L	8.12	5221.1 ppb	8.12	0.16%
QC value within limits for Mg 279.077 IEC Recovery = 104.42%							
Mn	257.610†	379278.4	506.73 µg/L	0.548	506.73 ppb	0.548	0.11%
QC value within limits for Mn 257.610 Recovery = 101.35%							
Mo	202.031†	15979.9	508.77 µg/L	2.941	508.77 ppb	2.941	0.58%
QC value within limits for Mo 202.031 Recovery = 101.75%							
Na	589.592 Radial†	66219.2	10051 µg/L	8.5	10051 ppb	8.5	0.08%
QC value within limits for Na 589.592 Radial Recovery = 100.51%							
Ni	231.604†	40367.1	507.73 µg/L	0.652	507.73 ppb	0.652	0.13%
QC value within limits for Ni 231.604 Recovery = 101.55%							
P	214.914†	10692.3	2541.7 µg/L	19.68	2541.7 ppb	19.68	0.77%
QC value within limits for P 214.914 Recovery = 101.67%							
Pb	220.353†	8356.6	513.29 µg/L	4.647	513.29 ppb	4.647	0.91%
QC value within limits for Pb 220.353 Recovery = 102.66%							
S	181.975 Axial†	1243.7	1023.8 µg/L	10.32	1023.8 ppb	10.32	1.01%
QC value within limits for S 181.975 Axial Recovery = 102.38%							
Sb	206.836†	3879.0	509.83 µg/L	2.858	509.83 ppb	2.858	0.56%
QC value within limits for Sb 206.836 Recovery = 101.97%							
Se	196.026†	1276.5	513 µg/L	3.3	513 ppb	3.3	0.64%
QC value within limits for Se 196.026 Recovery = 102.63%							
SiO2†		50470.2	5377.7 µg/L	14.69	5377.7 ppb	14.69	0.27%
QC value within limits for SiO2 Recovery = 100.56%							
Si	251.611†	156191.5	2518.0 µg/L	4.82	2518.0 ppb	4.82	0.19%
QC value within limits for Si 251.611 Recovery = 100.72%							
Sn	189.927†	7366.3	511.68 µg/L	3.252	511.68 ppb	3.252	0.64%
QC value within limits for Sn 189.927 Recovery = 102.34%							
Sr	421.552†	223411.9	515.34 µg/L	4.086	515.34 ppb	4.086	0.79%
QC value within limits for Sr 421.552 Recovery = 103.07%							
Ti	334.940†	504561.7	504.83 µg/L	0.574	504.83 ppb	0.574	0.11%
QC value within limits for Ti 334.940 Recovery = 100.97%							
Tl	190.801†	3802.2	518.55 µg/L	4.742	518.55 ppb	4.742	0.91%
QC value within limits for Tl 190.801 Recovery = 103.71%							
U	409.014†	7645.4	509.51 µg/L	4.094	509.51 ppb	4.094	0.80%
QC value within limits for U 409.014 Recovery = 101.90%							
V	292.402†	94488.5	508.41 µg/L	0.257	508.41 ppb	0.257	0.05%
QC value within limits for V 292.402 Recovery = 101.68%							
Zn	213.857†	82002.4	504.60 µg/L	0.274	504.60 ppb	0.274	0.05%
QC value within limits for Zn 213.857 Recovery = 100.92%							

All analyte(s) passed QC.



Sequence No.: 18  
 Sample ID: CCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 8  
 Date Collected: 3/30/2010 17:42:27  
 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	149223.8	149223.8	101 %		17:42:56
1	Al 396.153Radial†	-56.0	7.4	1.5345 µg/L	1.5345 ppb	17:43:16
1	Ca 317.933Radial†	662.0	-42.2	-2.5368 µg/L	-2.5368 ppb	17:43:16
1	Fe 238.204 Radial†	154.9	12.8	0.8607 µg/L	0.8607 ppb	17:43:16
1	K 766.490 Radial†	1607.1	279.3	114.93 µg/L	114.93 ppb	17:42:56
1	Mg 279.077 IEC†	184.4	13.9	5.6942 µg/L	5.6942 ppb	17:43:16
1	Na 589.592 Radial†	1613.7	392.0	59.428 µg/L	59.428 ppb	17:42:56
1	Sr 421.552†	-96.8	125.8	0.2902 µg/L	0.2902 ppb	17:42:56
1	Sc 361.383	1740851.3	1740851.3	99.189 %		17:44:04
1	Y 371.029	1055585.6	1055585.6	99.205 %		17:44:04
1	Ag 328.068†	3751.0	334.6	1.3196 µg/L	1.3196 ppb	17:44:06
1	As 188.979†	-17.7	-0.1	-0.0475 µg/L	-0.0475 ppb	17:44:26
1	B 249.677†	3297.4	94.0	1.5332 µg/L	1.5332 ppb	17:44:26
1	Ba 233.527†	-135.0	26.1	0.1138 µg/L	0.1138 ppb	17:44:26
1	Be 313.107†	-465.5	316.3	0.0913 µg/L	0.0913 ppb	17:44:06
1	Cd 226.502†	-102.2	7.0	0.0477 µg/L	0.0477 ppb	17:44:26
1	Co 228.616†	-169.2	1.9	0.0256 µg/L	0.0256 ppb	17:44:26
1	Cr 267.716†	161.7	-15.5	-0.1210 µg/L	-0.1210 ppb	17:44:26
1	Cu 324.752†	2892.8	127.5	0.5274 µg/L	0.5274 ppb	17:44:06
1	Mn 257.610†	188.2	14.2	0.0187 µg/L	0.0187 ppb	17:44:26
1	Mo 202.031†	-34.7	-0.2	-0.0073 µg/L	-0.0073 ppb	17:44:26
1	Ni 231.604†	-81.0	-3.7	-0.0471 µg/L	-0.0471 ppb	17:44:26
1	P 214.914†	16.6	11.8	2.8139 µg/L	2.8139 ppb	17:44:26
1	Pb 220.353†	73.7	-22.7	-1.3818 µg/L	-1.3818 ppb	17:44:26
1	S 181.975 Axial†	92.6	5.7	4.6757 µg/L	4.6757 ppb	17:44:26
1	Sb 206.836†	88.1	10.7	1.4077 µg/L	1.4077 ppb	17:44:26
1	Se 196.026†	26.9	13.5	5.40 µg/L	5.40 ppb	17:44:26
1	SiO2†	1702.4	-36.8	-3.9566 µg/L	-3.9566 ppb	17:44:26
1	Si 251.611†	805.5	-136.5	-2.2166 µg/L	-2.2166 ppb	17:44:26
1	Sn 189.927†	12.1	14.8	1.0220 µg/L	1.0220 ppb	17:44:26
1	Ti 334.940†	782.8	-96.4	-0.0921 µg/L	-0.0921 ppb	17:44:06
1	Tl 190.801†	-109.4	6.8	0.9176 µg/L	0.9176 ppb	17:44:26
1	U 409.014†	-471.7	-191.8	-11.993 µg/L	-11.993 ppb	17:44:06
1	V 292.402†	376.2	69.5	0.3602 µg/L	0.3602 ppb	17:44:06
1	Zn 213.857†	507.0	-13.4	-0.0835 µg/L	-0.0835 ppb	17:44:26
2	Sc RADIAL	151236.2	151236.2	102 %		17:43:18
2	Al 396.153Radial†	-21.0	42.4	8.7168 µg/L	8.7168 ppb	17:43:38
2	Ca 317.933Radial†	653.0	-59.6	-3.5888 µg/L	-3.5888 ppb	17:43:38
2	Fe 238.204 Radial†	152.7	8.6	0.5778 µg/L	0.5778 ppb	17:43:38
2	K 766.490 Radial†	1413.4	68.8	28.307 µg/L	28.307 ppb	17:43:18
2	Mg 279.077 IEC†	159.0	-13.3	-5.4565 µg/L	-5.4565 ppb	17:43:38
2	Na 589.592 Radial†	1467.8	228.1	34.616 µg/L	34.616 ppb	17:43:18
2	Sr 421.552†	-229.5	-2.7	-0.0061 µg/L	-0.0061 ppb	17:43:18
2	Sc 361.383	1789733.9	1789733.9	101.97 %		17:44:28
2	Y 371.029	1083381.9	1083381.9	101.82 %		17:44:28
2	Ag 328.068†	3704.7	185.9	0.7594 µg/L	0.7594 ppb	17:44:30
2	As 188.979†	-20.5	-2.5	-0.8602 µg/L	-0.8602 ppb	17:44:51
2	B 249.677†	3265.6	-27.9	-0.4549 µg/L	-0.4549 ppb	17:44:51
2	Ba 233.527†	-147.6	17.4	0.0763 µg/L	0.0763 ppb	17:44:51
2	Be 313.107†	-589.1	207.9	0.0663 µg/L	0.0663 ppb	17:44:30
2	Cd 226.502†	-88.1	23.7	0.1626 µg/L	0.1626 ppb	17:44:51
2	Co 228.616†	-190.6	-14.5	-0.1957 µg/L	-0.1957 ppb	17:44:51
2	Cr 267.716†	149.7	-31.7	-0.2772 µg/L	-0.2772 ppb	17:44:51
2	Cu 324.752†	2754.5	-87.8	-0.3595 µg/L	-0.3595 ppb	17:44:30
2	Mn 257.610†	189.1	9.9	0.0134 µg/L	0.0134 ppb	17:44:51
2	Mo 202.031†	-22.2	13.0	0.4125 µg/L	0.4125 ppb	17:44:51
2	Ni 231.604†	-63.7	15.4	0.1938 µg/L	0.1938 ppb	17:44:51
2	P 214.914†	14.2	9.0	2.1371 µg/L	2.1371 ppb	17:44:51
2	Pb 220.353†	93.1	-5.6	-0.3521 µg/L	-0.3521 ppb	17:44:51

2	S 181.975 Axial†	103.3	13.6	11.162 µg/L	11.162 ppb	17:44:51
2	Sb 206.836†	65.2	-14.2	-1.8489 µg/L	-1.8489 ppb	17:44:51
2	Se 196.026†	14.8	1.0	0.409 µg/L	0.409 ppb	17:44:51
2	SiO2†	1667.3	-118.1	-12.646 µg/L	-12.646 ppb	17:44:51
2	Si 251.611†	773.3	-190.4	-3.0841 µg/L	-3.0841 ppb	17:44:51
2	Sn 189.927†	-8.6	-5.9	-0.4098 µg/L	-0.4098 ppb	17:44:51
2	Ti 334.940†	770.5	-130.0	-0.1350 µg/L	-0.1350 ppb	17:44:30
2	Tl 190.801†	-116.4	2.9	0.3948 µg/L	0.3948 ppb	17:44:51
2	U 409.014†	-81.5	203.9	12.791 µg/L	12.791 ppb	17:44:30
2	V 292.402†	391.1	73.7	0.4028 µg/L	0.4028 ppb	17:44:30
2	Zn 213.857†	509.1	-25.3	-0.1579 µg/L	-0.1579 ppb	17:44:51
3	Sc RADIAL	153128.4	153128.4	104 %		17:43:40
3	Al 396.153Radial†	-66.6	-1.4	-0.2868 µg/L	-0.2868 ppb	17:44:00
3	Ca 317.933Radial†	663.9	-57.1	-3.4340 µg/L	-3.4340 ppb	17:44:00
3	Fe 238.204 Radial†	162.3	15.9	1.0724 µg/L	1.0724 ppb	17:44:00
3	K 766.490 Radial†	1397.3	36.1	14.869 µg/L	14.869 ppb	17:43:40
3	Mg 279.077 IEC†	188.4	13.1	5.3774 µg/L	5.3774 ppb	17:44:00
3	Na 589.592 Radial†	1362.5	108.7	16.495 µg/L	16.495 ppb	17:43:40
3	Sr 421.552†	-427.6	-191.1	-0.4409 µg/L	-0.4409 ppb	17:43:40
3	Sc 361.383	1735204.4	1735204.4	98.868 %		17:44:53
3	Y 371.029	1051337.1	1051337.1	98.806 %		17:44:53
3	Ag 328.068†	3394.5	-13.7	-0.0762 µg/L	-0.0762 ppb	17:44:55
3	As 188.979†	-6.8	10.8	3.7567 µg/L	3.7567 ppb	17:45:15
3	B 249.677†	3250.6	57.4	0.9360 µg/L	0.9360 ppb	17:45:15
3	Ba 233.527†	-155.9	4.5	0.0193 µg/L	0.0193 ppb	17:45:15
3	Be 313.107†	-860.6	-84.9	-0.0295 µg/L	-0.0295 ppb	17:44:55
3	Cd 226.502†	-85.7	23.3	0.1600 µg/L	0.1600 ppb	17:45:15
3	Co 228.616†	-156.5	14.1	0.1911 µg/L	0.1911 ppb	17:45:15
3	Cr 267.716†	170.5	-6.1	-0.0410 µg/L	-0.0410 ppb	17:45:15
3	Cu 324.752†	2758.1	0.7	-0.0075 µg/L	-0.0075 ppb	17:44:55
3	Mn 257.610†	168.3	-5.4	-0.0074 µg/L	-0.0074 ppb	17:45:15
3	Mo 202.031†	-34.1	0.3	0.0091 µg/L	0.0091 ppb	17:45:15
3	Ni 231.604†	-62.8	14.3	0.1804 µg/L	0.1804 ppb	17:45:15
3	P 214.914†	9.9	5.0	1.2075 µg/L	1.2075 ppb	17:45:15
3	Pb 220.353†	88.3	-7.7	-0.4611 µg/L	-0.4611 ppb	17:45:15
3	S 181.975 Axial†	91.9	5.3	4.3277 µg/L	4.3277 ppb	17:45:15
3	Sb 206.836†	76.8	-0.4	-0.0552 µg/L	-0.0552 ppb	17:45:15
3	Se 196.026†	9.6	-3.8	-1.55 µg/L	-1.55 ppb	17:45:15
3	SiO2†	1679.3	-54.6	-5.8537 µg/L	-5.8537 ppb	17:45:15
3	Si 251.611†	744.3	-195.8	-3.1739 µg/L	-3.1739 ppb	17:45:15
3	Sn 189.927†	6.5	9.2	0.6338 µg/L	0.6338 ppb	17:45:15
3	Ti 334.940†	819.1	-57.1	-0.0523 µg/L	-0.0523 ppb	17:44:55
3	Tl 190.801†	-108.9	6.9	0.9222 µg/L	0.9222 ppb	17:45:15
3	U 409.014†	-490.6	-212.5	-13.335 µg/L	-13.335 ppb	17:44:55
3	V 292.402†	223.9	-83.4	-0.4518 µg/L	-0.4518 ppb	17:44:55
3	Zn 213.857†	524.3	5.7	0.0343 µg/L	0.0343 ppb	17:45:15

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1755263.2	100.01 %	1.709			1.71%
Sc RADIAL	151196.1	102 %	1.3			1.29%
Y 371.029	1063434.8	99.943 %	1.6357			1.64%
Ag 328.068†	168.9	0.6676 µg/L	0.70241	0.6676 ppb	0.70241	105.22%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	16.1	3.3215 µg/L	4.76035	3.3215 ppb	4.76035	143.32%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.7	0.9497 µg/L	2.46469	0.9497 ppb	2.46469	259.52%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	41.2	0.6714 µg/L	1.02013	0.6714 ppb	1.02013	151.93%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	16.0	0.0698 µg/L	0.04762	0.0698 ppb	0.04762	68.22%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	146.5	0.0427 µg/L	0.06375	0.0427 ppb	0.06375	149.33%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-53.0	-3.1865 µg/L	0.56796	-3.1865 ppb	0.56796	17.82%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	18.0	0.1234 µg/L	0.06561	0.1234 ppb	0.06561	53.17%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	0.5	0.0070 µg/L	0.19406	0.0070 ppb	0.19406	>999.9%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-17.8	-0.1464 µg/L	0.12014	-0.1464 ppb	0.12014	82.06%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	13.5	0.0535 µg/L	0.44662	0.0535 ppb	0.44662	835.30%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	12.4	0.8369 µg/L	0.24815	0.8369 ppb	0.24815	29.65%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	128.1	52.703 µg/L	54.3096	52.703 ppb	54.3096	103.05%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	4.6	1.8717 µg/L	6.34837	1.8717 ppb	6.34837	339.17%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	6.2	0.0082 µg/L	0.01382	0.0082 ppb	0.01382	167.68%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	4.3	0.1381 µg/L	0.23777	0.1381 ppb	0.23777	172.20%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	243.0	36.846 µg/L	21.5535	36.846 ppb	21.5535	58.50%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	8.7	0.1090 µg/L	0.13543	0.1090 ppb	0.13543	124.19%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	8.6	2.0528 µg/L	0.80647	2.0528 ppb	0.80647	39.29%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-12.0	-0.7317 µg/L	0.56567	-0.7317 ppb	0.56567	77.31%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	8.2	6.7217 µg/L	3.84909	6.7217 ppb	3.84909	57.26%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-1.3	-0.1655 µg/L	1.63108	-0.1655 ppb	1.63108	985.78%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	3.6	1.42 µg/L	3.583	1.42 ppb	3.583	252.41%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-69.9	-7.4854 µg/L	4.56863	-7.4854 ppb	4.56863	61.03%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	-174.2	-2.8248 µg/L	0.52869	-2.8248 ppb	0.52869	18.72%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	6.0	0.4153 µg/L	0.74044	0.4153 ppb	0.74044	178.28%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-22.7	-0.0523 µg/L	0.36773	-0.0523 ppb	0.36773	703.35%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-94.5	-0.0932 µg/L	0.04138	-0.0932 ppb	0.04138	44.41%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	5.5	0.7449 µg/L	0.30318	0.7449 ppb	0.30318	40.70%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-66.8	-4.1790 µg/L	14.71171	-4.1790 ppb	14.71171	352.04%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	19.9	0.1037 µg/L	0.48160	0.1037 ppb	0.48160	464.37%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-11.0	-0.0690 µg/L	0.09694	-0.0690 ppb	0.09694	140.45%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
All analyte(s) passed QC.							





QC value within limits for Co 228.616 Recovery = 101.20%							
Cr 267.716†	59428.9	500.60 µg/L	0.439	500.60 ppb	0.439	0.09%	
QC value within limits for Cr 267.716 Recovery = 100.12%							
Cu 324.752†	118724.6	501.85 µg/L	0.894	501.85 ppb	0.894	0.18%	
QC value within limits for Cu 324.752 Recovery = 100.37%							
Fe 238.204 Radial†	75164.8	5057.7 µg/L	27.03	5057.7 ppb	27.03	0.53%	
QC value within limits for Fe 238.204 Radial Recovery = 101.15%							
K 766.490 Radial†	12422.3	5108.4 µg/L	69.01	5108.4 ppb	69.01	1.35%	
QC value within limits for K 766.490 Radial Recovery = 102.17%							
Mg 279.077 IEC†	12569.7	5164.3 µg/L	62.53	5164.3 ppb	62.53	1.21%	
QC value within limits for Mg 279.077 IEC Recovery = 103.29%							
Mn 257.610†	376887.3	503.54 µg/L	0.740	503.54 ppb	0.740	0.15%	
QC value within limits for Mn 257.610 Recovery = 100.71%							
Mo 202.031†	15884.1	505.72 µg/L	2.708	505.72 ppb	2.708	0.54%	
QC value within limits for Mo 202.031 Recovery = 101.14%							
Na 589.592 Radial†	66319.7	10066 µg/L	42.1	10066 ppb	42.1	0.42%	
QC value within limits for Na 589.592 Radial Recovery = 100.66%							
Ni 231.604†	40135.0	504.81 µg/L	1.285	504.81 ppb	1.285	0.25%	
QC value within limits for Ni 231.604 Recovery = 100.96%							
P 214.914†	10567.2	2511.9 µg/L	11.84	2511.9 ppb	11.84	0.47%	
QC value within limits for P 214.914 Recovery = 100.47%							
Pb 220.353†	8270.9	508.03 µg/L	1.522	508.03 ppb	1.522	0.30%	
QC value within limits for Pb 220.353 Recovery = 101.61%							
S 181.975 Axial†	1226.5	1009.7 µg/L	8.51	1009.7 ppb	8.51	0.84%	
QC value within limits for S 181.975 Axial Recovery = 100.97%							
Sb 206.836†	3850.5	506.10 µg/L	3.554	506.10 ppb	3.554	0.70%	
QC value within limits for Sb 206.836 Recovery = 101.22%							
Se 196.026†	1268.9	510 µg/L	0.6	510 ppb	0.6	0.12%	
QC value within limits for Se 196.026 Recovery = 102.03%							
SiO2†	50149.7	5343.6 µg/L	13.94	5343.6 ppb	13.94	0.26%	
QC value within limits for SiO2 Recovery = 99.93%							
Si 251.611†	155194.9	2501.9 µg/L	5.38	2501.9 ppb	5.38	0.22%	
QC value within limits for Si 251.611 Recovery = 100.08%							
Sn 189.927†	7284.0	505.98 µg/L	3.457	505.98 ppb	3.457	0.68%	
QC value within limits for Sn 189.927 Recovery = 101.20%							
Sr 421.552†	220830.5	509.38 µg/L	1.559	509.38 ppb	1.559	0.31%	
QC value within limits for Sr 421.552 Recovery = 101.88%							
Ti 334.940†	502089.5	502.36 µg/L	0.693	502.36 ppb	0.693	0.14%	
QC value within limits for Ti 334.940 Recovery = 100.47%							
Tl 190.801†	3767.6	513.86 µg/L	2.039	513.86 ppb	2.039	0.40%	
QC value within limits for Tl 190.801 Recovery = 102.77%							
U 409.014†	7643.7	509.25 µg/L	1.021	509.25 ppb	1.021	0.20%	
QC value within limits for U 409.014 Recovery = 101.85%							
V 292.402†	94032.9	505.95 µg/L	1.080	505.95 ppb	1.080	0.21%	
QC value within limits for V 292.402 Recovery = 101.19%							
Zn 213.857†	81288.7	500.20 µg/L	1.251	500.20 ppb	1.251	0.25%	
QC value within limits for Zn 213.857 Recovery = 100.04%							
All analyte(s) passed QC.							

Sequence No.: 25

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/30/2010 18:02:23

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	151780.3	151780.3	103 %		18:02:52
1	Al 396.153Radial†	-40.0	24.0	4.9524 µg/L	4.9524 ppb	18:03:12
1	Ca 317.933Radial†	686.4	-29.4	-1.7696 µg/L	-1.7696 ppb	18:03:12
1	Fe 238.204 Radial†	138.6	-5.7	-0.3811 µg/L	-0.3811 ppb	18:03:12
1	K 766.490 Radial†	1436.1	85.9	35.363 µg/L	35.363 ppb	18:02:52
1	Mg 279.077 IEC†	184.5	10.9	4.4785 µg/L	4.4785 ppb	18:03:12
1	Na 589.592 Radial†	1347.1	105.4	15.979 µg/L	15.979 ppb	18:02:52
1	Sr 421.552†	-270.8	-42.1	-0.0972 µg/L	-0.0972 ppb	18:02:52
1	Sc 361.383	1751686.4	1751686.4	99.807 %		18:04:00
1	Y 371.029	1062037.8	1062037.8	99.811 %		18:04:00
1	Ag 328.068†	3543.8	103.6	0.4081 µg/L	0.4081 ppb	18:04:02
1	As 188.979†	-6.7	11.0	3.8356 µg/L	3.8356 ppb	18:04:22
1	B 249.677†	3203.3	-20.8	-0.3392 µg/L	-0.3392 ppb	18:04:22
1	Ba 233.527†	-132.2	29.7	0.1288 µg/L	0.1288 ppb	18:04:22
1	Be 313.107†	-392.0	392.8	0.1180 µg/L	0.1180 ppb	18:04:02
1	Cd 226.502†	-121.9	-12.1	-0.0830 µg/L	-0.0830 ppb	18:04:22
1	Co 228.616†	-168.7	3.4	0.0467 µg/L	0.0467 ppb	18:04:22
1	Cr 267.716†	150.1	-28.2	-0.2379 µg/L	-0.2379 ppb	18:04:22
1	Cu 324.752†	2898.1	114.8	0.4843 µg/L	0.4843 ppb	18:04:02
1	Mn 257.610†	183.2	8.0	0.0105 µg/L	0.0105 ppb	18:04:22
1	Mo 202.031†	-44.8	-10.1	-0.3221 µg/L	-0.3221 ppb	18:04:22
1	Ni 231.604†	-60.8	17.0	0.2132 µg/L	0.2132 ppb	18:04:22
1	P 214.914†	30.0	25.0	5.9711 µg/L	5.9711 ppb	18:04:22
1	Pb 220.353†	97.6	0.8	0.0491 µg/L	0.0491 ppb	18:04:22
1	S 181.975 Axial†	102.8	15.3	12.573 µg/L	12.573 ppb	18:04:22
1	Sb 206.836†	69.7	-8.2	-1.0769 µg/L	-1.0769 ppb	18:04:22
1	Se 196.026†	1.0	-12.6	-5.04 µg/L	-5.04 ppb	18:04:22
1	SiO2†	1676.0	-73.9	-7.9004 µg/L	-7.9004 ppb	18:04:22
1	Si 251.611†	923.1	-23.8	-0.3831 µg/L	-0.3831 ppb	18:04:02
1	Sn 189.927†	3.9	6.5	0.4467 µg/L	0.4467 ppb	18:04:22
1	Ti 334.940†	772.4	-111.7	-0.1124 µg/L	-0.1124 ppb	18:04:02
1	Tl 190.801†	-112.4	4.5	0.5986 µg/L	0.5986 ppb	18:04:22
1	U 409.014†	-275.1	8.2	0.4912 µg/L	0.4912 ppb	18:04:02
1	V 292.402†	243.1	-66.3	-0.3559 µg/L	-0.3559 ppb	18:04:02
1	Zn 213.857†	522.7	-0.8	-0.0070 µg/L	-0.0070 ppb	18:04:22
2	Sc RADIAL	150352.0	150352.0	102 %		18:03:14
2	Al 396.153Radial†	-78.4	-14.2	-2.9660 µg/L	-2.9660 ppb	18:03:34
2	Ca 317.933Radial†	672.3	-37.0	-2.2240 µg/L	-2.2240 ppb	18:03:34
2	Fe 238.204 Radial†	139.7	-3.3	-0.2234 µg/L	-0.2234 ppb	18:03:34
2	K 766.490 Radial†	1509.0	170.9	70.320 µg/L	70.320 ppb	18:03:14
2	Mg 279.077 IEC†	164.0	-7.5	-3.0724 µg/L	-3.0724 ppb	18:03:34
2	Na 589.592 Radial†	1365.9	136.4	20.649 µg/L	20.649 ppb	18:03:14
2	Sr 421.552†	-117.2	106.4	0.2454 µg/L	0.2454 ppb	18:03:14
2	Sc 361.383	1757278.8	1757278.8	100.13 %		18:04:24
2	Y 371.029	1064446.3	1064446.3	100.04 %		18:04:24
2	Ag 328.068†	3368.6	-82.7	-0.3398 µg/L	-0.3398 ppb	18:04:26
2	As 188.979†	-14.3	3.4	1.1966 µg/L	1.1966 ppb	18:04:47
2	B 249.677†	3190.2	-44.1	-0.7190 µg/L	-0.7190 ppb	18:04:47
2	Ba 233.527†	-159.9	2.4	0.0111 µg/L	0.0111 ppb	18:04:47
2	Be 313.107†	-887.5	-100.8	-0.0345 µg/L	-0.0345 ppb	18:04:26
2	Cd 226.502†	-82.6	27.6	0.1892 µg/L	0.1892 ppb	18:04:47
2	Co 228.616†	-168.5	4.1	0.0555 µg/L	0.0555 ppb	18:04:47
2	Cr 267.716†	132.4	-46.4	-0.3795 µg/L	-0.3795 ppb	18:04:47
2	Cu 324.752†	2643.9	-148.3	-0.6367 µg/L	-0.6367 ppb	18:04:26
2	Mn 257.610†	145.3	-30.4	-0.0405 µg/L	-0.0405 ppb	18:04:47
2	Mo 202.031†	-13.5	21.3	0.6781 µg/L	0.6781 ppb	18:04:47
2	Ni 231.604†	-77.1	0.9	0.0111 µg/L	0.0111 ppb	18:04:47
2	P 214.914†	12.5	7.5	1.7862 µg/L	1.7862 ppb	18:04:47
2	Pb 220.353†	85.7	-11.4	-0.6841 µg/L	-0.6841 ppb	18:04:47

2	S 181.975 Axial†	89.0	1.2	1.0157 µg/L	1.0157 ppb	18:04:47
2	Sb 206.836†	71.9	-6.3	-0.8105 µg/L	-0.8105 ppb	18:04:47
2	Se 196.026†	20.3	6.7	2.68 µg/L	2.68 ppb	18:04:47
2	SiO2†	1697.0	-58.3	-6.2667 µg/L	-6.2667 ppb	18:04:47
2	Si 251.611†	933.3	-16.5	-0.2813 µg/L	-0.2813 ppb	18:04:26
2	Sn 189.927†	8.4	10.9	0.7577 µg/L	0.7577 ppb	18:04:47
2	Ti 334.940†	879.7	-7.0	-0.0010 µg/L	-0.0010 ppb	18:04:26
2	Tl 190.801†	-114.8	2.4	0.3234 µg/L	0.3234 ppb	18:04:47
2	U 409.014†	-507.2	-222.8	-13.924 µg/L	-13.924 ppb	18:04:26
2	V 292.402†	406.8	96.4	0.5080 µg/L	0.5080 ppb	18:04:26
2	Zn 213.857†	527.3	2.1	0.0134 µg/L	0.0134 ppb	18:04:47
3	Sc RADIAL	152318.3	152318.3	103 %		18:03:36
3	Al 396.153Radial†	-73.0	-8.0	-1.6470 µg/L	-1.6470 ppb	18:03:56
3	Ca 317.933Radial†	695.1	-23.4	-1.4076 µg/L	-1.4076 ppb	18:03:56
3	Fe 238.204 Radial†	147.7	2.7	0.1805 µg/L	0.1805 ppb	18:03:56
3	K 766.490 Radial†	1471.4	115.2	47.414 µg/L	47.414 ppb	18:03:36
3	Mg 279.077 IEC†	138.4	-34.5	-14.137 µg/L	-14.137 ppb	18:03:56
3	Na 589.592 Radial†	1413.1	164.8	24.982 µg/L	24.982 ppb	18:03:36
3	Sr 421.552†	-177.7	49.2	0.1135 µg/L	0.1135 ppb	18:03:36
3	Sc 361.383	1761711.7	1761711.7	100.38 %		18:04:49
3	Y 371.029	1067001.7	1067001.7	100.28 %		18:04:49
3	Ag 328.068†	3547.8	87.4	0.3472 µg/L	0.3472 ppb	18:04:51
3	As 188.979†	-20.0	-2.2	-0.7857 µg/L	-0.7857 ppb	18:05:11
3	B 249.677†	3230.5	-12.0	-0.1957 µg/L	-0.1957 ppb	18:05:11
3	Ba 233.527†	-162.5	0.3	0.0006 µg/L	0.0006 ppb	18:05:11
3	Be 313.107†	-908.1	-119.1	-0.0335 µg/L	-0.0335 ppb	18:04:51
3	Cd 226.502†	-93.1	17.3	0.1188 µg/L	0.1188 ppb	18:05:11
3	Co 228.616†	-181.8	-8.7	-0.1171 µg/L	-0.1171 ppb	18:05:11
3	Cr 267.716†	129.9	-49.1	-0.4200 µg/L	-0.4200 ppb	18:05:11
3	Cu 324.752†	2666.8	-132.2	-0.5513 µg/L	-0.5513 ppb	18:04:51
3	Mn 257.610†	186.9	10.6	0.0148 µg/L	0.0148 ppb	18:05:11
3	Mo 202.031†	-35.8	-0.9	-0.0304 µg/L	-0.0304 ppb	18:05:11
3	Ni 231.604†	-74.5	3.7	0.0466 µg/L	0.0466 ppb	18:05:11
3	P 214.914†	5.9	0.9	0.2218 µg/L	0.2218 ppb	18:05:11
3	Pb 220.353†	74.9	-22.4	-1.3753 µg/L	-1.3753 ppb	18:05:11
3	S 181.975 Axial†	84.5	-3.5	-2.8453 µg/L	-2.8453 ppb	18:05:11
3	Sb 206.836†	72.9	-5.4	-0.7086 µg/L	-0.7086 ppb	18:05:11
3	Se 196.026†	13.4	-0.2	-0.085 µg/L	-0.085 ppb	18:05:11
3	SiO2†	1672.5	-86.9	-9.3016 µg/L	-9.3016 ppb	18:05:11
3	Si 251.611†	708.7	-242.6	-3.9283 µg/L	-3.9283 ppb	18:04:51
3	Sn 189.927†	1.8	4.4	0.3022 µg/L	0.3022 ppb	18:05:11
3	Ti 334.940†	729.1	-159.2	-0.1613 µg/L	-0.1613 ppb	18:04:51
3	Tl 190.801†	-107.3	10.2	1.3632 µg/L	1.3632 ppb	18:05:11
3	U 409.014†	-165.7	118.7	7.3880 µg/L	7.3880 ppb	18:04:51
3	V 292.402†	163.6	-146.8	-0.7764 µg/L	-0.7764 ppb	18:04:51
3	Zn 213.857†	510.6	-15.9	-0.0986 µg/L	-0.0986 ppb	18:05:11

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1756892.3	100.10 %	0.286			0.29%
Sc RADIAL	151483.5	102 %	0.7			0.67%
Y 371.029	1064495.3	100.04 %	0.233			0.23%
Ag 328.068†	36.1	0.1385 µg/L	0.41530	0.1385 ppb	0.41530	299.88%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	0.6	0.1131 µg/L	4.24252	0.1131 ppb	4.24252	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	4.1	1.4155 µg/L	2.31844	1.4155 ppb	2.31844	163.79%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-25.6	-0.4180 µg/L	0.27043	-0.4180 ppb	0.27043	64.70%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	10.8	0.0468 µg/L	0.07118	0.0468 ppb	0.07118	151.98%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	57.6	0.0167 µg/L	0.08778	0.0167 ppb	0.08778	525.94%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-29.9	-1.8004 µg/L	0.40907	-1.8004 ppb	0.40907	22.72%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	10.9	0.0750 µg/L	0.14131	0.0750 ppb	0.14131	188.36%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-0.4	-0.0050 µg/L	0.09722	-0.0050 ppb	0.09722	>999.9%



QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-41.2	-0.3458 µg/L	0.09558	-0.3458 ppb	0.09558	27.64%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-55.2	-0.2346 µg/L	0.62400	-0.2346 ppb	0.62400	266.01%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-2.1	-0.1413 µg/L	0.28967	-0.1413 ppb	0.28967	204.94%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	124.0	51.032 µg/L	17.7573	51.032 ppb	17.7573	34.80%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-10.4	-4.2437 µg/L	9.36298	-4.2437 ppb	9.36298	220.63%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-3.9	-0.0051 µg/L	0.03077	-0.0051 ppb	0.03077	603.93%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	3.4	0.1085 µg/L	0.51436	0.1085 ppb	0.51436	474.00%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	135.5	20.537 µg/L	4.5028	20.537 ppb	4.5028	21.93%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	7.2	0.0903 µg/L	0.10791	0.0903 ppb	0.10791	119.51%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	11.1	2.6597 µg/L	2.97253	2.6597 ppb	2.97253	111.76%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-11.0	-0.6701 µg/L	0.71232	-0.6701 ppb	0.71232	106.30%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	4.4	3.5812 µg/L	8.02299	3.5812 ppb	8.02299	224.03%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-6.7	-0.8653 µg/L	0.19019	-0.8653 ppb	0.19019	21.98%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-2.0	-0.816 µg/L	3.9132	-0.816 ppb	3.9132	479.71%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-73.0	-7.8229 µg/L	1.51896	-7.8229 ppb	1.51896	19.42%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	-94.3	-1.5309 µg/L	2.07685	-1.5309 ppb	2.07685	135.66%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	7.3	0.5022 µg/L	0.23278	0.5022 ppb	0.23278	46.36%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	37.8	0.0872 µg/L	0.17279	0.0872 ppb	0.17279	198.10%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-92.6	-0.0916 µg/L	0.08215	-0.0916 ppb	0.08215	89.72%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	5.7	0.7617 µg/L	0.53874	0.7617 ppb	0.53874	70.73%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-32.0	-2.0149 µg/L	10.87474	-2.0149 ppb	10.87474	539.72%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-38.9	-0.2081 µg/L	0.65482	-0.2081 ppb	0.65482	314.64%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-4.9	-0.0308 µg/L	0.05967	-0.0308 ppb	0.05967	194.02%	
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.





QC value within limits for Co 228.616 Recovery = 101.09%							
Cr 267.716†	59400.8	500.36 µg/L	1.266	500.36 ppb	1.266	0.25%	
QC value within limits for Cr 267.716 Recovery = 100.07%							
Cu 324.752†	118463.1	500.75 µg/L	0.867	500.75 ppb	0.867	0.17%	
QC value within limits for Cu 324.752 Recovery = 100.15%							
Fe 238.204 Radial†	75139.6	5056.0 µg/L	11.02	5056.0 ppb	11.02	0.22%	
QC value within limits for Fe 238.204 Radial Recovery = 101.12%							
K 766.490 Radial†	12363.8	5084.3 µg/L	58.76	5084.3 ppb	58.76	1.16%	
QC value within limits for K 766.490 Radial Recovery = 101.69%							
Mg 279.077 IEC†	12618.8	5184.4 µg/L	35.29	5184.4 ppb	35.29	0.68%	
QC value within limits for Mg 279.077 IEC Recovery = 103.69%							
Mn 257.610†	376833.2	503.46 µg/L	1.062	503.46 ppb	1.062	0.21%	
QC value within limits for Mn 257.610 Recovery = 100.69%							
Mo 202.031†	15774.9	502.25 µg/L	3.598	502.25 ppb	3.598	0.72%	
QC value within limits for Mo 202.031 Recovery = 100.45%							
Na 589.592 Radial†	66386.0	10076 µg/L	48.2	10076 ppb	48.2	0.48%	
QC value within limits for Na 589.592 Radial Recovery = 100.76%							
Ni 231.604†	40163.3	505.16 µg/L	2.055	505.16 ppb	2.055	0.41%	
QC value within limits for Ni 231.604 Recovery = 101.03%							
P 214.914†	10520.5	2500.8 µg/L	19.31	2500.8 ppb	19.31	0.77%	
QC value within limits for P 214.914 Recovery = 100.03%							
Pb 220.353†	8234.3	505.78 µg/L	3.642	505.78 ppb	3.642	0.72%	
QC value within limits for Pb 220.353 Recovery = 101.16%							
S 181.975 Axial†	1224.2	1007.8 µg/L	10.15	1007.8 ppb	10.15	1.01%	
QC value within limits for S 181.975 Axial Recovery = 100.78%							
Sb 206.836†	3824.8	502.68 µg/L	3.437	502.68 ppb	3.437	0.68%	
QC value within limits for Sb 206.836 Recovery = 100.54%							
Se 196.026†	1241.5	499 µg/L	6.7	499 ppb	6.7	1.34%	
QC value within limits for Se 196.026 Recovery = 99.84%							
SiO2†	50141.9	5342.9 µg/L	9.66	5342.9 ppb	9.66	0.18%	
QC value within limits for SiO2 Recovery = 99.91%							
Si 251.611†	155235.9	2502.7 µg/L	7.31	2502.7 ppb	7.31	0.29%	
QC value within limits for Si 251.611 Recovery = 100.11%							
Sn 189.927†	7265.8	504.71 µg/L	3.301	504.71 ppb	3.301	0.65%	
QC value within limits for Sn 189.927 Recovery = 100.94%							
Sr 421.552†	220647.4	508.96 µg/L	1.659	508.96 ppb	1.659	0.33%	
QC value within limits for Sr 421.552 Recovery = 101.79%							
Ti 334.940†	501062.0	501.33 µg/L	1.289	501.33 ppb	1.289	0.26%	
QC value within limits for Ti 334.940 Recovery = 100.27%							
Tl 190.801†	3738.5	509.93 µg/L	3.117	509.93 ppb	3.117	0.61%	
QC value within limits for Tl 190.801 Recovery = 101.99%							
U 409.014†	7644.4	509.21 µg/L	9.876	509.21 ppb	9.876	1.94%	
QC value within limits for U 409.014 Recovery = 101.84%							
V 292.402†	93750.9	504.42 µg/L	1.281	504.42 ppb	1.281	0.25%	
QC value within limits for V 292.402 Recovery = 100.88%							
Zn 213.857†	81278.7	500.13 µg/L	1.987	500.13 ppb	1.987	0.40%	
QC value within limits for Zn 213.857 Recovery = 100.03%							
All analyte(s) passed QC.							

Sequence No.: 33

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/30/2010 18:24:15

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	151481.5	151481.5	102 %		18:24:44
1	Al 396.153Radial†	-44.9	19.1	3.9141 µg/L	3.9141 ppb	18:25:04
1	Ca 317.933Radial†	703.4	-11.5	-0.6936 µg/L	-0.6936 ppb	18:25:04
1	Fe 238.204 Radial†	144.3	0.2	0.0103 µg/L	0.0103 ppb	18:25:04
1	K 766.490 Radial†	1391.8	45.4	18.695 µg/L	18.695 ppb	18:24:44
1	Mg 279.077 IEC†	155.2	-17.3	-7.0896 µg/L	-7.0896 ppb	18:25:04
1	Na 589.592 Radial†	1546.4	302.4	45.909 µg/L	45.909 ppb	18:24:44
1	Sr 421.552†	-139.8	85.3	0.1967 µg/L	0.1967 ppb	18:24:44
1	Sc 361.383	1786387.6	1786387.6	101.78 %		18:26:06
1	Y 371.029	1081565.1	1081565.1	101.65 %		18:26:06
1	Ag 328.068†	3253.7	-250.4	-0.9846 µg/L	-0.9846 ppb	18:26:08
1	As 188.979†	-20.6	-2.5	-0.8813 µg/L	-0.8813 ppb	18:26:28
1	B 249.677†	3222.1	-64.7	-1.0549 µg/L	-1.0549 ppb	18:26:28
1	Ba 233.527†	-172.2	-7.0	-0.0304 µg/L	-0.0304 ppb	18:26:28
1	Be 313.107†	-742.7	55.9	0.0186 µg/L	0.0186 ppb	18:26:08
1	Cd 226.502†	-96.4	15.3	0.1051 µg/L	0.1051 ppb	18:26:28
1	Co 228.616†	-164.3	11.0	0.1490 µg/L	0.1490 ppb	18:26:28
1	Cr 267.716†	131.5	-49.4	-0.4208 µg/L	-0.4208 ppb	18:26:28
1	Cu 324.752†	2775.2	-62.3	-0.2578 µg/L	-0.2578 ppb	18:26:08
1	Mn 257.610†	182.1	3.4	0.0048 µg/L	0.0048 ppb	18:26:28
1	Mo 202.031†	-24.2	11.0	0.3493 µg/L	0.3493 ppb	18:26:28
1	Ni 231.604†	-98.1	-18.5	-0.2326 µg/L	-0.2326 ppb	18:26:28
1	P 214.914†	18.4	13.0	3.1135 µg/L	3.1135 ppb	18:26:28
1	Pb 220.353†	78.2	-20.1	-1.2353 µg/L	-1.2353 ppb	18:26:28
1	S 181.975 Axial†	82.8	-6.4	-5.2318 µg/L	-5.2318 ppb	18:26:28
1	Sb 206.836†	53.8	-25.2	-3.2907 µg/L	-3.2907 ppb	18:26:28
1	Se 196.026†	18.0	4.1	1.64 µg/L	1.64 ppb	18:26:28
1	SiO2†	1695.5	-87.4	-9.3595 µg/L	-9.3595 ppb	18:26:28
1	Si 251.611†	801.6	-161.1	-2.6135 µg/L	-2.6135 ppb	18:26:28
1	Sn 189.927†	-0.6	2.0	0.1362 µg/L	0.1362 ppb	18:26:28
1	Ti 334.940†	733.4	-165.0	-0.1671 µg/L	-0.1671 ppb	18:26:08
1	Tl 190.801†	-99.2	19.6	2.6315 µg/L	2.6315 ppb	18:26:28
1	U 409.014†	-191.1	96.0	6.0290 µg/L	6.0290 ppb	18:26:08
1	V 292.402†	368.9	52.6	0.2853 µg/L	0.2853 ppb	18:26:08
1	Zn 213.857†	544.7	10.6	0.0675 µg/L	0.0675 ppb	18:26:28
2	Sc RADIAL	150730.3	150730.3	102 %		18:25:06
2	Al 396.153Radial†	-41.0	22.6	4.6498 µg/L	4.6498 ppb	18:25:26
2	Ca 317.933Radial†	715.4	3.6	0.2184 µg/L	0.2184 ppb	18:25:26
2	Fe 238.204 Radial†	157.4	13.6	0.9183 µg/L	0.9183 ppb	18:25:26
2	K 766.490 Radial†	1502.6	160.9	66.196 µg/L	66.196 ppb	18:25:06
2	Mg 279.077 IEC†	187.3	14.9	6.1063 µg/L	6.1063 ppb	18:25:26
2	Na 589.592 Radial†	1455.4	220.8	33.463 µg/L	33.463 ppb	18:25:06
2	Sr 421.552†	-242.3	-16.0	-0.0370 µg/L	-0.0370 ppb	18:25:06
2	Sc 361.383	1760065.9	1760065.9	100.28 %		18:26:30
2	Y 371.029	1065993.9	1065993.9	100.18 %		18:26:30
2	Ag 328.068†	3460.6	3.7	0.0060 µg/L	0.0060 ppb	18:26:32
2	As 188.979†	-7.3	10.4	3.6164 µg/L	3.6164 ppb	18:26:53
2	B 249.677†	3203.2	-36.2	-0.5899 µg/L	-0.5899 ppb	18:26:53
2	Ba 233.527†	-163.0	-0.4	-0.0017 µg/L	-0.0017 ppb	18:26:53
2	Be 313.107†	-683.2	104.3	0.0293 µg/L	0.0293 ppb	18:26:32
2	Cd 226.502†	-99.5	10.8	0.0741 µg/L	0.0741 ppb	18:26:53
2	Co 228.616†	-181.6	-8.7	-0.1175 µg/L	-0.1175 ppb	18:26:53
2	Cr 267.716†	164.1	-14.9	-0.1204 µg/L	-0.1204 ppb	18:26:53
2	Cu 324.752†	2709.5	-87.2	-0.3726 µg/L	-0.3726 ppb	18:26:32
2	Mn 257.610†	182.8	6.7	0.0087 µg/L	0.0087 ppb	18:26:53
2	Mo 202.031†	-25.1	9.7	0.3092 µg/L	0.3092 ppb	18:26:53
2	Ni 231.604†	-64.3	13.8	0.1730 µg/L	0.1730 ppb	18:26:53
2	P 214.914†	22.4	17.4	4.1462 µg/L	4.1462 ppb	18:26:53
2	Pb 220.353†	92.2	-5.0	-0.3025 µg/L	-0.3025 ppb	18:26:53



QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-30.5	-0.2523 µg/L	0.15355	-0.2523 ppb	0.15355	60.87%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-39.7	-0.1723 µg/L	0.25414	-0.1723 ppb	0.25414	147.52%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	10.9	0.7328 µg/L	0.64991	0.7328 ppb	0.64991	88.69%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	102.3	42.098 µg/L	23.7579	42.098 ppb	23.7579	56.43%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.9	0.3953 µg/L	6.77447	0.3953 ppb	6.77447	>999.9%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	14.3	0.0190 µg/L	0.02134	0.0190 ppb	0.02134	112.13%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	10.9	0.3462 µg/L	0.03551	0.3462 ppb	0.03551	10.26%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	229.7	34.842 µg/L	10.4465	34.842 ppb	10.4465	29.98%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-0.9	-0.0108 µg/L	0.20546	-0.0108 ppb	0.20546	>999.9%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	17.9	4.2757 µg/L	1.23201	4.2757 ppb	1.23201	28.81%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-13.9	-0.8437 µg/L	0.48412	-0.8437 ppb	0.48412	57.38%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	2.5	2.0580 µg/L	6.44726	2.0580 ppb	6.44726	313.27%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-3.2	-0.4150 µg/L	2.84832	-0.4150 ppb	2.84832	686.36%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	6.5	2.60 µg/L	1.079	2.60 ppb	1.079	41.43%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-49.1	-5.2737 µg/L	4.21292	-5.2737 ppb	4.21292	79.89%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	-171.1	-2.7782 µg/L	0.29704	-2.7782 ppb	0.29704	10.69%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	9.3	0.6414 µg/L	0.50410	0.6414 ppb	0.50410	78.59%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	0.2	0.0004 µg/L	0.18057	0.0004 ppb	0.18057	>999.9%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-56.7	-0.0543 µg/L	0.25495	-0.0543 ppb	0.25495	469.48%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	7.3	0.9773 µg/L	2.35152	0.9773 ppb	2.35152	240.62%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-96.7	-6.0490 µg/L	11.76353	-6.0490 ppb	11.76353	194.47%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	18.8	0.0984 µg/L	0.16521	0.0984 ppb	0.16521	167.96%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	21.1	0.1312 µg/L	0.08653	0.1312 ppb	0.08653	65.94%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
All analyte(s) passed QC.							







Cr	267.716†	59388.7	500.26 µg/L	1.267	500.26 ppb	1.267	0.25%
QC value within limits for Co 228.616 Recovery = 101.27%							
Cu	324.752†	118869.4	502.46 µg/L	0.712	502.46 ppb	0.712	0.14%
QC value within limits for Cr 267.716 Recovery = 100.05%							
Fe	238.204 Radial†	75193.0	5059.6 µg/L	4.27	5059.6 ppb	4.27	0.08%
QC value within limits for Cu 324.752 Recovery = 100.49%							
K	766.490 Radial†	12528.6	5152.1 µg/L	47.75	5152.1 ppb	47.75	0.93%
QC value within limits for Fe 238.204 Radial Recovery = 101.19%							
Mg	279.077 IEC†	12683.5	5211.0 µg/L	11.44	5211.0 ppb	11.44	0.22%
QC value within limits for K 766.490 Radial Recovery = 103.04%							
Mn	257.610†	377415.2	504.24 µg/L	1.168	504.24 ppb	1.168	0.23%
QC value within limits for Mg 279.077 IEC Recovery = 104.22%							
Mo	202.031†	15793.7	502.84 µg/L	2.799	502.84 ppb	2.799	0.56%
QC value within limits for Mn 257.610 Recovery = 100.85%							
Na	589.592 Radial†	66464.2	10088 µg/L	7.7	10088 ppb	7.7	0.08%
QC value within limits for Mo 202.031 Recovery = 100.57%							
Ni	231.604†	40156.2	505.07 µg/L	1.072	505.07 ppb	1.072	0.21%
QC value within limits for Na 589.592 Radial Recovery = 100.88%							
P	214.914†	10535.9	2504.4 µg/L	13.15	2504.4 ppb	13.15	0.53%
QC value within limits for Ni 231.604 Recovery = 101.01%							
Pb	220.353†	8252.1	506.87 µg/L	1.754	506.87 ppb	1.754	0.35%
QC value within limits for P 214.914 Recovery = 100.18%							
S	181.975 Axial†	1228.2	1011.0 µg/L	3.50	1011.0 ppb	3.50	0.35%
QC value within limits for Pb 220.353 Recovery = 101.37%							
Sb	206.836†	3821.4	502.24 µg/L	4.267	502.24 ppb	4.267	0.85%
QC value within limits for S 181.975 Axial Recovery = 101.10%							
Se	196.026†	1259.8	506 µg/L	4.6	506 ppb	4.6	0.91%
QC value within limits for Sb 206.836 Recovery = 100.45%							
SiO2†		50177.9	5346.7 µg/L	15.70	5346.7 ppb	15.70	0.29%
QC value within limits for Se 196.026 Recovery = 101.30%							
Si	251.611†	155513.8	2507.2 µg/L	3.31	2507.2 ppb	3.31	0.13%
QC value within limits for SiO2 Recovery = 99.98%							
Sn	189.927†	7273.9	505.28 µg/L	3.042	505.28 ppb	3.042	0.60%
QC value within limits for Si 251.611 Recovery = 100.29%							
Sr	421.552†	221735.2	511.47 µg/L	5.371	511.47 ppb	5.371	1.05%
QC value within limits for Sn 189.927 Recovery = 101.06%							
Ti	334.940†	502345.5	502.61 µg/L	0.814	502.61 ppb	0.814	0.16%
QC value within limits for Sr 421.552 Recovery = 102.29%							
Tl	190.801†	3748.7	511.33 µg/L	2.791	511.33 ppb	2.791	0.55%
QC value within limits for Ti 334.940 Recovery = 100.52%							
U	409.014†	7601.9	506.66 µg/L	14.213	506.66 ppb	14.213	2.81%
QC value within limits for Tl 190.801 Recovery = 102.27%							
V	292.402†	94103.2	506.29 µg/L	0.715	506.29 ppb	0.715	0.14%
QC value within limits for U 409.014 Recovery = 101.33%							
Zn	213.857†	81326.6	500.43 µg/L	2.000	500.43 ppb	2.000	0.40%
QC value within limits for V 292.402 Recovery = 101.26%							
QC value within limits for Zn 213.857 Recovery = 100.09%							

All analyte(s) passed QC.

Sequence No.: 41

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/30/2010 18:46:28

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	152151.4	152151.4	103 %		18:46:57
1	Al 396.153Radial†	-67.1	-2.4	-0.4866 µg/L	-0.4866 ppb	18:47:17
1	Ca 317.933Radial†	723.2	4.6	0.2792 µg/L	0.2792 ppb	18:47:17
1	Fe 238.204 Radial†	139.3	-5.4	-0.3626 µg/L	-0.3626 ppb	18:47:17
1	K 766.490 Radial†	1576.7	219.1	90.185 µg/L	90.185 ppb	18:46:57
1	Mg 279.077 IEC†	162.8	-10.6	-4.3553 µg/L	-4.3553 ppb	18:47:17
1	Na 589.592 Radial†	1352.0	106.9	16.159 µg/L	16.159 ppb	18:46:57
1	Sr 421.552†	-249.3	-20.5	-0.0474 µg/L	-0.0474 ppb	18:46:57
1	Sc 361.383	1776193.8	1776193.8	101.20 %		18:48:05
1	Y 371.029	1075054.5	1075054.5	101.03 %		18:48:05
1	Ag 328.068†	3524.3	35.3	0.1446 µg/L	0.1446 ppb	18:48:07
1	As 188.979†	-20.3	-2.4	-0.8343 µg/L	-0.8343 ppb	18:48:27
1	B 249.677†	3223.3	-45.4	-0.7407 µg/L	-0.7407 ppb	18:48:27
1	Ba 233.527†	-158.9	5.2	0.0225 µg/L	0.0225 ppb	18:48:27
1	Be 313.107†	-661.4	132.0	0.0404 µg/L	0.0404 ppb	18:48:07
1	Cd 226.502†	-95.7	15.5	0.1063 µg/L	0.1063 ppb	18:48:27
1	Co 228.616†	-167.1	7.3	0.0989 µg/L	0.0989 ppb	18:48:27
1	Cr 267.716†	161.1	-19.4	-0.1655 µg/L	-0.1655 ppb	18:48:27
1	Cu 324.752†	2875.2	52.1	0.2215 µg/L	0.2215 ppb	18:48:07
1	Mn 257.610†	153.8	-23.6	-0.0314 µg/L	-0.0314 ppb	18:48:27
1	Mo 202.031†	-33.8	1.4	0.0444 µg/L	0.0444 ppb	18:48:27
1	Ni 231.604†	-77.2	1.6	0.0199 µg/L	0.0199 ppb	18:48:27
1	P 214.914†	22.8	17.6	4.1940 µg/L	4.1940 ppb	18:48:27
1	Pb 220.353†	96.4	-1.7	-0.1045 µg/L	-0.1045 ppb	18:48:27
1	S 181.975 Axial†	88.1	-0.6	-0.5041 µg/L	-0.5041 ppb	18:48:27
1	Sb 206.836†	76.5	-2.5	-0.3283 µg/L	-0.3283 ppb	18:48:27
1	Se 196.026†	13.2	-0.5	-0.208 µg/L	-0.208 ppb	18:48:27
1	SiO2†	1699.4	-74.0	-7.9264 µg/L	-7.9264 ppb	18:48:27
1	Si 251.611†	786.3	-171.7	-2.7844 µg/L	-2.7844 ppb	18:48:27
1	Sn 189.927†	7.1	9.6	0.6613 µg/L	0.6613 ppb	18:48:27
1	Ti 334.940†	700.9	-193.0	-0.1940 µg/L	-0.1940 ppb	18:48:07
1	Tl 190.801†	-115.5	2.9	0.3924 µg/L	0.3924 ppb	18:48:27
1	U 409.014†	-246.0	40.6	2.5516 µg/L	2.5516 ppb	18:48:07
1	V 292.402†	334.3	20.5	0.1104 µg/L	0.1104 ppb	18:48:07
1	Zn 213.857†	506.1	-24.5	-0.1524 µg/L	-0.1524 ppb	18:48:27
2	Sc RADIAL	152975.4	152975.4	103 %		18:47:19
2	Al 396.153Radial†	-44.1	20.3	4.1794 µg/L	4.1794 ppb	18:47:39
2	Ca 317.933Radial†	734.0	11.3	0.6795 µg/L	0.6795 ppb	18:47:39
2	Fe 238.204 Radial†	154.4	8.5	0.5744 µg/L	0.5744 ppb	18:47:39
2	K 766.490 Radial†	1543.9	179.1	73.713 µg/L	73.713 ppb	18:47:19
2	Mg 279.077 IEC†	193.7	18.4	7.5387 µg/L	7.5387 ppb	18:47:39
2	Na 589.592 Radial†	1470.0	213.9	32.411 µg/L	32.411 ppb	18:47:19
2	Sr 421.552†	-231.5	-2.1	-0.0048 µg/L	-0.0048 ppb	18:47:19
2	Sc 361.383	1767919.1	1767919.1	100.73 %		18:48:29
2	Y 371.029	1069730.4	1069730.4	100.53 %		18:48:29
2	Ag 328.068†	3557.8	84.9	0.3368 µg/L	0.3368 ppb	18:48:31
2	As 188.979†	-5.0	12.7	4.4277 µg/L	4.4277 ppb	18:48:52
2	B 249.677†	3268.3	14.2	0.2331 µg/L	0.2331 ppb	18:48:52
2	Ba 233.527†	-146.9	16.3	0.0713 µg/L	0.0713 ppb	18:48:52
2	Be 313.107†	-906.0	-113.8	-0.0363 µg/L	-0.0363 ppb	18:48:31
2	Cd 226.502†	-99.1	11.6	0.0799 µg/L	0.0799 ppb	18:48:52
2	Co 228.616†	-196.6	-22.8	-0.3079 µg/L	-0.3079 ppb	18:48:52
2	Cr 267.716†	195.1	15.2	0.1334 µg/L	0.1334 ppb	18:48:52
2	Cu 324.752†	2555.5	-252.0	-1.0674 µg/L	-1.0674 ppb	18:48:31
2	Mn 257.610†	206.5	29.4	0.0390 µg/L	0.0390 ppb	18:48:52
2	Mo 202.031†	-33.2	1.8	0.0577 µg/L	0.0577 ppb	18:48:52
2	Ni 231.604†	-77.9	0.6	0.0071 µg/L	0.0071 ppb	18:48:52
2	P 214.914†	0.4	-4.6	-1.0826 µg/L	-1.0826 ppb	18:48:52
2	Pb 220.353†	74.2	-23.3	-1.4180 µg/L	-1.4180 ppb	18:48:52

2	S 181.975 Axial†	84.8	-3.5	-2.8472 µg/L	-2.8472 ppb	18:48:52
2	Sb 206.836†	71.0	-7.6	-0.9970 µg/L	-0.9970 ppb	18:48:52
2	Se 196.026†	8.0	-5.7	-2.27 µg/L	-2.27 ppb	18:48:52
2	SiO2†	1684.6	-80.8	-8.6508 µg/L	-8.6508 ppb	18:48:52
2	Si 251.611†	813.4	-141.2	-2.2907 µg/L	-2.2907 ppb	18:48:52
2	Sn 189.927†	6.9	9.4	0.6484 µg/L	0.6484 ppb	18:48:52
2	Ti 334.940†	691.3	-199.3	-0.1974 µg/L	-0.1974 ppb	18:48:31
2	Tl 190.801†	-97.1	20.6	2.7783 µg/L	2.7783 ppb	18:48:52
2	U 409.014†	-398.1	-111.5	-6.9419 µg/L	-6.9419 ppb	18:48:31
2	V 292.402†	439.9	126.9	0.6702 µg/L	0.6702 ppb	18:48:31
2	Zn 213.857†	533.3	4.8	0.0308 µg/L	0.0308 ppb	18:48:52
3	Sc RADIAL	149946.4	149946.4	101 %		18:47:41
3	Al 396.153Radial†	-51.6	12.0	2.4586 µg/L	2.4586 ppb	18:48:01
3	Ca 317.933Radial†	728.7	20.4	1.2296 µg/L	1.2296 ppb	18:48:01
3	Fe 238.204 Radial†	139.6	-3.1	-0.2094 µg/L	-0.2094 ppb	18:48:01
3	K 766.490 Radial†	1529.8	195.4	80.397 µg/L	80.397 ppb	18:47:41
3	Mg 279.077 IEC†	170.9	-0.3	-0.1102 µg/L	-0.1102 ppb	18:48:01
3	Na 589.592 Radial†	1439.5	212.5	32.198 µg/L	32.198 ppb	18:47:41
3	Sr 421.552†	-138.5	85.1	0.1964 µg/L	0.1964 ppb	18:47:41
3	Sc 361.383	1784036.1	1784036.1	101.65 %		18:48:54
3	Y 371.029	1079647.7	1079647.7	101.47 %		18:48:54
3	Ag 328.068†	3448.6	-54.5	-0.2117 µg/L	-0.2117 ppb	18:48:56
3	As 188.979†	2.4	20.0	6.9895 µg/L	6.9895 ppb	18:49:16
3	B 249.677†	3233.0	-49.8	-0.8123 µg/L	-0.8123 ppb	18:49:16
3	Ba 233.527†	-137.1	27.3	0.1195 µg/L	0.1195 ppb	18:49:16
3	Be 313.107†	-489.6	303.9	0.0900 µg/L	0.0900 ppb	18:48:56
3	Cd 226.502†	-113.5	-1.6	-0.0113 µg/L	-0.0113 ppb	18:49:16
3	Co 228.616†	-174.8	0.5	0.0069 µg/L	0.0069 ppb	18:49:16
3	Cr 267.716†	195.3	13.5	0.1177 µg/L	0.1177 ppb	18:49:16
3	Cu 324.752†	2762.6	-71.2	-0.3033 µg/L	-0.3033 ppb	18:48:56
3	Mn 257.610†	176.9	-1.5	-0.0020 µg/L	-0.0020 ppb	18:49:16
3	Mo 202.031†	-20.5	14.6	0.4650 µg/L	0.4650 ppb	18:49:16
3	Ni 231.604†	-71.1	8.0	0.1000 µg/L	0.1000 ppb	18:49:16
3	P 214.914†	16.2	11.0	2.6159 µg/L	2.6159 ppb	18:49:16
3	Pb 220.353†	87.3	-11.1	-0.6739 µg/L	-0.6739 ppb	18:49:16
3	S 181.975 Axial†	85.3	-3.7	-3.0600 µg/L	-3.0600 ppb	18:49:16
3	Sb 206.836†	81.3	1.9	0.2513 µg/L	0.2513 ppb	18:49:16
3	Se 196.026†	9.5	-4.2	-1.68 µg/L	-1.68 ppb	18:49:16
3	SiO2†	1690.3	-90.3	-9.6793 µg/L	-9.6793 ppb	18:49:16
3	Si 251.611†	764.8	-196.3	-3.1853 µg/L	-3.1853 ppb	18:49:16
3	Sn 189.927†	2.4	4.9	0.3369 µg/L	0.3369 ppb	18:49:16
3	Ti 334.940†	691.1	-205.7	-0.2044 µg/L	-0.2044 ppb	18:48:56
3	Tl 190.801†	-116.1	2.9	0.3899 µg/L	0.3899 ppb	18:49:16
3	U 409.014†	-352.9	-63.4	-3.9241 µg/L	-3.9241 ppb	18:48:56
3	V 292.402†	470.0	152.5	0.8126 µg/L	0.8126 ppb	18:48:56
3	Zn 213.857†	527.9	-5.2	-0.0327 µg/L	-0.0327 ppb	18:49:16

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1776049.6	101.19 %	0.459			0.45%
Sc RADIAL	151691.1	103 %	1.1			1.03%
Y 371.029	1074810.9	101.01 %	0.466			0.46%
Ag 328.068†	21.9	0.0899 µg/L	0.27831	0.0899 ppb	0.27831	309.55%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	10.0	2.0504 µg/L	2.35962	2.0504 ppb	2.35962	115.08%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	10.1	3.5276 µg/L	3.98879	3.5276 ppb	3.98879	113.07%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-27.0	-0.4400 µg/L	0.58399	-0.4400 ppb	0.58399	132.74%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	16.2	0.0711 µg/L	0.04850	0.0711 ppb	0.04850	68.21%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	107.4	0.0314 µg/L	0.06362	0.0314 ppb	0.06362	202.76%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	12.1	0.7294 µg/L	0.47719	0.7294 ppb	0.47719	65.42%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	8.5	0.0583 µg/L	0.06168	0.0583 ppb	0.06168	105.76%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-5.0	-0.0674 µg/L	0.21331	-0.0674 ppb	0.21331	316.70%

QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	3.1	0.0285 µg/L	0.16821	0.0285 ppb	0.16821	590.04%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-90.4	-0.3831 µg/L	0.64818	-0.3831 ppb	0.64818	169.21%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	0.0	0.0008 µg/L	0.50262	0.0008 ppb	0.50262	>999.9%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	197.9	81.432 µg/L	8.2847	81.432 ppb	8.2847	10.17%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	2.5	1.0244 µg/L	6.02764	1.0244 ppb	6.02764	588.40%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	1.4	0.0019 µg/L	0.03536	0.0019 ppb	0.03536	>999.9%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	5.9	0.1890 µg/L	0.23907	0.1890 ppb	0.23907	126.48%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	177.8	26.922 µg/L	9.3225	26.922 ppb	9.3225	34.63%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	3.4	0.0423 µg/L	0.05037	0.0423 ppb	0.05037	119.01%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	8.0	1.9091 µg/L	2.70839	1.9091 ppb	2.70839	141.87%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-12.0	-0.7321 µg/L	0.65871	-0.7321 ppb	0.65871	89.97%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-2.6	-2.1371 µg/L	1.41821	-2.1371 ppb	1.41821	66.36%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-2.8	-0.3580 µg/L	0.62468	-0.3580 ppb	0.62468	174.48%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-3.5	-1.39 µg/L	1.063	-1.39 ppb	1.063	76.65%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	-81.7	-8.7522 µg/L	0.88086	-8.7522 ppb	0.88086	10.06%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	-169.7	-2.7534 µg/L	0.44809	-2.7534 ppb	0.44809	16.27%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	7.9	0.5489 µg/L	0.18365	0.5489 ppb	0.18365	33.46%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	20.8	0.0481 µg/L	0.13019	0.0481 ppb	0.13019	270.93%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-199.3	-0.1986 µg/L	0.00533	-0.1986 ppb	0.00533	2.68%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	8.8	1.1869 µg/L	1.37822	1.1869 ppb	1.37822	116.12%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-44.7	-2.7715 µg/L	4.85059	-2.7715 ppb	4.85059	175.02%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	100.0	0.5311 µg/L	0.37119	0.5311 ppb	0.37119	69.89%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-8.3	-0.0514 µg/L	0.09300	-0.0514 ppb	0.09300	180.86%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 49  
 Sample ID: CCV  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 7  
 Date Collected: 3/30/2010 19:02:24  
 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	154004.0	154004.0	104 %		19:02:58
1	Al 396.153Radial†	25964.7	24986.6	5125.3 µg/L	5125.3 ppb	19:02:58
1	Ca 317.933Radial†	89222.2	84947.2	5111.1 µg/L	5111.1 ppb	19:02:58
1	Fe 238.204 Radial†	78645.9	75352.2	5070.4 µg/L	5070.4 ppb	19:02:58
1	K 766.490 Radial†	14412.4	12521.8	5149.4 µg/L	5149.4 ppb	19:02:58
1	Mg 279.077 IEC†	13347.3	12643.4	5194.7 µg/L	5194.7 ppb	19:02:58
1	Na 589.592 Radial†	70330.6	66304.4	10064 µg/L	10064 ppb	19:02:58
1	Sr 421.552†	231741.9	222672.8	513.63 µg/L	513.63 ppb	19:02:56
1	Sc 361.383	1763677.6	1763677.6	100.49 %		19:03:10
1	Y 371.029	1054125.3	1054125.3	99.068 %		19:03:10
1	Ag 328.068†	130160.6	126078.8	507.48 µg/L	507.48 ppb	19:03:10
1	As 188.979†	1453.5	1464.1	518.20 µg/L	518.20 ppb	19:03:30
1	B 249.677†	34180.4	30783.4	500.13 µg/L	500.13 ppb	19:03:10
1	Ba 233.527†	116436.0	116030.4	505.63 µg/L	505.63 ppb	19:03:10
1	Be 313.107†	1697234.3	1689743.7	507.25 µg/L	507.25 ppb	19:03:10
1	Cd 226.502†	74227.4	73975.5	507.62 µg/L	507.62 ppb	19:03:10
1	Co 228.616†	37714.9	37703.4	510.20 µg/L	510.20 ppb	19:03:10
1	Cr 267.716†	60312.0	59839.3	504.06 µg/L	504.06 ppb	19:03:10
1	Cu 324.752†	122804.2	119416.4	504.78 µg/L	504.78 ppb	19:03:10
1	Mn 257.610†	381770.5	379733.3	507.34 µg/L	507.34 ppb	19:03:10
1	Mo 202.031†	16081.8	16038.1	510.62 µg/L	510.62 ppb	19:03:30
1	Ni 231.604†	40582.5	40462.5	508.93 µg/L	508.93 ppb	19:03:10
1	P 214.914†	10827.3	10769.5	2560.1 µg/L	2560.1 ppb	19:03:30
1	Pb 220.353†	8567.3	8428.6	517.70 µg/L	517.70 ppb	19:03:30
1	S 181.975 Axial†	1349.8	1255.5	1033.5 µg/L	1033.5 ppb	19:03:30
1	Sb 206.836†	3993.2	3895.7	512.06 µg/L	512.06 ppb	19:03:30
1	Se 196.026†	1316.1	1296.1	521 µg/L	521 ppb	19:03:30
1	SiO2†	52658.3	50648.4	5396.7 µg/L	5396.7 ppb	19:03:10
1	Si 251.611†	158083.3	156363.8	2520.7 µg/L	2520.7 ppb	19:03:10
1	Sn 189.927†	7449.7	7415.9	515.12 µg/L	515.12 ppb	19:03:30
1	Ti 334.940†	507688.9	504327.7	504.60 µg/L	504.60 ppb	19:03:10
1	Tl 190.801†	3728.3	3827.2	521.91 µg/L	521.91 ppb	19:03:30
1	U 409.014†	7452.4	7699.8	512.98 µg/L	512.98 ppb	19:03:10
1	V 292.402†	95444.2	94669.0	509.39 µg/L	509.39 ppb	19:03:10
1	Zn 213.857†	82729.3	81801.3	503.35 µg/L	503.35 ppb	19:03:10
2	Sc RADIAL	152206.2	152206.2	103 %		19:03:02
2	Al 396.153Radial†	25625.5	24951.5	5118.3 µg/L	5118.3 ppb	19:03:02
2	Ca 317.933Radial†	87826.6	84603.3	5090.4 µg/L	5090.4 ppb	19:03:02
2	Fe 238.204 Radial†	77648.1	75274.8	5065.1 µg/L	5065.1 ppb	19:03:02
2	K 766.490 Radial†	14302.6	12578.6	5172.7 µg/L	5172.7 ppb	19:03:02
2	Mg 279.077 IEC†	13235.3	12685.9	5212.0 µg/L	5212.0 ppb	19:03:02
2	Na 589.592 Radial†	69709.1	66498.1	10093 µg/L	10093 ppb	19:03:02
2	Sr 421.552†	227338.2	221023.3	509.83 µg/L	509.83 ppb	19:03:00
2	Sc 361.383	1776875.4	1776875.4	101.24 %		19:03:34
2	Y 371.029	1061631.9	1061631.9	99.773 %		19:03:34
2	Ag 328.068†	130998.6	125944.5	506.93 µg/L	506.93 ppb	19:03:34
2	As 188.979†	1459.7	1459.5	516.59 µg/L	516.59 ppb	19:03:54
2	B 249.677†	34518.0	30864.2	501.44 µg/L	501.44 ppb	19:03:34
2	Ba 233.527†	117636.8	116355.9	507.05 µg/L	507.05 ppb	19:03:34
2	Be 313.107†	1716424.6	1696153.7	509.17 µg/L	509.17 ppb	19:03:34
2	Cd 226.502†	74851.1	74042.9	508.09 µg/L	508.09 ppb	19:03:34
2	Co 228.616†	38147.6	37852.0	512.21 µg/L	512.21 ppb	19:03:34
2	Cr 267.716†	60842.3	59917.4	504.73 µg/L	504.73 ppb	19:03:34
2	Cu 324.752†	123942.6	119633.2	505.67 µg/L	505.67 ppb	19:03:34
2	Mn 257.610†	385004.0	380105.3	507.84 µg/L	507.84 ppb	19:03:34
2	Mo 202.031†	16082.4	15919.8	506.86 µg/L	506.86 ppb	19:03:54
2	Ni 231.604†	40885.5	40461.8	508.92 µg/L	508.92 ppb	19:03:34
2	P 214.914†	10845.5	10707.5	2545.3 µg/L	2545.3 ppb	19:03:54
2	Pb 220.353†	8540.7	8339.0	512.22 µg/L	512.22 ppb	19:03:54



QC value within limits for Co 228.616 Recovery = 102.24%							
Cr 267.716†	59946.4	504.97 µg/L	1.045	504.97 ppb	1.045	0.21%	
QC value within limits for Cr 267.716 Recovery = 100.99%							
Cu 324.752†	119571.7	505.42 µg/L	0.566	505.42 ppb	0.566	0.11%	
QC value within limits for Cu 324.752 Recovery = 101.08%							
Fe 238.204 Radial†	75270.8	5064.9 µg/L	5.62	5064.9 ppb	5.62	0.11%	
QC value within limits for Fe 238.204 Radial Recovery = 101.30%							
K 766.490 Radial†	12535.4	5155.0 µg/L	15.72	5155.0 ppb	15.72	0.31%	
QC value within limits for K 766.490 Radial Recovery = 103.10%							
Mg 279.077 IEC†	12632.7	5190.3 µg/L	24.30	5190.3 ppb	24.30	0.47%	
QC value within limits for Mg 279.077 IEC Recovery = 103.81%							
Mn 257.610†	380142.1	507.89 µg/L	0.573	507.89 ppb	0.573	0.11%	
QC value within limits for Mn 257.610 Recovery = 101.58%							
Mo 202.031†	15992.8	509.18 µg/L	2.028	509.18 ppb	2.028	0.40%	
QC value within limits for Mo 202.031 Recovery = 101.84%							
Na 589.592 Radial†	66301.0	10063 µg/L	30.2	10063 ppb	30.2	0.30%	
QC value within limits for Na 589.592 Radial Recovery = 100.63%							
Ni 231.604†	40477.8	509.12 µg/L	0.341	509.12 ppb	0.341	0.07%	
QC value within limits for Ni 231.604 Recovery = 101.82%							
P 214.914†	10745.6	2554.4 µg/L	7.95	2554.4 ppb	7.95	0.31%	
QC value within limits for P 214.914 Recovery = 102.18%							
Pb 220.353†	8374.2	514.37 µg/L	2.922	514.37 ppb	2.922	0.57%	
QC value within limits for Pb 220.353 Recovery = 102.87%							
S 181.975 Axial†	1253.2	1031.6 µg/L	1.93	1031.6 ppb	1.93	0.19%	
QC value within limits for S 181.975 Axial Recovery = 103.16%							
Sb 206.836†	3884.3	510.53 µg/L	1.433	510.53 ppb	1.433	0.28%	
QC value within limits for Sb 206.836 Recovery = 102.11%							
Se 196.026†	1284.7	516 µg/L	5.3	516 ppb	5.3	1.03%	
QC value within limits for Se 196.026 Recovery = 103.29%							
SiO2†	50599.4	5391.5 µg/L	9.37	5391.5 ppb	9.37	0.17%	
QC value within limits for SiO2 Recovery = 100.82%							
Si 251.611†	156716.1	2526.5 µg/L	5.48	2526.5 ppb	5.48	0.22%	
QC value within limits for Si 251.611 Recovery = 101.06%							
Sn 189.927†	7384.0	512.91 µg/L	1.966	512.91 ppb	1.966	0.38%	
QC value within limits for Sn 189.927 Recovery = 102.58%							
Sr 421.552†	220885.3	509.51 µg/L	4.291	509.51 ppb	4.291	0.84%	
QC value within limits for Sr 421.552 Recovery = 101.90%							
Ti 334.940†	504996.2	505.27 µg/L	0.593	505.27 ppb	0.593	0.12%	
QC value within limits for Ti 334.940 Recovery = 101.05%							
Tl 190.801†	3806.5	519.14 µg/L	2.644	519.14 ppb	2.644	0.51%	
QC value within limits for Tl 190.801 Recovery = 103.83%							
U 409.014†	7571.3	504.94 µg/L	11.928	504.94 ppb	11.928	2.36%	
QC value within limits for U 409.014 Recovery = 100.99%							
V 292.402†	94696.0	509.52 µg/L	0.665	509.52 ppb	0.665	0.13%	
QC value within limits for V 292.402 Recovery = 101.90%							
Zn 213.857†	82200.3	505.82 µg/L	2.460	505.82 ppb	2.460	0.49%	
QC value within limits for Zn 213.857 Recovery = 101.16%							
All analyte(s) passed QC.							



Sequence No.: 50

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/30/2010 19:04:24

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	152976.9	152976.9	103 %		19:04:53
1	Al 396.153Radial†	-73.3	-8.0	-1.6446 µg/L	-1.6446 ppb	19:05:13
1	Ca 317.933Radial†	743.8	20.8	1.2536 µg/L	1.2536 ppb	19:05:13
1	Fe 238.204 Radial†	162.8	16.6	1.1166 µg/L	1.1166 ppb	19:05:13
1	K 766.490 Radial†	1635.0	267.1	109.94 µg/L	109.94 ppb	19:04:53
1	Mg 279.077 IEC†	167.0	-7.4	-3.0364 µg/L	-3.0364 ppb	19:05:13
1	Na 589.592 Radial†	1636.1	374.4	56.755 µg/L	56.755 ppb	19:04:53
1	Sr 421.552†	-225.0	4.2	0.0097 µg/L	0.0097 ppb	19:04:53
1	Sc 361.383	1770150.7	1770150.7	100.86 %		19:06:01
1	Y 371.029	1071299.4	1071299.4	100.68 %		19:06:01
1	Ag 328.068†	3396.2	-79.8	-0.3074 µg/L	-0.3074 ppb	19:06:03
1	As 188.979†	-11.7	6.1	2.1295 µg/L	2.1295 ppb	19:06:23
1	B 249.677†	3230.4	-27.5	-0.4476 µg/L	-0.4476 ppb	19:06:23
1	Ba 233.527†	-158.9	4.6	0.0203 µg/L	0.0203 ppb	19:06:23
1	Be 313.107†	-811.3	-18.8	-0.0055 µg/L	-0.0055 ppb	19:06:03
1	Cd 226.502†	-80.3	30.4	0.2086 µg/L	0.2086 ppb	19:06:23
1	Co 228.616†	-180.0	-6.0	-0.0812 µg/L	-0.0812 ppb	19:06:23
1	Cr 267.716†	176.5	-3.6	-0.0304 µg/L	-0.0304 ppb	19:06:23
1	Cu 324.752†	2909.0	95.3	0.4019 µg/L	0.4019 ppb	19:06:03
1	Mn 257.610†	181.7	4.6	0.0062 µg/L	0.0062 ppb	19:06:23
1	Mo 202.031†	-35.3	-0.2	-0.0064 µg/L	-0.0064 ppb	19:06:23
1	Ni 231.604†	-59.2	19.2	0.2421 µg/L	0.2421 ppb	19:06:23
1	P 214.914†	3.9	-1.2	-0.2898 µg/L	-0.2898 ppb	19:06:23
1	Pb 220.353†	64.4	-33.2	-2.0307 µg/L	-2.0307 ppb	19:06:23
1	S 181.975 Axial†	93.2	4.7	3.8476 µg/L	3.8476 ppb	19:06:23
1	Sb 206.836†	82.6	3.8	0.5029 µg/L	0.5029 ppb	19:06:23
1	Se 196.026†	15.5	1.8	0.722 µg/L	0.722 ppb	19:06:23
1	SiO2†	1768.1	-0.1	-0.0011 µg/L	-0.0011 ppb	19:06:23
1	Si 251.611†	767.2	-188.0	-3.0394 µg/L	-3.0394 ppb	19:06:03
1	Sn 189.927†	-9.9	-7.3	-0.5025 µg/L	-0.5025 ppb	19:06:23
1	Ti 334.940†	732.7	-159.1	-0.1593 µg/L	-0.1593 ppb	19:06:03
1	Tl 190.801†	-108.6	9.4	1.2652 µg/L	1.2652 ppb	19:06:23
1	U 409.014†	-277.3	8.8	0.5927 µg/L	0.5927 ppb	19:06:03
1	V 292.402†	456.5	142.7	0.7580 µg/L	0.7580 ppb	19:06:03
1	Zn 213.857†	560.3	31.0	0.1902 µg/L	0.1902 ppb	19:06:23
2	Sc RADIAL	154316.4	154316.4	104 %		19:05:15
2	Al 396.153Radial†	-39.2	25.3	5.2268 µg/L	5.2268 ppb	19:05:35
2	Ca 317.933Radial†	742.3	13.1	0.7893 µg/L	0.7893 ppb	19:05:35
2	Fe 238.204 Radial†	167.7	20.0	1.3436 µg/L	1.3436 ppb	19:05:35
2	K 766.490 Radial†	1646.7	264.6	108.92 µg/L	108.92 ppb	19:05:15
2	Mg 279.077 IEC†	166.6	-9.2	-3.7902 µg/L	-3.7902 ppb	19:05:35
2	Na 589.592 Radial†	1328.1	65.6	9.8647 µg/L	9.8647 ppb	19:05:15
2	Sr 421.552†	-136.1	91.3	0.2106 µg/L	0.2106 ppb	19:05:15
2	Sc 361.383	1773912.8	1773912.8	101.07 %		19:06:25
2	Y 371.029	1072888.8	1072888.8	100.83 %		19:06:25
2	Ag 328.068†	3900.2	411.7	1.6385 µg/L	1.6385 ppb	19:06:28
2	As 188.979†	-17.5	0.4	0.1424 µg/L	0.1424 ppb	19:06:48
2	B 249.677†	3248.5	-16.3	-0.2662 µg/L	-0.2662 ppb	19:06:48
2	Ba 233.527†	-179.0	-15.0	-0.0650 µg/L	-0.0650 ppb	19:06:48
2	Be 313.107†	-728.5	64.9	0.0192 µg/L	0.0192 ppb	19:06:28
2	Cd 226.502†	-95.1	16.0	0.1097 µg/L	0.1097 ppb	19:06:48
2	Co 228.616†	-171.9	2.4	0.0323 µg/L	0.0323 ppb	19:06:48
2	Cr 267.716†	171.4	-8.9	-0.0743 µg/L	-0.0743 ppb	19:06:48
2	Cu 324.752†	2770.0	-48.4	-0.2045 µg/L	-0.2045 ppb	19:06:28
2	Mn 257.610†	211.8	34.0	0.0456 µg/L	0.0456 ppb	19:06:48
2	Mo 202.031†	-41.9	-6.7	-0.2120 µg/L	-0.2120 ppb	19:06:48
2	Ni 231.604†	-50.2	28.2	0.3548 µg/L	0.3548 ppb	19:06:48
2	P 214.914†	12.9	7.8	1.8693 µg/L	1.8693 ppb	19:06:48
2	Pb 220.353†	79.1	-18.7	-1.1459 µg/L	-1.1459 ppb	19:06:48

2	S 181.975 Axial†	97.0	8.3	6.8009 µg/L	6.8009 ppb	19:06:48
2	Sb 206.836†	91.9	12.9	1.6892 µg/L	1.6892 ppb	19:06:48
2	Se 196.026†	9.6	-4.0	-1.61 µg/L	-1.61 ppb	19:06:48
2	SiO2†	1699.3	-71.8	-7.6906 µg/L	-7.6906 ppb	19:06:48
2	Si 251.611†	831.2	-126.3	-2.0452 µg/L	-2.0452 ppb	19:06:28
2	Sn 189.927†	7.4	9.9	0.6839 µg/L	0.6839 ppb	19:06:48
2	Ti 334.940†	875.2	-19.7	-0.0190 µg/L	-0.0190 ppb	19:06:28
2	Tl 190.801†	-123.5	-5.1	-0.6880 µg/L	-0.6880 ppb	19:06:48
2	U 409.014†	-303.5	-16.5	-1.0172 µg/L	-1.0172 ppb	19:06:28
2	V 292.402†	367.8	54.0	0.2835 µg/L	0.2835 ppb	19:06:28
2	Zn 213.857†	550.7	20.3	0.1237 µg/L	0.1237 ppb	19:06:48
3	Sc RADIAL	153203.8	153203.8	104 %		19:05:37
3	Al 396.153Radial†	-40.1	24.2	4.9835 µg/L	4.9835 ppb	19:05:57
3	Ca 317.933Radial†	747.3	23.1	1.3902 µg/L	1.3902 ppb	19:05:57
3	Fe 238.204 Radial†	154.9	8.8	0.5888 µg/L	0.5888 ppb	19:05:57
3	K 766.490 Radial†	1439.1	75.8	31.204 µg/L	31.204 ppb	19:05:37
3	Mg 279.077 IEC†	162.7	-11.8	-4.8227 µg/L	-4.8227 ppb	19:05:57
3	Na 589.592 Radial†	1502.1	242.7	36.833 µg/L	36.833 ppb	19:05:37
3	Sr 421.552†	-156.8	70.3	0.1623 µg/L	0.1623 ppb	19:05:37
3	Sc 361.383	1793596.2	1793596.2	102.19 %		19:06:50
3	Y 371.029	1083682.1	1083682.1	101.85 %		19:06:50
3	Ag 328.068†	3889.2	358.6	1.4425 µg/L	1.4425 ppb	19:06:52
3	As 188.979†	-19.3	-1.2	-0.4157 µg/L	-0.4157 ppb	19:07:12
3	B 249.677†	3303.6	2.3	0.0377 µg/L	0.0377 ppb	19:07:12
3	Ba 233.527†	-172.5	-6.7	-0.0290 µg/L	-0.0290 ppb	19:07:12
3	Be 313.107†	-759.4	42.5	0.0163 µg/L	0.0163 ppb	19:06:52
3	Cd 226.502†	-85.1	26.8	0.1838 µg/L	0.1838 ppb	19:07:12
3	Co 228.616†	-164.7	11.3	0.1529 µg/L	0.1529 ppb	19:07:12
3	Cr 267.716†	191.2	8.5	0.0625 µg/L	0.0625 ppb	19:07:12
3	Cu 324.752†	2946.1	93.9	0.4054 µg/L	0.4054 ppb	19:06:52
3	Mn 257.610†	188.3	8.7	0.0118 µg/L	0.0118 ppb	19:07:12
3	Mo 202.031†	-33.3	2.1	0.0676 µg/L	0.0676 ppb	19:07:12
3	Ni 231.604†	-59.1	20.0	0.2521 µg/L	0.2521 ppb	19:07:12
3	P 214.914†	16.7	11.4	2.7112 µg/L	2.7112 ppb	19:07:12
3	Pb 220.353†	77.7	-20.9	-1.2903 µg/L	-1.2903 ppb	19:07:12
3	S 181.975 Axial†	99.0	9.2	7.5066 µg/L	7.5066 ppb	19:07:12
3	Sb 206.836†	77.2	-2.6	-0.3343 µg/L	-0.3343 ppb	19:07:12
3	Se 196.026†	6.6	-7.1	-2.85 µg/L	-2.85 ppb	19:07:12
3	SiO2†	1744.1	-46.5	-4.9856 µg/L	-4.9856 ppb	19:07:12
3	Si 251.611†	864.0	-103.2	-1.6763 µg/L	-1.6763 ppb	19:06:52
3	Sn 189.927†	7.3	9.6	0.6673 µg/L	0.6673 ppb	19:07:12
3	Ti 334.940†	660.4	-239.4	-0.2443 µg/L	-0.2443 ppb	19:06:52
3	Tl 190.801†	-121.9	-2.2	-0.3034 µg/L	-0.3034 ppb	19:07:12
3	U 409.014†	-96.1	189.7	11.895 µg/L	11.895 ppb	19:06:52
3	V 292.402†	359.1	41.5	0.2296 µg/L	0.2296 ppb	19:06:52
3	Zn 213.857†	529.7	-6.2	-0.0406 µg/L	-0.0406 ppb	19:07:12

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1779219.9	101.38 %	0.717			0.71%
Sc RADIAL	153499.0	104 %	0.5			0.47%
Y 371.029	1075956.8	101.12 %	0.633			0.63%
Ag 328.068†	230.2	0.9245 µg/L	1.07140	0.9245 ppb	1.07140	115.89%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	13.8	2.8552 µg/L	3.89890	2.8552 ppb	3.89890	136.55%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.8	0.6187 µg/L	1.33776	0.6187 ppb	1.33776	216.21%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-13.8	-0.2253 µg/L	0.24520	-0.2253 ppb	0.24520	108.82%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-5.7	-0.0246 µg/L	0.04284	-0.0246 ppb	0.04284	174.39%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	29.5	0.0100 µg/L	0.01349	0.0100 ppb	0.01349	134.78%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	19.0	1.1444 µg/L	0.31497	1.1444 ppb	0.31497	27.52%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	24.4	0.1674 µg/L	0.05148	0.1674 ppb	0.05148	30.76%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	2.6	0.0347 µg/L	0.11707	0.0347 ppb	0.11707	337.61%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-1.4	-0.0141 µg/L	0.06983	-0.0141 ppb	0.06983	495.71%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	46.9	0.2009 µg/L	0.35111	0.2009 ppb	0.35111	174.76%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	15.1	1.0163 µg/L	0.38727	1.0163 ppb	0.38727	38.11%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	202.5	83.353 µg/L	45.1647	83.353 ppb	45.1647	54.18%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-9.5	-3.8831 µg/L	0.89677	-3.8831 ppb	0.89677	23.09%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	15.8	0.0212 µg/L	0.02131	0.0212 ppb	0.02131	100.49%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-1.6	-0.0503 µg/L	0.14489	-0.0503 ppb	0.14489	288.06%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	227.6	34.484 µg/L	23.5333	34.484 ppb	23.5333	68.24%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	22.5	0.2830 µg/L	0.06241	0.2830 ppb	0.06241	22.05%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	6.0	1.4303 µg/L	1.54794	1.4303 ppb	1.54794	108.23%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-24.3	-1.4890 µg/L	0.47469	-1.4890 ppb	0.47469	31.88%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	7.4	6.0517 µg/L	1.94115	6.0517 ppb	1.94115	32.08%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	4.7	0.6192 µg/L	1.01675	0.6192 ppb	1.01675	164.19%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-3.1	-1.25 µg/L	1.812	-1.25 ppb	1.812	145.50%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-39.5	-4.2258 µg/L	3.90063	-4.2258 ppb	3.90063	92.31%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	-139.2	-2.2536 µg/L	0.70500	-2.2536 ppb	0.70500	31.28%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	4.1	0.2829 µg/L	0.68020	0.2829 ppb	0.68020	240.43%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	55.3	0.1275 µg/L	0.10486	0.1275 ppb	0.10486	82.25%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-139.4	-0.1409 µg/L	0.11378	-0.1409 ppb	0.11378	80.78%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	0.7	0.0913 µg/L	1.03467	0.0913 ppb	1.03467	>999.9%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	60.7	3.8234 µg/L	7.03618	3.8234 ppb	7.03618	184.03%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	79.4	0.4237 µg/L	0.29079	0.4237 ppb	0.29079	68.63%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	15.0	0.0911 µg/L	0.11880	0.0911 ppb	0.11880	130.40%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 58

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/30/2010 19:19:40

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	156286.5	156286.5	106 %		19:20:15
1	Al 396.153Radial†	26243.4	24886.3	5105.0 µg/L	5105.0 ppb	19:20:15
1	Ca 317.933Radial†	90127.3	84552.5	5087.3 µg/L	5087.3 ppb	19:20:15
1	Fe 238.204 Radial†	79817.9	75358.2	5070.8 µg/L	5070.8 ppb	19:20:15
1	K 766.490 Radial†	14699.5	12591.3	5178.0 µg/L	5178.0 ppb	19:20:15
1	Mg 279.077 IEC†	13655.8	12748.1	5237.5 µg/L	5237.5 ppb	19:20:15
1	Na 589.592 Radial†	71041.1	65990.4	10016 µg/L	10016 ppb	19:20:15
1	Sr 421.552†	230235.7	217999.3	502.85 µg/L	502.85 ppb	19:20:13
1	Sc 361.383	1767254.1	1767254.1	100.69 %		19:20:28
1	Y 371.029	1056127.6	1056127.6	99.256 %		19:20:28
1	Ag 328.068†	129150.0	124813.0	502.35 µg/L	502.35 ppb	19:20:28
1	As 188.979†	1441.8	1449.5	513.04 µg/L	513.04 ppb	19:20:48
1	B 249.677†	34042.4	30577.5	496.80 µg/L	496.80 ppb	19:20:28
1	Ba 233.527†	115383.0	114750.1	500.05 µg/L	500.05 ppb	19:20:28
1	Be 313.107†	1680728.3	1669933.3	501.30 µg/L	501.30 ppb	19:20:28
1	Cd 226.502†	73556.4	73159.7	502.02 µg/L	502.02 ppb	19:20:28
1	Co 228.616†	37215.0	37131.0	502.45 µg/L	502.45 ppb	19:20:28
1	Cr 267.716†	59784.6	59194.1	498.63 µg/L	498.63 ppb	19:20:28
1	Cu 324.752†	121975.1	118345.7	500.24 µg/L	500.24 ppb	19:20:28
1	Mn 257.610†	378077.7	375297.1	501.41 µg/L	501.41 ppb	19:20:28
1	Mo 202.031†	15890.1	15815.4	503.53 µg/L	503.53 ppb	19:20:48
1	Ni 231.604†	40101.9	39903.5	501.90 µg/L	501.90 ppb	19:20:28
1	P 214.914†	10660.2	10581.7	2515.4 µg/L	2515.4 ppb	19:20:48
1	Pb 220.353†	8433.9	8278.8	508.52 µg/L	508.52 ppb	19:20:48
1	S 181.975 Axial†	1333.5	1236.6	1018.0 µg/L	1018.0 ppb	19:20:48
1	Sb 206.836†	3931.0	3825.9	502.86 µg/L	502.86 ppb	19:20:48
1	Se 196.026†	1281.8	1259.4	506 µg/L	506 ppb	19:20:48
1	SiO2†	52030.2	49918.6	5318.9 µg/L	5318.9 ppb	19:20:28
1	Si 251.611†	156714.4	154686.0	2493.7 µg/L	2493.7 ppb	19:20:28
1	Sn 189.927†	7341.0	7293.0	506.59 µg/L	506.59 ppb	19:20:48
1	Ti 334.940†	503822.4	499465.4	499.73 µg/L	499.73 ppb	19:20:28
1	Tl 190.801†	3661.3	3753.1	511.88 µg/L	511.88 ppb	19:20:48
1	U 409.014†	7143.4	7378.0	492.41 µg/L	492.41 ppb	19:20:28
1	V 292.402†	94407.8	93447.5	502.80 µg/L	502.80 ppb	19:20:28
1	Zn 213.857†	82223.3	81132.2	499.24 µg/L	499.24 ppb	19:20:28
2	Sc RADIAL	153506.9	153506.9	104 %		19:20:19
2	Al 396.153Radial†	26020.7	25121.3	5153.5 µg/L	5153.5 ppb	19:20:19
2	Ca 317.933Radial†	88691.0	84713.0	5097.0 µg/L	5097.0 ppb	19:20:19
2	Fe 238.204 Radial†	78351.0	75312.7	5067.7 µg/L	5067.7 ppb	19:20:19
2	K 766.490 Radial†	14350.1	12506.6	5143.1 µg/L	5143.1 ppb	19:20:19
2	Mg 279.077 IEC†	13338.2	12676.1	5207.9 µg/L	5207.9 ppb	19:20:19
2	Na 589.592 Radial†	70350.0	66541.7	10100 µg/L	10100 ppb	19:20:19
2	Sr 421.552†	231308.8	222976.1	514.33 µg/L	514.33 ppb	19:20:17
2	Sc 361.383	1772730.7	1772730.7	101.01 %		19:20:51
2	Y 371.029	1059640.4	1059640.4	99.586 %		19:20:51
2	Ag 328.068†	129147.5	124414.3	500.79 µg/L	500.79 ppb	19:20:51
2	As 188.979†	1444.7	1448.0	512.52 µg/L	512.52 ppb	19:21:11
2	B 249.677†	33956.3	30387.8	493.70 µg/L	493.70 ppb	19:20:51
2	Ba 233.527†	115790.4	114799.5	500.26 µg/L	500.26 ppb	19:20:51
2	Be 313.107†	1687069.9	1671055.2	501.64 µg/L	501.64 ppb	19:20:51
2	Cd 226.502†	73654.9	73031.4	501.14 µg/L	501.14 ppb	19:20:51
2	Co 228.616†	37362.3	37162.7	502.88 µg/L	502.88 ppb	19:20:51
2	Cr 267.716†	59948.8	59173.3	498.45 µg/L	498.45 ppb	19:20:51
2	Cu 324.752†	121936.3	117933.1	498.51 µg/L	498.51 ppb	19:20:51
2	Mn 257.610†	378797.3	374849.6	500.81 µg/L	500.81 ppb	19:20:51
2	Mo 202.031†	15884.2	15760.8	501.80 µg/L	501.80 ppb	19:21:11
2	Ni 231.604†	40279.7	39956.5	502.56 µg/L	502.56 ppb	19:20:51
2	P 214.914†	10674.6	10563.3	2511.0 µg/L	2511.0 ppb	19:21:11
2	Pb 220.353†	8434.4	8253.4	506.95 µg/L	506.95 ppb	19:21:11

2	S 181.975 Axial†	1322.4	1221.5	1005.5 µg/L	1005.5 ppb	19:21:11
2	Sb 206.836†	3954.2	3836.8	504.26 µg/L	504.26 ppb	19:21:11
2	Se 196.026†	1280.7	1254.3	504 µg/L	504 ppb	19:21:11
2	SiO2†	52360.5	50086.0	5336.9 µg/L	5336.9 ppb	19:20:51
2	Si 251.611†	157189.4	154675.4	2493.6 µg/L	2493.6 ppb	19:20:51
2	Sn 189.927†	7330.2	7259.8	504.29 µg/L	504.29 ppb	19:21:11
2	Ti 334.940†	504300.3	498392.8	498.66 µg/L	498.66 ppb	19:20:51
2	Tl 190.801†	3675.4	3755.9	512.25 µg/L	512.25 ppb	19:21:11
2	U 409.014†	7294.0	7505.1	500.46 µg/L	500.46 ppb	19:20:51
2	V 292.402†	94993.4	93737.6	504.33 µg/L	504.33 ppb	19:20:51
2	Zn 213.857†	82164.6	80821.8	497.32 µg/L	497.32 ppb	19:20:51
3	Sc RADIAL	152465.5	152465.5	103 %		19:20:23
3	Al 396.153Radial†	25729.0	25009.6	5130.5 µg/L	5130.5 ppb	19:20:23
3	Ca 317.933Radial†	87628.2	84265.9	5070.1 µg/L	5070.1 ppb	19:20:23
3	Fe 238.204 Radial†	77267.8	74777.8	5031.7 µg/L	5031.7 ppb	19:20:23
3	K 766.490 Radial†	14278.7	12531.8	5153.5 µg/L	5153.5 ppb	19:20:23
3	Mg 279.077 IEC†	13121.7	12554.0	5157.8 µg/L	5157.8 ppb	19:20:23
3	Na 589.592 Radial†	69381.5	66065.3	10027 µg/L	10027 ppb	19:20:23
3	Sr 421.552†	227253.5	220565.6	508.77 µg/L	508.77 ppb	19:20:21
3	Sc 361.383	1774865.9	1774865.9	101.13 %		19:21:14
3	Y 371.029	1060441.2	1060441.2	99.661 %		19:21:14
3	Ag 328.068†	129803.0	124908.7	502.77 µg/L	502.77 ppb	19:21:14
3	As 188.979†	1438.7	1440.4	509.84 µg/L	509.84 ppb	19:21:34
3	B 249.677†	34246.4	30634.2	497.71 µg/L	497.71 ppb	19:21:14
3	Ba 233.527†	116272.3	115138.0	501.74 µg/L	501.74 ppb	19:21:14
3	Be 313.107†	1696617.6	1678487.1	503.87 µg/L	503.87 ppb	19:21:14
3	Cd 226.502†	73905.6	73191.6	502.24 µg/L	502.24 ppb	19:21:14
3	Co 228.616†	37681.5	37433.8	506.55 µg/L	506.55 ppb	19:21:14
3	Cr 267.716†	60007.5	59159.9	498.34 µg/L	498.34 ppb	19:21:14
3	Cu 324.752†	122346.4	118193.3	499.61 µg/L	499.61 ppb	19:21:14
3	Mn 257.610†	380251.1	375836.0	502.13 µg/L	502.13 ppb	19:21:14
3	Mo 202.031†	15900.8	15758.2	501.71 µg/L	501.71 ppb	19:21:34
3	Ni 231.604†	40553.3	40179.1	505.36 µg/L	505.36 ppb	19:21:14
3	P 214.914†	10653.4	10529.6	2503.0 µg/L	2503.0 ppb	19:21:34
3	Pb 220.353†	8446.7	8255.6	507.08 µg/L	507.08 ppb	19:21:34
3	S 181.975 Axial†	1325.5	1223.1	1006.8 µg/L	1006.8 ppb	19:21:34
3	Sb 206.836†	3949.1	3827.0	502.98 µg/L	502.98 ppb	19:21:34
3	Se 196.026†	1305.4	1277.3	513 µg/L	513 ppb	19:21:34
3	SiO2†	52316.9	49980.4	5325.6 µg/L	5325.6 ppb	19:21:14
3	Si 251.611†	157752.2	155044.7	2499.6 µg/L	2499.6 ppb	19:21:14
3	Sn 189.927†	7349.9	7270.5	505.03 µg/L	505.03 ppb	19:21:34
3	Ti 334.940†	506527.5	499994.5	500.26 µg/L	500.26 ppb	19:21:14
3	Tl 190.801†	3664.5	3740.7	510.22 µg/L	510.22 ppb	19:21:34
3	U 409.014†	7372.8	7574.3	504.87 µg/L	504.87 ppb	19:21:14
3	V 292.402†	95285.5	93913.3	505.26 µg/L	505.26 ppb	19:21:14
3	Zn 213.857†	82819.3	81371.4	500.71 µg/L	500.71 ppb	19:21:14

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1771616.9	100.94 %	0.224			0.22%
Sc RADIAL	154086.3	104 %	1.3			1.28%
Y 371.029	1058736.4	99.501 %	0.2156			0.22%
Ag 328.068†	124712.0	501.97 µg/L	1.043	501.97 ppb	1.043	0.21%
QC value within limits for Ag 328.068 Recovery = 100.39%						
Al 396.153Radial†	25005.7	5129.7 µg/L	24.27	5129.7 ppb	24.27	0.47%
QC value within limits for Al 396.153Radial Recovery = 102.59%						
As 188.979†	1446.0	511.80 µg/L	1.718	511.80 ppb	1.718	0.34%
QC value within limits for As 188.979 Recovery = 102.36%						
B 249.677†	30533.2	496.07 µg/L	2.099	496.07 ppb	2.099	0.42%
QC value within limits for B 249.677 Recovery = 99.21%						
Ba 233.527†	114895.9	500.68 µg/L	0.920	500.68 ppb	0.920	0.18%
QC value within limits for Ba 233.527 Recovery = 100.14%						
Be 313.107†	1673158.5	502.27 µg/L	1.397	502.27 ppb	1.397	0.28%
QC value within limits for Be 313.107 Recovery = 100.45%						
Ca 317.933Radial†	84510.5	5084.8 µg/L	13.63	5084.8 ppb	13.63	0.27%
QC value within limits for Ca 317.933Radial Recovery = 101.70%						
Cd 226.502†	73127.6	501.80 µg/L	0.584	501.80 ppb	0.584	0.12%
QC value within limits for Cd 226.502 Recovery = 100.36%						
Co 228.616†	37242.5	503.96 µg/L	2.253	503.96 ppb	2.253	0.45%

QC value within limits for Co 228.616 Recovery = 100.79%							
Cr 267.716†	59175.7	498.48 µg/L	0.150	498.48 ppb	0.150	0.03%	
QC value within limits for Cr 267.716 Recovery = 99.70%							
Cu 324.752†	118157.4	499.45 µg/L	0.877	499.45 ppb	0.877	0.18%	
QC value within limits for Cu 324.752 Recovery = 99.89%							
Fe 238.204 Radial†	75149.6	5056.7 µg/L	21.72	5056.7 ppb	21.72	0.43%	
QC value within limits for Fe 238.204 Radial Recovery = 101.13%							
K 766.490 Radial†	12543.2	5158.2 µg/L	17.91	5158.2 ppb	17.91	0.35%	
QC value within limits for K 766.490 Radial Recovery = 103.16%							
Mg 279.077 IEC†	12659.4	5201.1 µg/L	40.25	5201.1 ppb	40.25	0.77%	
QC value within limits for Mg 279.077 IEC Recovery = 104.02%							
Mn 257.610†	375327.6	501.45 µg/L	0.661	501.45 ppb	0.661	0.13%	
QC value within limits for Mn 257.610 Recovery = 100.29%							
Mo 202.031†	15778.1	502.35 µg/L	1.028	502.35 ppb	1.028	0.20%	
QC value within limits for Mo 202.031 Recovery = 100.47%							
Na 589.592 Radial†	66199.1	10048 µg/L	45.4	10048 ppb	45.4	0.45%	
QC value within limits for Na 589.592 Radial Recovery = 100.48%							
Ni 231.604†	40013.0	503.27 µg/L	1.840	503.27 ppb	1.840	0.37%	
QC value within limits for Ni 231.604 Recovery = 100.65%							
P 214.914†	10558.2	2509.8 µg/L	6.28	2509.8 ppb	6.28	0.25%	
QC value within limits for P 214.914 Recovery = 100.39%							
Pb 220.353†	8262.6	507.52 µg/L	0.869	507.52 ppb	0.869	0.17%	
QC value within limits for Pb 220.353 Recovery = 101.50%							
S 181.975 Axial†	1227.1	1010.1 µg/L	6.84	1010.1 ppb	6.84	0.68%	
QC value within limits for S 181.975 Axial Recovery = 101.01%							
Sb 206.836†	3829.9	503.37 µg/L	0.778	503.37 ppb	0.778	0.15%	
QC value within limits for Sb 206.836 Recovery = 100.67%							
Se 196.026†	1263.7	508 µg/L	4.8	508 ppb	4.8	0.95%	
QC value within limits for Se 196.026 Recovery = 101.61%							
SiO2†	49995.0	5327.1 µg/L	9.09	5327.1 ppb	9.09	0.17%	
QC value within limits for SiO2 Recovery = 99.62%							
Si 251.611†	154802.1	2495.6 µg/L	3.41	2495.6 ppb	3.41	0.14%	
QC value within limits for Si 251.611 Recovery = 99.83%							
Sn 189.927†	7274.4	505.30 µg/L	1.174	505.30 ppb	1.174	0.23%	
QC value within limits for Sn 189.927 Recovery = 101.06%							
Sr 421.552†	220513.7	508.65 µg/L	5.741	508.65 ppb	5.741	1.13%	
QC value within limits for Sr 421.552 Recovery = 101.73%							
Ti 334.940†	499284.2	499.55 µg/L	0.818	499.55 ppb	0.818	0.16%	
QC value within limits for Ti 334.940 Recovery = 99.91%							
Tl 190.801†	3749.9	511.45 µg/L	1.082	511.45 ppb	1.082	0.21%	
QC value within limits for Tl 190.801 Recovery = 102.29%							
U 409.014†	7485.8	499.25 µg/L	6.316	499.25 ppb	6.316	1.27%	
QC value within limits for U 409.014 Recovery = 99.85%							
V 292.402†	93699.5	504.13 µg/L	1.244	504.13 ppb	1.244	0.25%	
QC value within limits for V 292.402 Recovery = 100.83%							
Zn 213.857†	81108.4	499.09 µg/L	1.702	499.09 ppb	1.702	0.34%	
QC value within limits for Zn 213.857 Recovery = 99.82%							
All analyte(s) passed QC.							

Sequence No.: 59

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/30/2010 19:21:42

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	153790.7	153790.7	104 %		19:22:13
1	Al 396.153Radial†	-24.2	39.6	8.1551 µg/L	8.1551 ppb	19:22:33
1	Ca 317.933Radial†	665.7	-58.0	-3.4918 µg/L	-3.4918 ppb	19:22:33
1	Fe 238.204 Radial†	156.4	9.6	0.6492 µg/L	0.6492 ppb	19:22:33
1	K 766.490 Radial†	1573.5	199.7	82.198 µg/L	82.198 ppb	19:22:13
1	Mg 279.077 IEC†	180.3	4.5	1.8471 µg/L	1.8471 ppb	19:22:33
1	Na 589.592 Radial†	1488.0	223.7	33.897 µg/L	33.897 ppb	19:22:13
1	Sr 421.552†	-118.0	108.2	0.2496 µg/L	0.2496 ppb	19:22:13
1	Sc 361.383	1787033.8	1787033.8	101.82 %		19:23:34
1	Y 371.029	1081646.6	1081646.6	101.65 %		19:23:34
1	Ag 328.068†	3606.6	95.0	0.3622 µg/L	0.3622 ppb	19:23:36
1	As 188.979†	-19.5	-1.5	-0.5219 µg/L	-0.5219 ppb	19:23:56
1	B 249.677†	3260.3	-28.3	-0.4617 µg/L	-0.4617 ppb	19:23:56
1	Ba 233.527†	-145.0	19.7	0.0859 µg/L	0.0859 ppb	19:23:56
1	Be 313.107†	-380.3	412.1	0.1199 µg/L	0.1199 ppb	19:23:36
1	Cd 226.502†	-87.2	24.3	0.1671 µg/L	0.1671 ppb	19:23:56
1	Co 228.616†	-173.9	1.6	0.0220 µg/L	0.0220 ppb	19:23:56
1	Cr 267.716†	170.0	-11.6	-0.0879 µg/L	-0.0879 ppb	19:23:56
1	Cu 324.752†	2863.4	23.2	0.0877 µg/L	0.0877 ppb	19:23:36
1	Mn 257.610†	155.6	-22.8	-0.0305 µg/L	-0.0305 ppb	19:23:56
1	Mo 202.031†	-25.7	9.5	0.3034 µg/L	0.3034 ppb	19:23:56
1	Ni 231.604†	-74.3	4.9	0.0620 µg/L	0.0620 ppb	19:23:56
1	P 214.914†	1.0	-4.0	-0.9495 µg/L	-0.9495 ppb	19:23:56
1	Pb 220.353†	88.9	-9.6	-0.5776 µg/L	-0.5776 ppb	19:23:56
1	S 181.975 Axial†	85.6	-3.7	-2.9973 µg/L	-2.9973 ppb	19:23:56
1	Sb 206.836†	92.4	12.7	1.6738 µg/L	1.6738 ppb	19:23:56
1	Se 196.026†	-2.9	-16.4	-6.57 µg/L	-6.57 ppb	19:23:56
1	SiO2†	1759.1	-25.6	-2.7555 µg/L	-2.7555 ppb	19:23:56
1	Si 251.611†	913.8	-51.2	-0.8393 µg/L	-0.8393 ppb	19:23:36
1	Sn 189.927†	10.7	13.1	0.9064 µg/L	0.9064 ppb	19:23:56
1	Ti 334.940†	1016.1	112.4	0.1175 µg/L	0.1175 ppb	19:23:36
1	Tl 190.801†	-123.0	-3.7	-0.4965 µg/L	-0.4965 ppb	19:23:56
1	U 409.014†	-492.6	-200.0	-12.529 µg/L	-12.529 ppb	19:23:36
1	V 292.402†	316.1	0.6	-0.0025 µg/L	-0.0025 ppb	19:23:36
1	Zn 213.857†	565.3	30.7	0.1899 µg/L	0.1899 ppb	19:23:56
2	Sc RADIAL	151051.7	151051.7	102 %		19:22:35
2	Al 396.153Radial†	-64.7	-0.4	-0.1067 µg/L	-0.1067 ppb	19:22:55
2	Ca 317.933Radial†	659.2	-52.8	-3.1777 µg/L	-3.1777 ppb	19:22:55
2	Fe 238.204 Radial†	182.7	38.1	2.5670 µg/L	2.5670 ppb	19:22:55
2	K 766.490 Radial†	1698.8	349.7	143.92 µg/L	143.92 ppb	19:22:35
2	Mg 279.077 IEC†	179.6	7.0	2.8839 µg/L	2.8839 ppb	19:22:55
2	Na 589.592 Radial†	1481.0	242.7	36.732 µg/L	36.732 ppb	19:22:35
2	Sr 421.552†	-190.5	35.2	0.0813 µg/L	0.0813 ppb	19:22:35
2	Sc 361.383	1778422.1	1778422.1	101.33 %		19:23:58
2	Y 371.029	1076452.3	1076452.3	101.17 %		19:23:58
2	Ag 328.068†	3662.9	167.8	0.6748 µg/L	0.6748 ppb	19:24:00
2	As 188.979†	-14.0	3.9	1.3572 µg/L	1.3572 ppb	19:24:20
2	B 249.677†	3284.9	11.5	0.1861 µg/L	0.1861 ppb	19:24:20
2	Ba 233.527†	-159.5	4.7	0.0204 µg/L	0.0204 ppb	19:24:20
2	Be 313.107†	-846.3	-49.6	-0.0121 µg/L	-0.0121 ppb	19:24:00
2	Cd 226.502†	-107.7	3.7	0.0254 µg/L	0.0254 ppb	19:24:20
2	Co 228.616†	-158.7	15.8	0.2141 µg/L	0.2141 ppb	19:24:20
2	Cr 267.716†	182.0	1.1	0.0017 µg/L	0.0017 ppb	19:24:20
2	Cu 324.752†	2877.2	50.5	0.2212 µg/L	0.2212 ppb	19:24:00
2	Mn 257.610†	195.5	17.3	0.0231 µg/L	0.0231 ppb	19:24:20
2	Mo 202.031†	-23.8	11.2	0.3574 µg/L	0.3574 ppb	19:24:20
2	Ni 231.604†	-64.9	13.8	0.1737 µg/L	0.1737 ppb	19:24:20
2	P 214.914†	19.2	14.0	3.3292 µg/L	3.3292 ppb	19:24:20
2	Pb 220.353†	89.8	-8.4	-0.5195 µg/L	-0.5195 ppb	19:24:20

2	S 181.975 Axial†	90.6	1.7	1.3877 µg/L	1.3877 ppb	19:24:20
2	Sb 206.836†	69.4	-9.6	-1.2523 µg/L	-1.2523 ppb	19:24:20
2	Se 196.026†	21.5	7.6	3.06 µg/L	3.06 ppb	19:24:20
2	SiO2†	1730.8	-45.0	-4.8360 µg/L	-4.8360 ppb	19:24:20
2	Si 251.611†	933.9	-27.0	-0.4459 µg/L	-0.4459 ppb	19:24:00
2	Sn 189.927†	5.3	7.8	0.5369 µg/L	0.5369 ppb	19:24:20
2	Ti 334.940†	809.3	-86.9	-0.0912 µg/L	-0.0912 ppb	19:24:00
2	Tl 190.801†	-105.2	13.2	1.7751 µg/L	1.7751 ppb	19:24:20
2	U 409.014†	-136.3	149.3	9.3313 µg/L	9.3313 ppb	19:24:00
2	V 292.402†	255.2	-58.0	-0.2979 µg/L	-0.2979 ppb	19:24:00
2	Zn 213.857†	589.9	57.6	0.3556 µg/L	0.3556 ppb	19:24:20
3	Sc RADIAL	151949.3	151949.3	103 %		19:22:57
3	Al 396.153Radial†	-41.9	22.1	4.5594 µg/L	4.5594 ppb	19:23:17
3	Ca 317.933Radial†	655.8	-60.0	-3.6104 µg/L	-3.6104 ppb	19:23:17
3	Fe 238.204 Radial†	146.0	1.4	0.0926 µg/L	0.0926 ppb	19:23:17
3	K 766.490 Radial†	1689.3	330.7	136.11 µg/L	136.11 ppb	19:22:57
3	Mg 279.077 IEC†	174.2	0.7	0.2976 µg/L	0.2976 ppb	19:23:17
3	Na 589.592 Radial†	1427.0	181.7	27.472 µg/L	27.472 ppb	19:22:57
3	Sr 421.552†	-212.6	14.8	0.0342 µg/L	0.0342 ppb	19:22:57
3	Sc 361.383	1785827.5	1785827.5	101.75 %		19:24:23
3	Y 371.029	1080583.1	1080583.1	101.55 %		19:24:23
3	Ag 328.068†	3512.6	5.0	0.0150 µg/L	0.0150 ppb	19:24:25
3	As 188.979†	-15.8	2.1	0.7425 µg/L	0.7425 ppb	19:24:45
3	B 249.677†	3211.8	-73.8	-1.2042 µg/L	-1.2042 ppb	19:24:45
3	Ba 233.527†	-146.6	18.1	0.0791 µg/L	0.0791 ppb	19:24:45
3	Be 313.107†	-678.5	118.8	0.0332 µg/L	0.0332 ppb	19:24:25
3	Cd 226.502†	-125.8	-13.6	-0.0935 µg/L	-0.0935 ppb	19:24:45
3	Co 228.616†	-168.9	6.4	0.0872 µg/L	0.0872 ppb	19:24:45
3	Cr 267.716†	167.7	-13.7	-0.1091 µg/L	-0.1091 ppb	19:24:45
3	Cu 324.752†	2763.7	-72.8	-0.3134 µg/L	-0.3134 ppb	19:24:25
3	Mn 257.610†	214.0	34.7	0.0464 µg/L	0.0464 ppb	19:24:45
3	Mo 202.031†	-35.4	-0.0	-0.0014 µg/L	-0.0014 ppb	19:24:45
3	Ni 231.604†	-94.0	-14.5	-0.1827 µg/L	-0.1827 ppb	19:24:45
3	P 214.914†	10.4	5.2	1.2474 µg/L	1.2474 ppb	19:24:45
3	Pb 220.353†	78.2	-20.1	-1.2272 µg/L	-1.2272 ppb	19:24:45
3	S 181.975 Axial†	95.1	5.7	4.6840 µg/L	4.6840 ppb	19:24:45
3	Sb 206.836†	82.6	3.1	0.4098 µg/L	0.4098 ppb	19:24:45
3	Se 196.026†	9.2	-4.5	-1.82 µg/L	-1.82 ppb	19:24:45
3	SiO2†	1730.7	-52.2	-5.5870 µg/L	-5.5870 ppb	19:24:45
3	Si 251.611†	858.6	-104.8	-1.6952 µg/L	-1.6952 ppb	19:24:25
3	Sn 189.927†	-4.9	-2.3	-0.1604 µg/L	-0.1604 ppb	19:24:45
3	Ti 334.940†	934.6	32.9	0.0362 µg/L	0.0362 ppb	19:24:25
3	Tl 190.801†	-107.4	11.6	1.5567 µg/L	1.5567 ppb	19:24:45
3	U 409.014†	-418.9	-127.9	-7.9894 µg/L	-7.9894 ppb	19:24:25
3	V 292.402†	392.7	76.1	0.3983 µg/L	0.3983 ppb	19:24:25
3	Zn 213.857†	557.0	22.9	0.1434 µg/L	0.1434 ppb	19:24:45

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Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1783761.1	101.63 %	0.266			0.26%
Sc RADIAL	152263.9	103 %	0.9			0.92%
Y 371.029	1079560.7	101.46 %	0.258			0.25%
Ag 328.068†	89.3	0.3507 µg/L	0.33002	0.3507 ppb	0.33002	94.11%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	20.4	4.2026 µg/L	4.14243	4.2026 ppb	4.14243	98.57%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.5	0.5259 µg/L	0.95810	0.5259 ppb	0.95810	182.17%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-30.2	-0.4933 µg/L	0.69566	-0.4933 ppb	0.69566	141.02%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	14.2	0.0618 µg/L	0.03601	0.0618 ppb	0.03601	58.26%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	160.4	0.0470 µg/L	0.06704	0.0470 ppb	0.06704	142.62%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-57.0	-3.4266 µg/L	0.22360	-3.4266 ppb	0.22360	6.53%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	4.8	0.0330 µg/L	0.13047	0.0330 ppb	0.13047	395.41%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	8.0	0.1077 µg/L	0.09768	0.1077 ppb	0.09768	90.65%



Cr	267.716†	-8.1	-0.0651 µg/L	0.05879	-0.0651 ppb	0.05879	90.29%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cu	324.752†	0.3	-0.0015 µg/L	0.27823	-0.0015 ppb	0.27823	>999.9%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	16.4	1.1029 µg/L	1.29810	1.1029 ppb	1.29810	117.69%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	293.4	120.74 µg/L	33.609	120.74 ppb	33.609	27.84%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	4.1	1.6762 µg/L	1.30158	1.6762 ppb	1.30158	77.65%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	9.8	0.0130 µg/L	0.03943	0.0130 ppb	0.03943	303.91%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	6.9	0.2198 µg/L	0.19348	0.2198 ppb	0.19348	88.02%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	216.1	32.700 µg/L	4.7446	32.700 ppb	4.7446	14.51%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	1.4	0.0176 µg/L	0.18229	0.0176 ppb	0.18229	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	5.1	1.2090 µg/L	2.13959	1.2090 ppb	2.13959	176.97%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-12.7	-0.7747 µg/L	0.39288	-0.7747 ppb	0.39288	50.71%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	1.2	1.0248 µg/L	3.85350	1.0248 ppb	3.85350	376.02%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	2.1	0.2771 µg/L	1.46753	0.2771 ppb	1.46753	529.59%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-4.4	-1.78 µg/L	4.815	-1.78 ppb	4.815	271.26%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		-40.9	-4.3928 µg/L	1.46685	-4.3928 ppb	1.46685	33.39%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	-61.0	-0.9935 µg/L	0.63878	-0.9935 ppb	0.63878	64.30%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	6.2	0.4276 µg/L	0.54176	0.4276 ppb	0.54176	126.69%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	52.7	0.1217 µg/L	0.11326	0.1217 ppb	0.11326	93.08%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	19.5	0.0208 µg/L	0.10521	0.0208 ppb	0.10521	505.16%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	7.0	0.9451 µg/L	1.25324	0.9451 ppb	1.25324	132.61%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-59.6	-3.7291 µg/L	11.53618	-3.7291 ppb	11.53618	309.35%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	6.3	0.0327 µg/L	0.34943	0.0327 ppb	0.34943	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	37.0	0.2296 µg/L	0.11155	0.2296 ppb	0.11155	48.58%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 70  
 Sample ID: CCV  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 1  
 Date Collected: 3/30/2010 19:43:37  
 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	152566.0	152566.0	103 %		19:44:11
1	Al 396.153Radial†	25606.8	24874.8	5102.8 µg/L	5102.8 ppb	19:44:11
1	Ca 317.933Radial†	87089.3	83687.8	5035.3 µg/L	5035.3 ppb	19:44:11
1	Fe 238.204 Radial†	76897.0	74369.1	5004.2 µg/L	5004.2 ppb	19:44:11
1	K 766.490 Radial†	14096.9	12346.5	5077.2 µg/L	5077.2 ppb	19:44:11
1	Mg 279.077 IEC†	13148.8	12571.8	5165.1 µg/L	5165.1 ppb	19:44:11
1	Na 589.592 Radial†	69266.8	65909.9	10004 µg/L	10004 ppb	19:44:11
1	Sr 421.552†	228770.0	221889.9	511.83 µg/L	511.83 ppb	19:44:09
1	Sc 361.383	1761814.6	1761814.6	100.38 %		19:44:38
1	Y 371.029	1053404.8	1053404.8	99.000 %		19:44:38
1	Ag 328.068†	128558.3	124619.6	501.60 µg/L	501.60 ppb	19:44:38
1	As 188.979†	1411.7	1424.0	504.08 µg/L	504.08 ppb	19:44:58
1	B 249.677†	33506.8	30148.3	489.81 µg/L	489.81 ppb	19:44:38
1	Ba 233.527†	114918.9	114641.6	499.57 µg/L	499.57 ppb	19:44:38
1	Be 313.107†	1674925.7	1669306.3	501.12 µg/L	501.12 ppb	19:44:38
1	Cd 226.502†	72672.3	72504.4	497.53 µg/L	497.53 ppb	19:44:38
1	Co 228.616†	36934.5	36965.7	500.22 µg/L	500.22 ppb	19:44:38
1	Cr 267.716†	59419.2	59013.4	497.10 µg/L	497.10 ppb	19:44:38
1	Cu 324.752†	121410.8	118157.6	499.45 µg/L	499.45 ppb	19:44:38
1	Mn 257.610†	376245.0	374630.7	500.52 µg/L	500.52 ppb	19:44:38
1	Mo 202.031†	15680.1	15654.9	498.42 µg/L	498.42 ppb	19:44:58
1	Ni 231.604†	39814.8	39740.4	499.84 µg/L	499.84 ppb	19:44:38
1	P 214.914†	10503.2	10458.0	2485.9 µg/L	2485.9 ppb	19:44:58
1	Pb 220.353†	8303.5	8174.7	502.12 µg/L	502.12 ppb	19:44:58
1	S 181.975 Axial†	1302.0	1209.3	995.52 µg/L	995.52 ppb	19:44:58
1	Sb 206.836†	3900.6	3807.6	500.41 µg/L	500.41 ppb	19:44:58
1	Se 196.026†	1263.4	1245.0	501 µg/L	501 ppb	19:44:58
1	SiO2†	51906.7	49955.1	5323.1 µg/L	5323.1 ppb	19:44:38
1	Si 251.611†	155739.9	154195.7	2485.9 µg/L	2485.9 ppb	19:44:38
1	Sn 189.927†	7205.5	7180.5	498.80 µg/L	498.80 ppb	19:44:58
1	Ti 334.940†	502045.9	499240.4	499.51 µg/L	499.51 ppb	19:44:38
1	Tl 190.801†	3589.7	3693.1	503.82 µg/L	503.82 ppb	19:44:58
1	U 409.014†	7397.4	7652.8	509.62 µg/L	509.62 ppb	19:44:38
1	V 292.402†	94045.0	93375.5	502.38 µg/L	502.38 ppb	19:44:38
1	Zn 213.857†	81372.5	80536.7	495.57 µg/L	495.57 ppb	19:44:38
2	Sc RADIAL	150945.7	150945.7	102 %		19:44:15
2	Al 396.153Radial†	25340.4	24880.1	5103.4 µg/L	5103.4 ppb	19:44:15
2	Ca 317.933Radial†	86035.3	83561.3	5027.7 µg/L	5027.7 ppb	19:44:15
2	Fe 238.204 Radial†	76125.2	74413.0	5007.2 µg/L	5007.2 ppb	19:44:15
2	K 766.490 Radial†	14026.0	12423.6	5109.0 µg/L	5109.0 ppb	19:44:15
2	Mg 279.077 IEC†	12973.0	12536.4	5150.8 µg/L	5150.8 ppb	19:44:15
2	Na 589.592 Radial†	68752.2	66126.4	10037 µg/L	10037 ppb	19:44:15
2	Sr 421.552†	224288.2	219880.0	507.19 µg/L	507.19 ppb	19:44:13
2	Sc 361.383	1735634.7	1735634.7	98.892 %		19:45:01
2	Y 371.029	1039436.8	1039436.8	97.687 %		19:45:01
2	Ag 328.068†	126843.5	124817.4	502.37 µg/L	502.37 ppb	19:45:01
2	As 188.979†	1419.7	1453.3	514.36 µg/L	514.36 ppb	19:45:21
2	B 249.677†	33097.4	30237.8	491.28 µg/L	491.28 ppb	19:45:01
2	Ba 233.527†	113015.6	114443.8	498.72 µg/L	498.72 ppb	19:45:01
2	Be 313.107†	1643853.4	1663053.5	499.24 µg/L	499.24 ppb	19:45:01
2	Cd 226.502†	71236.7	72144.7	495.05 µg/L	495.05 ppb	19:45:01
2	Co 228.616†	36240.3	36818.7	498.23 µg/L	498.23 ppb	19:45:01
2	Cr 267.716†	58499.4	58976.2	496.79 µg/L	496.79 ppb	19:45:01
2	Cu 324.752†	119280.1	117827.4	498.05 µg/L	498.05 ppb	19:45:01
2	Mn 257.610†	369723.3	373689.4	499.26 µg/L	499.26 ppb	19:45:01
2	Mo 202.031†	15815.6	16027.5	510.28 µg/L	510.28 ppb	19:45:21
2	Ni 231.604†	39009.7	39524.6	497.13 µg/L	497.13 ppb	19:45:01
2	P 214.914†	10517.9	10630.8	2527.1 µg/L	2527.1 ppb	19:45:21
2	Pb 220.353†	8340.1	8336.6	512.07 µg/L	512.07 ppb	19:45:21

2	S 181.975 Axial†	1311.8	1238.8	1019.8 µg/L	1019.8 ppb	19:45:21
2	Sb 206.836†	3916.3	3882.1	510.35 µg/L	510.35 ppb	19:45:21
2	Se 196.026†	1266.7	1267.3	509 µg/L	509 ppb	19:45:21
2	SiO2†	50846.1	49662.6	5291.3 µg/L	5291.3 ppb	19:45:01
2	Si 251.611†	152986.3	153751.4	2478.5 µg/L	2478.5 ppb	19:45:01
2	Sn 189.927†	7252.2	7336.0	509.57 µg/L	509.57 ppb	19:45:21
2	Ti 334.940†	494064.0	498713.0	498.98 µg/L	498.98 ppb	19:45:01
2	Tl 190.801†	3648.8	3806.8	519.09 µg/L	519.09 ppb	19:45:21
2	U 409.014†	7183.4	7547.6	502.96 µg/L	502.96 ppb	19:45:01
2	V 292.402†	92468.1	93194.1	501.53 µg/L	501.53 ppb	19:45:01
2	Zn 213.857†	79957.4	80328.5	494.30 µg/L	494.30 ppb	19:45:01
3	Sc RADIAL	151489.6	151489.6	102 %		19:44:19
3	Al 396.153Radial†	25711.8	25153.5	5160.2 µg/L	5160.2 ppb	19:44:19
3	Ca 317.933Radial†	86682.1	83890.0	5047.5 µg/L	5047.5 ppb	19:44:19
3	Fe 238.204 Radial†	76565.6	74575.2	5018.1 µg/L	5018.1 ppb	19:44:19
3	K 766.490 Radial†	14158.1	12503.2	5141.7 µg/L	5141.7 ppb	19:44:19
3	Mg 279.077 IEC†	12873.6	12393.8	5092.1 µg/L	5092.1 ppb	19:44:19
3	Na 589.592 Radial†	68862.0	65991.8	10016 µg/L	10016 ppb	19:44:19
3	Sr 421.552†	226406.2	221158.3	510.14 µg/L	510.14 ppb	19:44:17
3	Sc 361.383	1773887.5	1773887.5	101.07 %		19:45:24
3	Y 371.029	1060251.5	1060251.5	99.644 %		19:45:24
3	Ag 328.068†	129452.8	124633.0	501.67 µg/L	501.67 ppb	19:45:24
3	As 188.979†	1431.2	1433.7	507.50 µg/L	507.50 ppb	19:45:44
3	B 249.677†	34092.9	30501.1	495.55 µg/L	495.55 ppb	19:45:24
3	Ba 233.527†	115983.7	114916.0	500.77 µg/L	500.77 ppb	19:45:24
3	Be 313.107†	1692932.3	1675766.1	503.06 µg/L	503.06 ppb	19:45:24
3	Cd 226.502†	73593.8	72923.5	500.40 µg/L	500.40 ppb	19:45:24
3	Co 228.616†	37396.7	37172.6	503.02 µg/L	503.02 ppb	19:45:24
3	Cr 267.716†	60047.7	59232.4	498.94 µg/L	498.94 ppb	19:45:24
3	Cu 324.752†	122228.1	118143.0	499.40 µg/L	499.40 ppb	19:45:24
3	Mn 257.610†	379880.6	375676.8	501.92 µg/L	501.92 ppb	19:45:24
3	Mo 202.031†	15825.9	15692.8	499.63 µg/L	499.63 ppb	19:45:44
3	Ni 231.604†	40369.0	40018.9	503.35 µg/L	503.35 ppb	19:45:24
3	P 214.914†	10636.2	10518.4	2500.3 µg/L	2500.3 ppb	19:45:44
3	Pb 220.353†	8362.2	8176.6	502.23 µg/L	502.23 ppb	19:45:44
3	S 181.975 Axial†	1322.1	1220.4	1004.6 µg/L	1004.6 ppb	19:45:44
3	Sb 206.836†	3918.4	3798.8	499.24 µg/L	499.24 ppb	19:45:44
3	Se 196.026†	1280.4	1253.2	504 µg/L	504 ppb	19:45:44
3	SiO2†	52263.9	49956.6	5323.1 µg/L	5323.1 ppb	19:45:24
3	Si 251.611†	157320.2	154703.3	2494.1 µg/L	2494.1 ppb	19:45:24
3	Sn 189.927†	7327.9	7252.8	503.81 µg/L	503.81 ppb	19:45:44
3	Ti 334.940†	505987.1	499736.1	500.01 µg/L	500.01 ppb	19:45:24
3	Tl 190.801†	3636.5	3715.0	506.77 µg/L	506.77 ppb	19:45:44
3	U 409.014†	7546.3	7750.0	515.79 µg/L	515.79 ppb	19:45:24
3	V 292.402†	94959.8	93643.0	503.82 µg/L	503.82 ppb	19:45:24
3	Zn 213.857†	82538.5	81138.7	499.28 µg/L	499.28 ppb	19:45:24

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1757112.3	100.12 %	1.114			1.11%
Sc RADIAL	151667.1	103 %	0.6			0.54%
Y 371.029	1051031.0	98.777 %	0.9970			1.01%
Ag 328.068†	124690.0	501.88 µg/L	0.423	501.88 ppb	0.423	0.08%
QC value within limits for Ag 328.068 Recovery = 100.38%						
Al 396.153Radial†	24969.5	5122.2 µg/L	32.97	5122.2 ppb	32.97	0.64%
QC value within limits for Al 396.153Radial Recovery = 102.44%						
As 188.979†	1437.0	508.65 µg/L	5.235	508.65 ppb	5.235	1.03%
QC value within limits for As 188.979 Recovery = 101.73%						
B 249.677†	30295.7	492.21 µg/L	2.983	492.21 ppb	2.983	0.61%
QC value within limits for B 249.677 Recovery = 98.44%						
Ba 233.527†	114667.1	499.69 µg/L	1.032	499.69 ppb	1.032	0.21%
QC value within limits for Ba 233.527 Recovery = 99.94%						
Be 313.107†	1669375.3	501.14 µg/L	1.910	501.14 ppb	1.910	0.38%
QC value within limits for Be 313.107 Recovery = 100.23%						
Ca 317.933Radial†	83713.0	5036.8 µg/L	9.97	5036.8 ppb	9.97	0.20%
QC value within limits for Ca 317.933Radial Recovery = 100.74%						
Cd 226.502†	72524.2	497.66 µg/L	2.677	497.66 ppb	2.677	0.54%
QC value within limits for Cd 226.502 Recovery = 99.53%						
Co 228.616†	36985.7	500.49 µg/L	2.405	500.49 ppb	2.405	0.48%

QC value within limits for Co 228.616 Recovery = 100.10%							
Cr 267.716†	59074.0	497.61 µg/L	1.163	497.61 ppb	1.163	0.23%	
QC value within limits for Cr 267.716 Recovery = 99.52%							
Cu 324.752†	118042.7	498.97 µg/L	0.792	498.97 ppb	0.792	0.16%	
QC value within limits for Cu 324.752 Recovery = 99.79%							
Fe 238.204 Radial†	74452.5	5009.8 µg/L	7.30	5009.8 ppb	7.30	0.15%	
QC value within limits for Fe 238.204 Radial Recovery = 100.20%							
K 766.490 Radial†	12424.4	5109.3 µg/L	32.25	5109.3 ppb	32.25	0.63%	
QC value within limits for K 766.490 Radial Recovery = 102.19%							
Mg 279.077 IEC†	12500.7	5136.0 µg/L	38.70	5136.0 ppb	38.70	0.75%	
QC value within limits for Mg 279.077 IEC Recovery = 102.72%							
Mn 257.610†	374665.6	500.57 µg/L	1.330	500.57 ppb	1.330	0.27%	
QC value within limits for Mn 257.610 Recovery = 100.11%							
Mo 202.031†	15791.7	502.78 µg/L	6.524	502.78 ppb	6.524	1.30%	
QC value within limits for Mo 202.031 Recovery = 100.56%							
Na 589.592 Radial†	66009.3	10019 µg/L	16.6	10019 ppb	16.6	0.17%	
QC value within limits for Na 589.592 Radial Recovery = 100.19%							
Ni 231.604†	39761.3	500.11 µg/L	3.116	500.11 ppb	3.116	0.62%	
QC value within limits for Ni 231.604 Recovery = 100.02%							
P 214.914†	10535.7	2504.4 µg/L	20.89	2504.4 ppb	20.89	0.83%	
QC value within limits for P 214.914 Recovery = 100.18%							
Pb 220.353†	8229.3	505.47 µg/L	5.710	505.47 ppb	5.710	1.13%	
QC value within limits for Pb 220.353 Recovery = 101.09%							
S 181.975 Axial†	1222.8	1006.6 µg/L	12.25	1006.6 ppb	12.25	1.22%	
QC value within limits for S 181.975 Axial Recovery = 100.66%							
Sb 206.836†	3829.5	503.33 µg/L	6.107	503.33 ppb	6.107	1.21%	
QC value within limits for Sb 206.836 Recovery = 100.67%							
Se 196.026†	1255.2	505 µg/L	4.5	505 ppb	4.5	0.89%	
QC value within limits for Se 196.026 Recovery = 100.93%							
SiO2†	49858.1	5312.5 µg/L	18.37	5312.5 ppb	18.37	0.35%	
QC value within limits for SiO2 Recovery = 99.35%							
Si 251.611†	154216.8	2486.2 µg/L	7.80	2486.2 ppb	7.80	0.31%	
QC value within limits for Si 251.611 Recovery = 99.45%							
Sn 189.927†	7256.4	504.06 µg/L	5.387	504.06 ppb	5.387	1.07%	
QC value within limits for Sn 189.927 Recovery = 100.81%							
Sr 421.552†	220976.1	509.72 µg/L	2.347	509.72 ppb	2.347	0.46%	
QC value within limits for Sr 421.552 Recovery = 101.94%							
Ti 334.940†	499229.8	499.50 µg/L	0.512	499.50 ppb	0.512	0.10%	
QC value within limits for Ti 334.940 Recovery = 99.90%							
Tl 190.801†	3738.3	509.89 µg/L	8.100	509.89 ppb	8.100	1.59%	
QC value within limits for Tl 190.801 Recovery = 101.98%							
U 409.014†	7650.2	509.46 µg/L	6.414	509.46 ppb	6.414	1.26%	
QC value within limits for U 409.014 Recovery = 101.89%							
V 292.402†	93404.2	502.58 µg/L	1.157	502.58 ppb	1.157	0.23%	
QC value within limits for V 292.402 Recovery = 100.52%							
Zn 213.857†	80668.0	496.38 µg/L	2.589	496.38 ppb	2.589	0.52%	
QC value within limits for Zn 213.857 Recovery = 99.28%							

All analyte(s) passed QC.

Sequence No.: 71

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/30/2010 19:45:52

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	152697.9	152697.9	103 %		19:46:23
1	Al 396.153Radial†	-22.5	41.0	8.4493 µg/L	8.4493 ppb	19:46:43
1	Ca 317.933Radial†	674.1	-45.4	-2.7299 µg/L	-2.7299 ppb	19:46:43
1	Fe 238.204 Radial†	153.6	8.0	0.5368 µg/L	0.5368 ppb	19:46:43
1	K 766.490 Radial†	1724.3	356.5	146.71 µg/L	146.71 ppb	19:46:23
1	Mg 279.077 IEC†	177.5	3.0	1.2396 µg/L	1.2396 ppb	19:46:43
1	Na 589.592 Radial†	1442.1	189.5	28.651 µg/L	28.651 ppb	19:46:23
1	Sr 421.552†	-300.8	-69.6	-0.1605 µg/L	-0.1605 ppb	19:46:23
1	Sc 361.383	1753607.2	1753607.2	99.916 %		19:47:44
1	Y 371.029	1062664.2	1062664.2	99.870 %		19:47:44
1	Ag 328.068†	3454.6	10.4	0.0332 µg/L	0.0332 ppb	19:47:47
1	As 188.979†	-6.6	11.1	3.8795 µg/L	3.8795 ppb	19:48:07
1	B 249.677†	3268.1	40.5	0.6600 µg/L	0.6600 ppb	19:48:07
1	Ba 233.527†	-146.4	15.6	0.0680 µg/L	0.0680 ppb	19:48:07
1	Be 313.107†	-650.8	134.3	0.0380 µg/L	0.0380 ppb	19:47:47
1	Cd 226.502†	-89.4	20.5	0.1408 µg/L	0.1408 ppb	19:48:07
1	Co 228.616†	-151.4	20.9	0.2821 µg/L	0.2821 ppb	19:48:07
1	Cr 267.716†	171.7	-6.7	-0.0505 µg/L	-0.0505 ppb	19:48:07
1	Cu 324.752†	2903.9	117.4	0.4888 µg/L	0.4888 ppb	19:47:47
1	Mn 257.610†	203.7	28.3	0.0378 µg/L	0.0378 ppb	19:48:07
1	Mo 202.031†	-28.4	6.3	0.2007 µg/L	0.2007 ppb	19:48:07
1	Ni 231.604†	-88.0	-10.2	-0.1286 µg/L	-0.1286 ppb	19:48:07
1	P 214.914†	16.5	11.5	2.7270 µg/L	2.7270 ppb	19:48:07
1	Pb 220.353†	85.2	-11.7	-0.7084 µg/L	-0.7084 ppb	19:48:07
1	Sb 181.975 Axial†	90.3	2.7	2.1839 µg/L	2.1839 ppb	19:48:07
1	Sb 206.836†	75.6	-2.4	-0.3124 µg/L	-0.3124 ppb	19:48:07
1	Se 196.026†	4.3	-9.3	-3.71 µg/L	-3.71 ppb	19:48:07
1	SiO2†	1732.3	-19.3	-2.0707 µg/L	-2.0707 ppb	19:48:07
1	Si 251.611†	820.3	-127.7	-2.0677 µg/L	-2.0677 ppb	19:47:47
1	Sn 189.927†	-7.1	-4.6	-0.3192 µg/L	-0.3192 ppb	19:48:07
1	Ti 334.940†	726.5	-158.5	-0.1558 µg/L	-0.1558 ppb	19:47:47
1	Tl 190.801†	-110.3	6.7	0.9024 µg/L	0.9024 ppb	19:48:07
1	U 409.014†	-405.9	-122.5	-7.6645 µg/L	-7.6645 ppb	19:47:47
1	V 292.402†	329.5	20.0	0.1029 µg/L	0.1029 ppb	19:47:47
1	Zn 213.857†	562.8	38.7	0.2403 µg/L	0.2403 ppb	19:48:07
2	Sc RADIAL	151307.7	151307.7	102 %		19:46:45
2	Al 396.153Radial†	-38.2	25.5	5.2389 µg/L	5.2389 ppb	19:47:05
2	Ca 317.933Radial†	690.3	-23.5	-1.4153 µg/L	-1.4153 ppb	19:47:05
2	Fe 238.204 Radial†	172.0	27.3	1.8389 µg/L	1.8389 ppb	19:47:05
2	K 766.490 Radial†	1548.3	199.9	82.252 µg/L	82.252 ppb	19:46:45
2	Mg 279.077 IEC†	208.1	34.5	14.177 µg/L	14.177 ppb	19:47:05
2	Na 589.592 Radial†	1453.5	213.5	32.346 µg/L	32.346 ppb	19:46:45
2	Sr 421.552†	-254.6	-27.1	-0.0624 µg/L	-0.0624 ppb	19:46:45
2	Sc 361.383	1759391.1	1759391.1	100.25 %		19:48:09
2	Y 371.029	1065998.1	1065998.1	100.18 %		19:48:09
2	Ag 328.068†	3348.6	-106.7	-0.4219 µg/L	-0.4219 ppb	19:48:11
2	As 188.979†	-13.2	4.6	1.5887 µg/L	1.5887 ppb	19:48:31
2	B 249.677†	3221.5	-16.7	-0.2733 µg/L	-0.2733 ppb	19:48:31
2	Ba 233.527†	-168.8	-6.3	-0.0273 µg/L	-0.0273 ppb	19:48:31
2	Be 313.107†	-640.0	147.2	0.0454 µg/L	0.0454 ppb	19:48:11
2	Cd 226.502†	-98.6	11.7	0.0799 µg/L	0.0799 ppb	19:48:31
2	Co 228.616†	-167.7	5.2	0.0697 µg/L	0.0697 ppb	19:48:31
2	Cr 267.716†	154.6	-24.3	-0.2086 µg/L	-0.2086 ppb	19:48:31
2	Cu 324.752†	2944.9	148.7	0.6306 µg/L	0.6306 ppb	19:48:11
2	Mn 257.610†	200.6	24.5	0.0322 µg/L	0.0322 ppb	19:48:31
2	Mo 202.031†	-17.5	17.3	0.5509 µg/L	0.5509 ppb	19:48:31
2	Ni 231.604†	-82.1	-4.0	-0.0498 µg/L	-0.0498 ppb	19:48:31
2	P 214.914†	10.1	5.1	1.1941 µg/L	1.1941 ppb	19:48:31
2	Pb 220.353†	72.7	-24.4	-1.4953 µg/L	-1.4953 ppb	19:48:31

2	S 181.975 Axial†	91.8	3.8	3.1599 µg/L	3.1599 ppb	19:48:31
2	Sb 206.836†	82.3	4.0	0.5386 µg/L	0.5386 ppb	19:48:31
2	Se 196.026†	6.6	-7.0	-2.80 µg/L	-2.80 ppb	19:48:31
2	SiO2†	1739.4	-18.0	-1.9350 µg/L	-1.9350 ppb	19:48:31
2	Si 251.611†	838.0	-112.7	-1.8291 µg/L	-1.8291 ppb	19:48:11
2	Sn 189.927†	-7.2	-4.6	-0.3186 µg/L	-0.3186 ppb	19:48:31
2	Ti 334.940†	685.9	-201.4	-0.2046 µg/L	-0.2046 ppb	19:48:11
2	Tl 190.801†	-109.7	7.6	1.0203 µg/L	1.0203 ppb	19:48:31
2	U 409.014†	-218.0	66.3	4.1377 µg/L	4.1377 ppb	19:48:11
2	V 292.402†	265.6	-44.8	-0.2305 µg/L	-0.2305 ppb	19:48:11
2	Zn 213.857†	575.4	49.5	0.3065 µg/L	0.3065 ppb	19:48:31
3	Sc RADIAL	151056.1	151056.1	102 %		19:47:07
3	Al 396.153Radial†	-63.7	0.5	0.0879 µg/L	0.0879 ppb	19:47:27
3	Ca 317.933Radial†	683.6	-29.0	-1.7456 µg/L	-1.7456 ppb	19:47:27
3	Fe 238.204 Radial†	179.1	34.6	2.3290 µg/L	2.3290 ppb	19:47:27
3	K 766.490 Radial†	1628.9	281.3	115.79 µg/L	115.79 ppb	19:47:07
3	Mg 279.077 IEC†	153.2	-18.8	-7.7192 µg/L	-7.7192 ppb	19:47:27
3	Na 589.592 Radial†	1482.1	243.9	36.925 µg/L	36.925 ppb	19:47:07
3	Sr 421.552†	-226.1	0.4	0.0009 µg/L	0.0009 ppb	19:47:07
3	Sc 361.383	1791231.6	1791231.6	102.06 %		19:48:33
3	Y 371.029	1084775.0	1084775.0	101.95 %		19:48:33
3	Ag 328.068†	3471.8	-45.3	-0.1685 µg/L	-0.1685 ppb	19:48:35
3	As 188.979†	-16.7	1.3	0.4666 µg/L	0.4666 ppb	19:48:55
3	B 249.677†	3224.2	-71.2	-1.1607 µg/L	-1.1607 ppb	19:48:55
3	Ba 233.527†	-168.2	-2.6	-0.0112 µg/L	-0.0112 ppb	19:48:55
3	Be 313.107†	-721.0	79.1	0.0259 µg/L	0.0259 ppb	19:48:35
3	Cd 226.502†	-83.2	28.5	0.1958 µg/L	0.1958 ppb	19:48:55
3	Co 228.616†	-174.9	1.0	0.0138 µg/L	0.0138 ppb	19:48:55
3	Cr 267.716†	180.6	-1.7	-0.0194 µg/L	-0.0194 ppb	19:48:55
3	Cu 324.752†	2861.8	15.1	0.0696 µg/L	0.0696 ppb	19:48:35
3	Mn 257.610†	233.2	52.9	0.0710 µg/L	0.0710 ppb	19:48:55
3	Mo 202.031†	-24.4	10.8	0.3441 µg/L	0.3441 ppb	19:48:55
3	Ni 231.604†	-45.5	33.3	0.4192 µg/L	0.4192 ppb	19:48:55
3	P 214.914†	-2.2	-7.2	-1.7214 µg/L	-1.7214 ppb	19:48:55
3	Pb 220.353†	86.2	-12.5	-0.7707 µg/L	-0.7707 ppb	19:48:55
3	S 181.975 Axial†	85.7	-3.7	-3.0674 µg/L	-3.0674 ppb	19:48:55
3	Sb 206.836†	89.9	10.0	1.3116 µg/L	1.3116 ppb	19:48:55
3	Se 196.026†	19.0	5.0	2.02 µg/L	2.02 ppb	19:48:55
3	SiO2†	1719.8	-68.0	-7.2773 µg/L	-7.2773 ppb	19:48:55
3	Si 251.611†	833.1	-132.4	-2.1429 µg/L	-2.1429 ppb	19:48:35
3	Sn 189.927†	-11.8	-9.0	-0.6249 µg/L	-0.6249 ppb	19:48:55
3	Ti 334.940†	1017.8	111.7	0.1095 µg/L	0.1095 ppb	19:48:35
3	Tl 190.801†	-106.9	12.4	1.6637 µg/L	1.6637 ppb	19:48:55
3	U 409.014†	-171.3	115.9	7.2747 µg/L	7.2747 ppb	19:48:35
3	V 292.402†	361.8	44.7	0.2453 µg/L	0.2453 ppb	19:48:35
3	Zn 213.857†	593.0	56.4	0.3471 µg/L	0.3471 ppb	19:48:55

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1768076.6	100.74 %	1.154			1.15%
Sc RADIAL	151687.2	103 %	0.6			0.58%
Y 371.029	1071145.7	100.67 %	1.120			1.11%
Ag 328.068†	-47.2	-0.1857 µg/L	0.22805	-0.1857 ppb	0.22805	122.78%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	22.4	4.5920 µg/L	4.21810	4.5920 ppb	4.21810	91.86%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	5.7	1.9783 µg/L	1.73946	1.9783 ppb	1.73946	87.93%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-15.8	-0.2580 µg/L	0.91043	-0.2580 ppb	0.91043	352.92%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	2.2	0.0098 µg/L	0.05102	0.0098 ppb	0.05102	519.34%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	120.2	0.0364 µg/L	0.00983	0.0364 ppb	0.00983	26.97%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-32.6	-1.9636 µg/L	0.68385	-1.9636 ppb	0.68385	34.83%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	20.2	0.1388 µg/L	0.05797	0.1388 ppb	0.05797	41.76%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	9.0	0.1219 µg/L	0.14156	0.1219 ppb	0.14156	116.14%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	-10.9	-0.0928 µg/L	0.10149	-0.0928 ppb	0.10149 109.33%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	93.7	0.3963 µg/L	0.29175	0.3963 ppb	0.29175 73.61%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	23.3	1.5682 µg/L	0.92624	1.5682 ppb	0.92624 59.06%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	279.2	114.92 µg/L	32.237	114.92 ppb	32.237 28.05%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	6.2	2.5659 µg/L	11.00833	2.5659 ppb	11.00833 429.02%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	35.2	0.0470 µg/L	0.02097	0.0470 ppb	0.02097 44.64%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	11.5	0.3653 µg/L	0.17604	0.3653 ppb	0.17604 48.20%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	215.6	32.641 µg/L	4.1449	32.641 ppb	4.1449 12.70%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	6.4	0.0803 µg/L	0.29619	0.0803 ppb	0.29619 369.00%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	3.1	0.7332 µg/L	2.25973	0.7332 ppb	2.25973 308.19%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	-16.2	-0.9915 µg/L	0.43745	-0.9915 ppb	0.43745 44.12%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	0.9	0.7588 µg/L	3.34932	0.7588 ppb	3.34932 441.38%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	3.9	0.5126 µg/L	0.81231	0.5126 ppb	0.81231 158.47%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	-3.7	-1.50 µg/L	3.078	-1.50 ppb	3.078 205.57%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	-35.1	-3.7610 µg/L	3.04595	-3.7610 ppb	3.04595 80.99%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	-124.3	-2.0132 µg/L	0.16387	-2.0132 ppb	0.16387 8.14%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	-6.1	-0.4209 µg/L	0.17666	-0.4209 ppb	0.17666 41.97%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	-32.1	-0.0740 µg/L	0.08130	-0.0740 ppb	0.08130 109.86%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	-82.7	-0.0836 µg/L	0.16904	-0.0836 ppb	0.16904 202.13%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	8.9	1.1955 µg/L	0.40978	1.1955 ppb	0.40978 34.28%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	19.9	1.2493 µg/L	7.87729	1.2493 ppb	7.87729 630.53%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	6.6	0.0392 µg/L	0.24421	0.0392 ppb	0.24421 622.47%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	48.2	0.2979 µg/L	0.05391	0.2979 ppb	0.05391 18.09%
	QC value within limits for Zn 213.857 Recovery = Not calculated				

All analyte(s) passed QC.

Sequence No.: 82  
 Sample ID: CCV  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 1  
 Date Collected: 3/30/2010 20:08:26  
 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	152492.6	152492.6	103 %		20:09:00
1	Al 396.153Radial†	25840.7	25113.4	5151.8 µg/L	5151.8 ppb	20:09:00
1	Ca 317.933Radial†	88303.9	84905.8	5108.6 µg/L	5108.6 ppb	20:09:00
1	Fe 238.204 Radial†	78277.2	75743.0	5096.6 µg/L	5096.6 ppb	20:09:00
1	K 766.490 Radial†	14518.5	12761.8	5248.1 µg/L	5248.1 ppb	20:09:00
1	Mg 279.077 IEC†	13252.6	12678.6	5208.9 µg/L	5208.9 ppb	20:09:00
1	Na 589.592 Radial†	69908.7	66564.5	10103 µg/L	10103 ppb	20:09:00
1	Sr 421.552†	227461.7	220728.3	509.15 µg/L	509.15 ppb	20:08:58
1	Sc 361.383	1763831.7	1763831.7	100.50 %		20:09:27
1	Y 371.029	1053819.8	1053819.8	99.039 %		20:09:27
1	Ag 328.068†	129310.9	125222.0	504.02 µg/L	504.02 ppb	20:09:27
1	As 188.979†	1441.0	1451.6	513.78 µg/L	513.78 ppb	20:09:47
1	B 249.677†	34021.5	30622.3	497.52 µg/L	497.52 ppb	20:09:27
1	Ba 233.527†	115806.9	115394.3	502.85 µg/L	502.85 ppb	20:09:27
1	Be 313.107†	1689189.5	1681591.2	504.80 µg/L	504.80 ppb	20:09:27
1	Cd 226.502†	73561.3	73306.2	503.02 µg/L	503.02 ppb	20:09:27
1	Co 228.616†	37458.7	37445.2	506.70 µg/L	506.70 ppb	20:09:27
1	Cr 267.716†	59951.5	59475.4	501.00 µg/L	501.00 ppb	20:09:27
1	Cu 324.752†	122095.5	118700.5	501.75 µg/L	501.75 ppb	20:09:27
1	Mn 257.610†	379514.6	377455.4	504.29 µg/L	504.29 ppb	20:09:27
1	Mo 202.031†	15862.8	15818.8	503.65 µg/L	503.65 ppb	20:09:47
1	Ni 231.604†	40342.2	40219.9	505.87 µg/L	505.87 ppb	20:09:27
1	P 214.914†	10682.2	10624.2	2525.5 µg/L	2525.5 ppb	20:09:47
1	Pb 220.353†	8426.4	8287.7	509.05 µg/L	509.05 ppb	20:09:47
1	S 181.975 Axial†	1326.6	1232.3	1014.4 µg/L	1014.4 ppb	20:09:47
1	Sb 206.836†	3943.5	3845.8	505.45 µg/L	505.45 ppb	20:09:47
1	Se 196.026†	1270.7	1250.8	503 µg/L	503 ppb	20:09:47
1	SiO2†	52343.3	50330.3	5363.0 µg/L	5363.0 ppb	20:09:27
1	Si 251.611†	157315.3	155585.8	2508.3 µg/L	2508.3 ppb	20:09:27
1	Sn 189.927†	7334.1	7300.2	507.10 µg/L	507.10 ppb	20:09:47
1	Ti 334.940†	504695.3	501304.8	501.57 µg/L	501.57 ppb	20:09:27
1	Tl 190.801†	3658.9	3757.8	512.53 µg/L	512.53 ppb	20:09:47
1	U 409.014†	7318.8	7566.2	504.39 µg/L	504.39 ppb	20:09:27
1	V 292.402†	94796.4	94016.1	505.83 µg/L	505.83 ppb	20:09:27
1	Zn 213.857†	82412.9	81479.3	501.37 µg/L	501.37 ppb	20:09:27
2	Sc RADIAL	150694.3	150694.3	102 %		20:09:04
2	Al 396.153Radial†	25546.9	25124.1	5154.0 µg/L	5154.0 ppb	20:09:04
2	Ca 317.933Radial†	87068.1	84715.1	5097.1 µg/L	5097.1 ppb	20:09:04
2	Fe 238.204 Radial†	77031.1	75426.2	5075.3 µg/L	5075.3 ppb	20:09:04
2	K 766.490 Radial†	14222.0	12638.8	5197.5 µg/L	5197.5 ppb	20:09:04
2	Mg 279.077 IEC†	13146.7	12728.1	5229.2 µg/L	5229.2 ppb	20:09:04
2	Na 589.592 Radial†	69279.8	66756.3	10132 µg/L	10132 ppb	20:09:04
2	Sr 421.552†	230045.6	225894.4	521.06 µg/L	521.06 ppb	20:09:02
2	Sc 361.383	1769327.2	1769327.2	100.81 %		20:09:50
2	Y 371.029	1056447.6	1056447.6	99.286 %		20:09:50
2	Ag 328.068†	129737.2	125245.2	504.11 µg/L	504.11 ppb	20:09:50
2	As 188.979†	1452.7	1458.7	516.25 µg/L	516.25 ppb	20:10:10
2	B 249.677†	34069.8	30565.1	496.58 µg/L	496.58 ppb	20:09:50
2	Ba 233.527†	116125.7	115352.6	502.67 µg/L	502.67 ppb	20:09:50
2	Be 313.107†	1695092.2	1682225.8	504.99 µg/L	504.99 ppb	20:09:50
2	Cd 226.502†	73911.3	73426.0	503.85 µg/L	503.85 ppb	20:09:50
2	Co 228.616†	37638.7	37508.0	507.55 µg/L	507.55 ppb	20:09:50
2	Cr 267.716†	60063.7	59401.4	500.38 µg/L	500.38 ppb	20:09:50
2	Cu 324.752†	122333.5	118559.3	501.15 µg/L	501.15 ppb	20:09:50
2	Mn 257.610†	380219.4	376981.6	503.66 µg/L	503.66 ppb	20:09:50
2	Mo 202.031†	15898.5	15805.2	503.21 µg/L	503.21 ppb	20:10:10
2	Ni 231.604†	40395.1	40147.7	504.97 µg/L	504.97 ppb	20:09:50
2	P 214.914†	10676.9	10585.9	2516.4 µg/L	2516.4 ppb	20:10:10
2	Pb 220.353†	8430.6	8265.7	507.72 µg/L	507.72 ppb	20:10:10



2	S 181.975 Axial†	1331.8	1233.3	1015.2 µg/L	1015.2 ppb	20:10:10
2	Sb 206.836†	3938.1	3828.3	503.15 µg/L	503.15 ppb	20:10:10
2	Se 196.026†	1284.8	1260.9	507 µg/L	507 ppb	20:10:10
2	SiO2†	52247.2	50073.3	5335.5 µg/L	5335.5 ppb	20:09:50
2	Si 251.611†	157615.4	155397.4	2505.3 µg/L	2505.3 ppb	20:09:50
2	Sn 189.927†	7360.1	7303.3	507.31 µg/L	507.31 ppb	20:10:10
2	Ti 334.940†	505771.9	500812.9	501.08 µg/L	501.08 ppb	20:09:50
2	Tl 190.801†	3674.1	3761.6	513.04 µg/L	513.04 ppb	20:10:10
2	U 409.014†	7172.0	7398.0	493.88 µg/L	493.88 ppb	20:09:50
2	V 292.402†	95174.9	94098.5	506.26 µg/L	506.26 ppb	20:09:50
2	Zn 213.857†	82692.1	81501.6	501.51 µg/L	501.51 ppb	20:09:50
3	Sc RADIAL	154446.8	154446.8	104 %		20:09:08
3	Al 396.153Radial†	26003.5	24952.3	5118.6 µg/L	5118.6 ppb	20:09:08
3	Ca 317.933Radial†	88716.2	84217.4	5067.2 µg/L	5067.2 ppb	20:09:08
3	Fe 238.204 Radial†	78683.7	75172.0	5058.2 µg/L	5058.2 ppb	20:09:08
3	K 766.490 Radial†	14554.4	12618.0	5189.0 µg/L	5189.0 ppb	20:09:08
3	Mg 279.077 IEC†	13527.8	12779.4	5250.3 µg/L	5250.3 ppb	20:09:08
3	Na 589.592 Radial†	70243.3	66027.3	10021 µg/L	10021 ppb	20:09:08
3	Sr 421.552†	227262.8	217747.9	502.27 µg/L	502.27 ppb	20:09:06
3	Sc 361.383	1761651.7	1761651.7	100.37 %		20:10:13
3	Y 371.029	1051799.2	1051799.2	98.849 %		20:10:13
3	Ag 328.068†	128756.4	124828.8	502.44 µg/L	502.44 ppb	20:10:13
3	As 188.979†	1444.1	1456.4	515.43 µg/L	515.43 ppb	20:10:33
3	B 249.677†	33918.6	30561.7	496.53 µg/L	496.53 ppb	20:10:13
3	Ba 233.527†	115397.7	115129.2	501.70 µg/L	501.70 ppb	20:10:13
3	Be 313.107†	1686215.8	1680708.6	504.54 µg/L	504.54 ppb	20:10:13
3	Cd 226.502†	73410.3	73246.4	502.62 µg/L	502.62 ppb	20:10:13
3	Co 228.616†	37340.8	37373.9	505.74 µg/L	505.74 ppb	20:10:13
3	Cr 267.716†	59568.1	59167.3	498.40 µg/L	498.40 ppb	20:10:13
3	Cu 324.752†	121704.8	118461.7	500.74 µg/L	500.74 ppb	20:10:13
3	Mn 257.610†	378156.9	376570.1	503.11 µg/L	503.11 ppb	20:10:13
3	Mo 202.031†	15839.5	15815.1	503.53 µg/L	503.53 ppb	20:10:33
3	Ni 231.604†	40122.1	40050.3	503.74 µg/L	503.74 ppb	20:10:13
3	P 214.914†	10643.3	10598.6	2519.4 µg/L	2519.4 ppb	20:10:33
3	Pb 220.353†	8391.0	8262.8	507.53 µg/L	507.53 ppb	20:10:33
3	S 181.975 Axial†	1329.0	1236.3	1017.7 µg/L	1017.7 ppb	20:10:33
3	Sb 206.836†	3919.9	3827.2	503.04 µg/L	503.04 ppb	20:10:33
3	Se 196.026†	1267.8	1249.5	502 µg/L	502 ppb	20:10:33
3	SiO2†	52154.9	50207.1	5349.8 µg/L	5349.8 ppb	20:10:13
3	Si 251.611†	156268.4	154736.6	2494.6 µg/L	2494.6 ppb	20:10:13
3	Sn 189.927†	7310.8	7286.0	506.11 µg/L	506.11 ppb	20:10:33
3	Ti 334.940†	502976.1	500213.4	500.48 µg/L	500.48 ppb	20:10:13
3	Tl 190.801†	3651.0	3754.5	512.07 µg/L	512.07 ppb	20:10:33
3	U 409.014†	7246.7	7503.4	500.36 µg/L	500.36 ppb	20:10:13
3	V 292.402†	94373.8	93711.7	504.21 µg/L	504.21 ppb	20:10:13
3	Zn 213.857†	82196.7	81365.4	500.68 µg/L	500.68 ppb	20:10:13

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1764936.9	100.56 %	0.225			0.22%
Sc RADIAL	152544.6	103 %	1.3			1.23%
Y 371.029	1054022.2	99.058 %	0.2191			0.22%
Ag 328.068†	125098.7	503.52 µg/L	0.941	503.52 ppb	0.941	0.19%
QC value within limits for Ag 328.068 Recovery = 100.70%						
Al 396.153Radial†	25063.3	5141.5 µg/L	19.83	5141.5 ppb	19.83	0.39%
QC value within limits for Al 396.153Radial Recovery = 102.83%						
As 188.979†	1455.5	515.15 µg/L	1.257	515.15 ppb	1.257	0.24%
QC value within limits for As 188.979 Recovery = 103.03%						
B 249.677†	30583.0	496.87 µg/L	0.555	496.87 ppb	0.555	0.11%
QC value within limits for B 249.677 Recovery = 99.37%						
Ba 233.527†	115292.0	502.41 µg/L	0.621	502.41 ppb	0.621	0.12%
QC value within limits for Ba 233.527 Recovery = 100.48%						
Be 313.107†	1681508.5	504.78 µg/L	0.228	504.78 ppb	0.228	0.05%
QC value within limits for Be 313.107 Recovery = 100.96%						
Ca 317.933Radial†	84612.7	5090.9 µg/L	21.39	5090.9 ppb	21.39	0.42%
QC value within limits for Ca 317.933Radial Recovery = 101.82%						
Cd 226.502†	73326.2	503.16 µg/L	0.628	503.16 ppb	0.628	0.12%
QC value within limits for Cd 226.502 Recovery = 100.63%						
Co 228.616†	37442.3	506.67 µg/L	0.907	506.67 ppb	0.907	0.18%

QC value within limits for Co 228.616 Recovery = 101.33%							
Cr 267.716†	59348.0	499.93 µg/L	1.356	499.93 ppb	1.356	0.27%	
QC value within limits for Cr 267.716 Recovery = 99.99%							
Cu 324.752†	118573.8	501.21 µg/L	0.511	501.21 ppb	0.511	0.10%	
QC value within limits for Cu 324.752 Recovery = 100.24%							
Fe 238.204 Radial†	75447.1	5076.7 µg/L	19.25	5076.7 ppb	19.25	0.38%	
QC value within limits for Fe 238.204 Radial Recovery = 101.53%							
K 766.490 Radial†	12672.9	5211.5 µg/L	31.96	5211.5 ppb	31.96	0.61%	
QC value within limits for K 766.490 Radial Recovery = 104.23%							
Mg 279.077 IEC†	12728.7	5229.5 µg/L	20.69	5229.5 ppb	20.69	0.40%	
QC value within limits for Mg 279.077 IEC Recovery = 104.59%							
Mn 257.610†	377002.4	503.69 µg/L	0.593	503.69 ppb	0.593	0.12%	
QC value within limits for Mn 257.610 Recovery = 100.74%							
Mo 202.031†	15813.0	503.46 µg/L	0.224	503.46 ppb	0.224	0.04%	
QC value within limits for Mo 202.031 Recovery = 100.69%							
Na 589.592 Radial†	66449.3	10086 µg/L	57.4	10086 ppb	57.4	0.57%	
QC value within limits for Na 589.592 Radial Recovery = 100.86%							
Ni 231.604†	40139.3	504.86 µg/L	1.070	504.86 ppb	1.070	0.21%	
QC value within limits for Ni 231.604 Recovery = 100.97%							
P 214.914†	10602.9	2520.4 µg/L	4.64	2520.4 ppb	4.64	0.18%	
QC value within limits for P 214.914 Recovery = 100.82%							
Pb 220.353†	8272.0	508.10 µg/L	0.831	508.10 ppb	0.831	0.16%	
QC value within limits for Pb 220.353 Recovery = 101.62%							
S 181.975 Axial†	1234.0	1015.8 µg/L	1.70	1015.8 ppb	1.70	0.17%	
QC value within limits for S 181.975 Axial Recovery = 101.58%							
Sb 206.836†	3833.8	503.88 µg/L	1.359	503.88 ppb	1.359	0.27%	
QC value within limits for Sb 206.836 Recovery = 100.78%							
Se 196.026†	1253.7	504 µg/L	2.5	504 ppb	2.5	0.49%	
QC value within limits for Se 196.026 Recovery = 100.81%							
SiO2†	50203.6	5349.4 µg/L	13.75	5349.4 ppb	13.75	0.26%	
QC value within limits for SiO2 Recovery = 100.04%							
Si 251.611†	155239.9	2502.7 µg/L	7.21	2502.7 ppb	7.21	0.29%	
QC value within limits for Si 251.611 Recovery = 100.11%							
Sn 189.927†	7296.5	506.84 µg/L	0.640	506.84 ppb	0.640	0.13%	
QC value within limits for Sn 189.927 Recovery = 101.37%							
Sr 421.552†	221456.9	510.83 µg/L	9.508	510.83 ppb	9.508	1.86%	
QC value within limits for Sr 421.552 Recovery = 102.17%							
Ti 334.940†	500777.0	501.04 µg/L	0.549	501.04 ppb	0.549	0.11%	
QC value within limits for Ti 334.940 Recovery = 100.21%							
Tl 190.801†	3758.0	512.55 µg/L	0.485	512.55 ppb	0.485	0.09%	
QC value within limits for Tl 190.801 Recovery = 102.51%							
U 409.014†	7489.2	499.54 µg/L	5.302	499.54 ppb	5.302	1.06%	
QC value within limits for U 409.014 Recovery = 99.91%							
V 292.402†	93942.1	505.43 µg/L	1.083	505.43 ppb	1.083	0.21%	
QC value within limits for V 292.402 Recovery = 101.09%							
Zn 213.857†	81448.7	501.19 µg/L	0.446	501.19 ppb	0.446	0.09%	
QC value within limits for Zn 213.857 Recovery = 100.24%							
All analyte(s) passed QC.							

Sequence No.: 83

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/30/2010 20:10:41

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	150834.2	150834.2	102 %		20:11:12
1	Al 396.153Radial†	-37.7	25.9	5.3387 µg/L	5.3387 ppb	20:11:32
1	Ca 317.933Radial†	680.4	-31.1	-1.8708 µg/L	-1.8708 ppb	20:11:32
1	Fe 238.204 Radial†	186.1	41.7	2.8064 µg/L	2.8064 ppb	20:11:32
1	K 766.490 Radial†	1669.8	323.7	133.22 µg/L	133.22 ppb	20:11:12
1	Mg 279.077 IEC†	182.4	10.0	4.0902 µg/L	4.0902 ppb	20:11:32
1	Na 589.592 Radial†	1552.1	314.6	47.652 µg/L	47.652 ppb	20:11:12
1	Sr 421.552†	-113.1	110.8	0.2555 µg/L	0.2555 ppb	20:11:12
1	Sc 361.383	1792841.5	1792841.5	102.15 %		20:12:33
1	Y 371.029	1083226.4	1083226.4	101.80 %		20:12:33
1	Ag 328.068†	3399.7	-119.0	-0.4739 µg/L	-0.4739 ppb	20:12:36
1	As 188.979†	-20.7	-2.6	-0.9071 µg/L	-0.9071 ppb	20:12:56
1	B 249.677†	3315.1	14.9	0.2427 µg/L	0.2427 ppb	20:12:56
1	Ba 233.527†	-147.1	18.1	0.0793 µg/L	0.0793 ppb	20:12:56
1	Be 313.107†	-835.3	-32.2	-0.0117 µg/L	-0.0117 ppb	20:12:36
1	Cd 226.502†	-92.3	19.6	0.1345 µg/L	0.1345 ppb	20:12:56
1	Co 228.616†	-167.6	8.4	0.1131 µg/L	0.1131 ppb	20:12:56
1	Cr 267.716†	177.8	-4.6	-0.0328 µg/L	-0.0328 ppb	20:12:56
1	Cu 324.752†	2855.7	6.6	0.0228 µg/L	0.0228 ppb	20:12:36
1	Mn 257.610†	214.3	34.3	0.0456 µg/L	0.0456 ppb	20:12:56
1	Mo 202.031†	-35.7	-0.2	-0.0069 µg/L	-0.0069 ppb	20:12:56
1	Ni 231.604†	-93.1	-13.2	-0.1666 µg/L	-0.1666 ppb	20:12:56
1	P 214.914†	-2.8	-7.8	-1.8501 µg/L	-1.8501 ppb	20:12:56
1	Pb 220.353†	111.4	12.0	0.7428 µg/L	0.7428 ppb	20:12:56
1	S 181.975 Axial†	95.7	6.0	4.8882 µg/L	4.8882 ppb	20:12:56
1	Sb 206.836†	82.0	2.2	0.2877 µg/L	0.2877 ppb	20:12:56
1	Se 196.026†	4.8	-8.8	-3.55 µg/L	-3.55 ppb	20:12:56
1	SiO2†	1691.2	-97.6	-10.440 µg/L	-10.440 ppb	20:12:56
1	Si 251.611†	980.7	11.4	0.1839 µg/L	0.1839 ppb	20:12:36
1	Sn 189.927†	-0.8	1.8	0.1225 µg/L	0.1225 ppb	20:12:56
1	Ti 334.940†	890.4	-14.0	-0.0116 µg/L	-0.0116 ppb	20:12:36
1	Tl 190.801†	-114.7	4.8	0.6477 µg/L	0.6477 ppb	20:12:56
1	U 409.014†	-399.7	-107.5	-6.7011 µg/L	-6.7011 ppb	20:12:36
1	V 292.402†	435.0	116.0	0.6107 µg/L	0.6107 ppb	20:12:36
1	Zn 213.857†	611.3	73.9	0.4592 µg/L	0.4592 ppb	20:12:56
2	Sc RADIAL	153677.2	153677.2	104 %		20:11:34
2	Al 396.153Radial†	-26.4	37.5	7.6972 µg/L	7.6972 ppb	20:11:54
2	Ca 317.933Radial†	665.8	-57.5	-3.4580 µg/L	-3.4580 ppb	20:11:54
2	Fe 238.204 Radial†	197.3	49.1	3.3036 µg/L	3.3036 ppb	20:11:54
2	K 766.490 Radial†	1528.6	157.6	64.866 µg/L	64.866 ppb	20:11:34
2	Mg 279.077 IEC†	170.0	-5.2	-2.1435 µg/L	-2.1435 ppb	20:11:54
2	Na 589.592 Radial†	1500.7	237.0	35.925 µg/L	35.925 ppb	20:11:34
2	Sr 421.552†	-316.3	-82.6	-0.1906 µg/L	-0.1906 ppb	20:11:34
2	Sc 361.383	1778552.8	1778552.8	101.34 %		20:12:58
2	Y 371.029	1075613.2	1075613.2	101.09 %		20:12:58
2	Ag 328.068†	3582.9	88.5	0.3563 µg/L	0.3563 ppb	20:13:00
2	As 188.979†	-13.8	4.0	1.4098 µg/L	1.4098 ppb	20:13:20
2	B 249.677†	3317.2	43.0	0.7013 µg/L	0.7013 ppb	20:13:20
2	Ba 233.527†	-152.7	11.5	0.0504 µg/L	0.0504 ppb	20:13:20
2	Be 313.107†	-823.3	-26.8	-0.0084 µg/L	-0.0084 ppb	20:13:00
2	Cd 226.502†	-95.3	16.0	0.1093 µg/L	0.1093 ppb	20:13:20
2	Co 228.616†	-165.7	8.9	0.1202 µg/L	0.1202 ppb	20:13:20
2	Cr 267.716†	184.1	3.1	0.0273 µg/L	0.0273 ppb	20:13:20
2	Cu 324.752†	2947.6	119.8	0.5042 µg/L	0.5042 ppb	20:13:00
2	Mn 257.610†	202.4	24.2	0.0324 µg/L	0.0324 ppb	20:13:20
2	Mo 202.031†	-21.1	13.9	0.4437 µg/L	0.4437 ppb	20:13:20
2	Ni 231.604†	-81.5	-2.5	-0.0317 µg/L	-0.0317 ppb	20:13:20
2	P 214.914†	14.2	9.0	2.1486 µg/L	2.1486 ppb	20:13:20
2	Pb 220.353†	99.0	0.8	0.0485 µg/L	0.0485 ppb	20:13:20

2	S 181.975 Axial†	103.3	14.3	11.686 µg/L	11.686 ppb	20:13:20
2	Sb 206.836†	67.8	-11.2	-1.4630 µg/L	-1.4630 ppb	20:13:20
2	Se 196.026†	5.3	-8.4	-3.35 µg/L	-3.35 ppb	20:13:20
2	SiO2†	1707.2	-68.5	-7.3491 µg/L	-7.3491 ppb	20:13:20
2	Si 251.611†	898.0	-62.5	-1.0236 µg/L	-1.0236 ppb	20:13:00
2	Sn 189.927†	10.3	12.7	0.8780 µg/L	0.8780 ppb	20:13:20
2	Ti 334.940†	781.3	-114.6	-0.1143 µg/L	-0.1143 ppb	20:13:00
2	Tl 190.801†	-115.0	3.6	0.4808 µg/L	0.4808 ppb	20:13:20
2	U 409.014†	-305.2	-17.4	-1.0668 µg/L	-1.0668 ppb	20:13:00
2	V 292.402†	403.1	87.9	0.4707 µg/L	0.4707 ppb	20:13:00
2	Zn 213.857†	591.8	59.4	0.3679 µg/L	0.3679 ppb	20:13:20
3	Sc RADIAL	151772.7	151772.7	103 %		20:11:56
3	Al 396.153Radial†	-69.6	-4.9	-1.0161 µg/L	-1.0161 ppb	20:12:16
3	Ca 317.933Radial†	703.6	-12.7	-0.7618 µg/L	-0.7618 ppb	20:12:16
3	Fe 238.204 Radial†	178.1	32.8	2.2047 µg/L	2.2047 ppb	20:12:16
3	K 766.490 Radial†	1685.6	329.0	135.39 µg/L	135.39 ppb	20:11:56
3	Mg 279.077 IEC†	167.7	-5.5	-2.2359 µg/L	-2.2359 ppb	20:12:16
3	Na 589.592 Radial†	1498.7	253.1	38.314 µg/L	38.314 ppb	20:11:56
3	Sr 421.552†	-135.8	89.4	0.2062 µg/L	0.2062 ppb	20:11:56
3	Sc 361.383	1801778.5	1801778.5	102.66 %		20:13:22
3	Y 371.029	1088624.3	1088624.3	102.31 %		20:13:22
3	Ag 328.068†	3610.3	69.6	0.2878 µg/L	0.2878 ppb	20:13:24
3	As 188.979†	-16.0	2.1	0.7277 µg/L	0.7277 ppb	20:13:44
3	B 249.677†	3275.6	-39.6	-0.6459 µg/L	-0.6459 ppb	20:13:44
3	Ba 233.527†	-146.1	19.8	0.0863 µg/L	0.0863 ppb	20:13:44
3	Be 313.107†	-846.4	-38.9	-0.0087 µg/L	-0.0087 ppb	20:13:24
3	Cd 226.502†	-98.2	14.3	0.0981 µg/L	0.0981 ppb	20:13:44
3	Co 228.616†	-184.4	-7.2	-0.0973 µg/L	-0.0973 ppb	20:13:44
3	Cr 267.716†	152.2	-30.3	-0.2630 µg/L	-0.2630 ppb	20:13:44
3	Cu 324.752†	2999.8	133.1	0.5692 µg/L	0.5692 ppb	20:13:24
3	Mn 257.610†	223.9	42.6	0.0570 µg/L	0.0570 ppb	20:13:44
3	Mo 202.031†	-31.6	4.0	0.1278 µg/L	0.1278 ppb	20:13:44
3	Ni 231.604†	-99.2	-18.7	-0.2356 µg/L	-0.2356 ppb	20:13:44
3	P 214.914†	29.6	23.8	5.6651 µg/L	5.6651 ppb	20:13:44
3	Pb 220.353†	85.6	-13.6	-0.8375 µg/L	-0.8375 ppb	20:13:44
3	S 181.975 Axial†	86.4	-3.5	-2.8659 µg/L	-2.8659 ppb	20:13:44
3	Sb 206.836†	80.6	0.4	0.0622 µg/L	0.0622 ppb	20:13:44
3	Se 196.026†	11.7	-2.2	-0.870 µg/L	-0.870 ppb	20:13:44
3	SiO2†	1719.7	-78.1	-8.3558 µg/L	-8.3558 ppb	20:13:44
3	Si 251.611†	813.1	-156.6	-2.5369 µg/L	-2.5369 ppb	20:13:24
3	Sn 189.927†	-2.0	0.6	0.0443 µg/L	0.0443 ppb	20:13:44
3	Ti 334.940†	891.8	-16.9	-0.0207 µg/L	-0.0207 ppb	20:13:24
3	Tl 190.801†	-117.3	2.8	0.3762 µg/L	0.3762 ppb	20:13:44
3	U 409.014†	-132.1	155.0	9.7075 µg/L	9.7075 ppb	20:13:24
3	V 292.402†	305.2	-12.5	-0.0600 µg/L	-0.0600 ppb	20:13:24
3	Zn 213.857†	604.9	64.7	0.4022 µg/L	0.4022 ppb	20:13:44

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1791057.6	102.05 %	0.668			0.65%
Sc RADIAL	152094.7	103 %	1.0			0.95%
Y 371.029	1082488.0	101.73 %	0.614			0.60%
Ag 328.068†	13.0	0.0567 µg/L	0.46081	0.0567 ppb	0.46081	812.64%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	19.5	4.0066 µg/L	4.50680	4.0066 ppb	4.50680	112.48%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.2	0.4102 µg/L	1.19068	0.4102 ppb	1.19068	290.30%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	6.1	0.0994 µg/L	0.68492	0.0994 ppb	0.68492	689.27%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	16.5	0.0720 µg/L	0.01903	0.0720 ppb	0.01903	26.43%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-32.6	-0.0096 µg/L	0.00182	-0.0096 ppb	0.00182	18.96%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-33.7	-2.0302 µg/L	1.35514	-2.0302 ppb	1.35514	66.75%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	16.7	0.1140 µg/L	0.01867	0.1140 ppb	0.01867	16.39%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	3.4	0.0453 µg/L	0.12354	0.0453 ppb	0.12354	272.54%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	-10.6	-0.0895 µg/L	0.15323	-0.0895 ppb	0.15323 171.23%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	86.5	0.3654 µg/L	0.29851	0.3654 ppb	0.29851 81.69%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	41.2	2.7716 µg/L	0.55027	2.7716 ppb	0.55027 19.85%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	270.1	111.16 µg/L	40.106	111.16 ppb	40.106 36.08%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	-0.2	-0.0964 µg/L	3.62596	-0.0964 ppb	3.62596 >999.9%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	33.7	0.0450 µg/L	0.01232	0.0450 ppb	0.01232 27.38%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	5.9	0.1882 µg/L	0.23131	0.1882 ppb	0.23131 122.92%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	268.2	40.630 µg/L	6.1977	40.630 ppb	6.1977 15.25%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	-11.5	-0.1446 µg/L	0.10372	-0.1446 ppb	0.10372 71.70%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	8.4	1.9879 µg/L	3.76019	1.9879 ppb	3.76019 189.16%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	-0.3	-0.0154 µg/L	0.79211	-0.0154 ppb	0.79211 >999.9%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	5.6	4.5696 µg/L	7.28135	4.5696 ppb	7.28135 159.34%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	-2.9	-0.3710 µg/L	0.95237	-0.3710 ppb	0.95237 256.67%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	-6.5	-2.59 µg/L	1.491	-2.59 ppb	1.491 57.63%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	-81.4	-8.7149 µg/L	1.57623	-8.7149 ppb	1.57623 18.09%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	-69.2	-1.1255 µg/L	1.36327	-1.1255 ppb	1.36327 121.12%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	5.0	0.3483 µg/L	0.46045	0.3483 ppb	0.46045 132.21%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	39.2	0.0904 µg/L	0.24455	0.0904 ppb	0.24455 270.55%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	-48.5	-0.0488 µg/L	0.05684	-0.0488 ppb	0.05684 116.37%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	3.7	0.5015 µg/L	0.13694	0.5015 ppb	0.13694 27.30%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	10.0	0.6465 µg/L	8.33737	0.6465 ppb	8.33737 >999.9%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	63.8	0.3404 µg/L	0.35383	0.3404 ppb	0.35383 103.93%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	66.0	0.4098 µg/L	0.04613	0.4098 ppb	0.04613 11.26%
	QC value within limits for Zn 213.857 Recovery = Not calculated				

All analyte(s) passed QC.

Sequence No.: 91  
 Sample ID: CCV  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 1  
 Date Collected: 3/30/2010 20:27:24  
 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	152409.0	152409.0	103 %		20:27:59
1	Al 396.153Radial†	25923.7	25207.7	5171.4 µg/L	5171.4 ppb	20:27:59
1	Ca 317.933Radial†	88727.2	85363.4	5136.1 µg/L	5136.1 ppb	20:27:59
1	Fe 238.204 Radial†	78597.1	76094.9	5120.3 µg/L	5120.3 ppb	20:27:59
1	K 766.490 Radial†	14275.3	12533.6	5154.1 µg/L	5154.1 ppb	20:27:59
1	Mg 279.077 IEC†	13379.2	12808.5	5262.1 µg/L	5262.1 ppb	20:27:59
1	Na 589.592 Radial†	70191.2	66875.6	10150 µg/L	10150 ppb	20:27:59
1	Sr 421.552†	230865.9	224151.2	517.04 µg/L	517.04 ppb	20:27:57
1	Sc 361.383	1792987.4	1792987.4	102.16 %		20:28:12
1	Y 371.029	1069539.9	1069539.9	100.52 %		20:28:12
1	Ag 328.068†	131663.1	125432.2	504.87 µg/L	504.87 ppb	20:28:12
1	As 188.979†	1456.2	1443.1	510.82 µg/L	510.82 ppb	20:28:32
1	B 249.677†	34668.8	30705.4	498.86 µg/L	498.86 ppb	20:28:12
1	Ba 233.527†	117870.6	115540.5	503.49 µg/L	503.49 ppb	20:28:12
1	Be 313.107†	1726095.8	1690385.7	507.44 µg/L	507.44 ppb	20:28:12
1	Cd 226.502†	75327.0	73844.4	506.72 µg/L	506.72 ppb	20:28:12
1	Co 228.616†	38190.3	37555.2	508.19 µg/L	508.19 ppb	20:28:12
1	Cr 267.716†	60948.5	59481.2	501.04 µg/L	501.04 ppb	20:28:12
1	Cu 324.752†	124054.5	118642.6	501.52 µg/L	501.52 ppb	20:28:12
1	Mn 257.610†	386800.7	378446.8	505.62 µg/L	505.62 ppb	20:28:12
1	Mo 202.031†	16000.7	15697.1	499.78 µg/L	499.78 ppb	20:28:32
1	Ni 231.604†	41022.1	40232.6	506.03 µg/L	506.03 ppb	20:28:12
1	P 214.914†	10782.0	10549.1	2507.6 µg/L	2507.6 ppb	20:28:32
1	Pb 220.353†	8479.4	8203.1	503.87 µg/L	503.87 ppb	20:28:32
1	S 181.975 Axial†	1343.9	1227.8	1010.7 µg/L	1010.7 ppb	20:28:32
1	Sb 206.836†	3982.9	3820.6	502.08 µg/L	502.08 ppb	20:28:32
1	Se 196.026†	1294.3	1253.4	504 µg/L	504 ppb	20:28:32
1	SiO2†	53179.9	50302.3	5360.1 µg/L	5360.1 ppb	20:28:12
1	Si 251.611†	160427.5	156086.9	2516.5 µg/L	2516.5 ppb	20:28:12
1	Sn 189.927†	7415.5	7261.3	504.40 µg/L	504.40 ppb	20:28:32
1	Ti 334.940†	514116.3	502360.5	502.62 µg/L	502.62 ppb	20:28:12
1	Tl 190.801†	3700.0	3738.9	510.00 µg/L	510.00 ppb	20:28:32
1	U 409.014†	7548.5	7672.7	511.09 µg/L	511.09 ppb	20:28:12
1	V 292.402†	96442.3	94093.3	506.20 µg/L	506.20 ppb	20:28:12
1	Zn 213.857†	84152.3	81848.5	503.65 µg/L	503.65 ppb	20:28:12
2	Sc RADIAL	151944.8	151944.8	103 %		20:28:03
2	Al 396.153Radial†	25588.5	24958.4	5119.9 µg/L	5119.9 ppb	20:28:03
2	Ca 317.933Radial†	87185.3	84126.1	5061.7 µg/L	5061.7 ppb	20:28:03
2	Fe 238.204 Radial†	77326.2	75091.3	5052.8 µg/L	5052.8 ppb	20:28:03
2	K 766.490 Radial†	14117.2	12422.1	5108.3 µg/L	5108.3 ppb	20:28:03
2	Mg 279.077 IEC†	13198.4	12672.2	5206.3 µg/L	5206.3 ppb	20:28:03
2	Na 589.592 Radial†	69297.5	66214.1	10050 µg/L	10050 ppb	20:28:03
2	Sr 421.552†	230978.7	224945.0	518.87 µg/L	518.87 ppb	20:28:01
2	Sc 361.383	1781700.2	1781700.2	101.52 %		20:28:35
2	Y 371.029	1063594.9	1063594.9	99.958 %		20:28:35
2	Ag 328.068†	130576.0	125177.8	503.82 µg/L	503.82 ppb	20:28:35
2	As 188.979†	1472.7	1468.3	519.60 µg/L	519.60 ppb	20:28:55
2	B 249.677†	34550.1	30803.5	500.47 µg/L	500.47 ppb	20:28:35
2	Ba 233.527†	117034.7	115448.1	503.09 µg/L	503.09 ppb	20:28:35
2	Be 313.107†	1710419.0	1685646.8	506.02 µg/L	506.02 ppb	20:28:35
2	Cd 226.502†	74722.2	73715.7	505.84 µg/L	505.84 ppb	20:28:35
2	Co 228.616†	37910.6	37516.6	507.67 µg/L	507.67 ppb	20:28:35
2	Cr 267.716†	60295.0	59215.5	498.82 µg/L	498.82 ppb	20:28:35
2	Cu 324.752†	122923.6	118297.9	500.04 µg/L	500.04 ppb	20:28:35
2	Mn 257.610†	383459.0	377553.7	504.42 µg/L	504.42 ppb	20:28:35
2	Mo 202.031†	15959.9	15756.2	501.65 µg/L	501.65 ppb	20:28:55
2	Ni 231.604†	40708.2	40177.9	505.35 µg/L	505.35 ppb	20:28:35
2	P 214.914†	10784.0	10617.9	2524.0 µg/L	2524.0 ppb	20:28:55
2	Pb 220.353†	8479.6	8255.9	507.11 µg/L	507.11 ppb	20:28:55

2	S 181.975 Axial†	1351.1	1243.2	1023.3 µg/L	1023.3 ppb	20:28:55
2	Sb 206.836†	3968.1	3830.7	503.47 µg/L	503.47 ppb	20:28:55
2	Se 196.026†	1295.5	1262.5	508 µg/L	508 ppb	20:28:55
2	SiO2†	52749.8	50208.5	5350.0 µg/L	5350.0 ppb	20:28:35
2	Si 251.611†	159079.4	155753.7	2511.0 µg/L	2511.0 ppb	20:28:35
2	Sn 189.927†	7397.8	7289.8	506.38 µg/L	506.38 ppb	20:28:55
2	Ti 334.940†	509336.8	500840.5	501.11 µg/L	501.11 ppb	20:28:35
2	Tl 190.801†	3703.3	3765.0	513.49 µg/L	513.49 ppb	20:28:55
2	U 409.014†	7192.9	7369.1	492.02 µg/L	492.02 ppb	20:28:35
2	V 292.402†	95619.3	93880.7	505.08 µg/L	505.08 ppb	20:28:35
2	Zn 213.857†	83504.1	81731.8	502.94 µg/L	502.94 ppb	20:28:35
3	Sc RADIAL	152324.9	152324.9	103 %		20:28:07
3	Al 396.153Radial†	25855.8	25155.7	5160.1 µg/L	5160.1 ppb	20:28:07
3	Ca 317.933Radial†	88015.5	84720.2	5097.4 µg/L	5097.4 ppb	20:28:07
3	Fe 238.204 Radial†	77711.0	75277.1	5065.3 µg/L	5065.3 ppb	20:28:07
3	K 766.490 Radial†	14386.2	12648.9	5201.6 µg/L	5201.6 ppb	20:28:07
3	Mg 279.077 IEC†	13147.5	12590.8	5173.1 µg/L	5173.1 ppb	20:28:07
3	Na 589.592 Radial†	69793.3	66527.1	10097 µg/L	10097 ppb	20:28:07
3	Sr 421.552†	228255.6	221741.4	511.48 µg/L	511.48 ppb	20:28:05
3	Sc 361.383	1779028.7	1779028.7	101.36 %		20:28:58
3	Y 371.029	1061186.3	1061186.3	99.731 %		20:28:58
3	Ag 328.068†	130722.7	125515.7	505.19 µg/L	505.19 ppb	20:28:58
3	As 188.979†	1495.3	1492.9	528.20 µg/L	528.20 ppb	20:29:18
3	B 249.677†	34531.2	30836.0	501.00 µg/L	501.00 ppb	20:28:58
3	Ba 233.527†	116783.4	115373.3	502.77 µg/L	502.77 ppb	20:28:58
3	Be 313.107†	1708362.5	1686148.1	506.17 µg/L	506.17 ppb	20:28:58
3	Cd 226.502†	74382.0	73490.6	504.29 µg/L	504.29 ppb	20:28:58
3	Co 228.616†	37838.6	37501.7	507.47 µg/L	507.47 ppb	20:28:58
3	Cr 267.716†	60213.5	59224.3	498.89 µg/L	498.89 ppb	20:28:58
3	Cu 324.752†	122777.4	118335.4	500.20 µg/L	500.20 ppb	20:28:58
3	Mn 257.610†	382989.2	377657.4	504.56 µg/L	504.56 ppb	20:28:58
3	Mo 202.031†	16246.6	16062.6	511.40 µg/L	511.40 ppb	20:29:18
3	Ni 231.604†	40722.7	40252.4	506.28 µg/L	506.28 ppb	20:28:58
3	P 214.914†	11006.7	10853.5	2580.2 µg/L	2580.2 ppb	20:29:18
3	Pb 220.353†	8678.1	8464.3	519.90 µg/L	519.90 ppb	20:29:18
3	S 181.975 Axial†	1365.6	1259.5	1036.8 µg/L	1036.8 ppb	20:29:18
3	Sb 206.836†	4043.5	3911.0	514.15 µg/L	514.15 ppb	20:29:18
3	Se 196.026†	1324.8	1293.4	520 µg/L	520 ppb	20:29:18
3	SiO2†	52900.5	50435.2	5373.8 µg/L	5373.8 ppb	20:28:58
3	Si 251.611†	159001.3	155911.9	2513.4 µg/L	2513.4 ppb	20:28:58
3	Sn 189.927†	7563.2	7463.9	518.43 µg/L	518.43 ppb	20:29:18
3	Ti 334.940†	508912.0	501174.9	501.45 µg/L	501.45 ppb	20:28:58
3	Tl 190.801†	3766.6	3832.9	522.64 µg/L	522.64 ppb	20:29:18
3	U 409.014†	7261.8	7447.8	497.01 µg/L	497.01 ppb	20:28:58
3	V 292.402†	95717.8	94119.3	506.45 µg/L	506.45 ppb	20:28:58
3	Zn 213.857†	83386.4	81739.2	502.98 µg/L	502.98 ppb	20:28:58

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1784572.1	101.68 %	0.422			0.42%
Sc RADIAL	152226.2	103 %	0.2			0.16%
Y 371.029	1064773.7	100.07 %	0.404			0.40%
Ag 328.068†	125375.2	504.63 µg/L	0.713	504.63 ppb	0.713	0.14%
QC value within limits for Ag 328.068 Recovery = 100.93%						
Al 396.153Radial†	25107.3	5150.5 µg/L	27.05	5150.5 ppb	27.05	0.53%
QC value within limits for Al 396.153Radial Recovery = 103.01%						
As 188.979†	1468.1	519.54 µg/L	8.694	519.54 ppb	8.694	1.67%
QC value within limits for As 188.979 Recovery = 103.91%						
B 249.677†	30781.6	500.11 µg/L	1.110	500.11 ppb	1.110	0.22%
QC value within limits for B 249.677 Recovery = 100.02%						
Ba 233.527†	115454.0	503.11 µg/L	0.363	503.11 ppb	0.363	0.07%
QC value within limits for Ba 233.527 Recovery = 100.62%						
Be 313.107†	1687393.5	506.54 µg/L	0.784	506.54 ppb	0.784	0.15%
QC value within limits for Be 313.107 Recovery = 101.31%						
Ca 317.933Radial†	84736.6	5098.4 µg/L	37.23	5098.4 ppb	37.23	0.73%
QC value within limits for Ca 317.933Radial Recovery = 101.97%						
Cd 226.502†	73683.6	505.62 µg/L	1.227	505.62 ppb	1.227	0.24%
QC value within limits for Cd 226.502 Recovery = 101.12%						
Co 228.616†	37524.5	507.78 µg/L	0.373	507.78 ppb	0.373	0.07%

QC value within limits for Co 228.616 Recovery = 101.56%							
Cr 267.716†	59307.0	499.58 µg/L	1.265	499.58 ppb	1.265	0.25%	
QC value within limits for Cr 267.716 Recovery = 99.92%							
Cu 324.752†	118425.3	500.59 µg/L	0.811	500.59 ppb	0.811	0.16%	
QC value within limits for Cu 324.752 Recovery = 100.12%							
Fe 238.204 Radial†	75487.8	5079.5 µg/L	35.93	5079.5 ppb	35.93	0.71%	
QC value within limits for Fe 238.204 Radial Recovery = 101.59%							
K 766.490 Radial†	12534.9	5154.7 µg/L	46.66	5154.7 ppb	46.66	0.91%	
QC value within limits for K 766.490 Radial Recovery = 103.09%							
Mg 279.077 IEC†	12690.5	5213.8 µg/L	44.96	5213.8 ppb	44.96	0.86%	
QC value within limits for Mg 279.077 IEC Recovery = 104.28%							
Mn 257.610†	377886.0	504.87 µg/L	0.651	504.87 ppb	0.651	0.13%	
QC value within limits for Mn 257.610 Recovery = 100.97%							
Mo 202.031†	15838.6	504.28 µg/L	6.239	504.28 ppb	6.239	1.24%	
QC value within limits for Mo 202.031 Recovery = 100.86%							
Na 589.592 Radial†	66538.9	10099 µg/L	50.2	10099 ppb	50.2	0.50%	
QC value within limits for Na 589.592 Radial Recovery = 100.99%							
Ni 231.604†	40220.9	505.89 µg/L	0.486	505.89 ppb	0.486	0.10%	
QC value within limits for Ni 231.604 Recovery = 101.18%							
P 214.914†	10673.5	2537.3 µg/L	38.11	2537.3 ppb	38.11	1.50%	
QC value within limits for P 214.914 Recovery = 101.49%							
Pb 220.353†	8307.8	510.29 µg/L	8.474	510.29 ppb	8.474	1.66%	
QC value within limits for Pb 220.353 Recovery = 102.06%							
S 181.975 Axial†	1243.5	1023.6 µg/L	13.05	1023.6 ppb	13.05	1.27%	
QC value within limits for S 181.975 Axial Recovery = 102.36%							
Sb 206.836†	3854.1	506.57 µg/L	6.607	506.57 ppb	6.607	1.30%	
QC value within limits for Sb 206.836 Recovery = 101.31%							
Se 196.026†	1269.8	510 µg/L	8.4	510 ppb	8.4	1.64%	
QC value within limits for Se 196.026 Recovery = 102.10%							
SiO2†	50315.3	5361.3 µg/L	11.95	5361.3 ppb	11.95	0.22%	
QC value within limits for SiO2 Recovery = 100.26%							
Si 251.611†	155917.5	2513.6 µg/L	2.72	2513.6 ppb	2.72	0.11%	
QC value within limits for Si 251.611 Recovery = 100.55%							
Sn 189.927†	7338.3	509.74 µg/L	7.594	509.74 ppb	7.594	1.49%	
QC value within limits for Sn 189.927 Recovery = 101.95%							
Sr 421.552†	223612.5	515.80 µg/L	3.849	515.80 ppb	3.849	0.75%	
QC value within limits for Sr 421.552 Recovery = 103.16%							
Ti 334.940†	501458.6	501.73 µg/L	0.794	501.73 ppb	0.794	0.16%	
QC value within limits for Ti 334.940 Recovery = 100.35%							
Tl 190.801†	3778.9	515.38 µg/L	6.524	515.38 ppb	6.524	1.27%	
QC value within limits for Tl 190.801 Recovery = 103.08%							
U 409.014†	7496.5	500.04 µg/L	9.889	500.04 ppb	9.889	1.98%	
QC value within limits for U 409.014 Recovery = 100.01%							
V 292.402†	94031.1	505.91 µg/L	0.730	505.91 ppb	0.730	0.14%	
QC value within limits for V 292.402 Recovery = 101.18%							
Zn 213.857†	81773.2	503.19 µg/L	0.400	503.19 ppb	0.400	0.08%	
QC value within limits for Zn 213.857 Recovery = 100.64%							
All analyte(s) passed QC.							



Sequence No.: 92

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/30/2010 20:29:27

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	156281.3	156281.3	106 %		20:29:58
1	Al 396.153Radial†	-57.7	8.3	1.6560 µg/L	1.6560 ppb	20:30:18
1	Ca 317.933Radial†	686.6	-48.5	-2.9187 µg/L	-2.9187 ppb	20:30:18
1	Fe 238.204 Radial†	182.2	31.7	2.1315 µg/L	2.1315 ppb	20:30:18
1	K 766.490 Radial†	1645.2	243.5	100.19 µg/L	100.19 ppb	20:29:58
1	Mg 279.077 IEC†	178.2	-0.2	-0.0569 µg/L	-0.0569 ppb	20:30:18
1	Na 589.592 Radial†	1470.9	184.7	27.961 µg/L	27.961 ppb	20:29:58
1	Sr 421.552†	-149.4	80.4	0.1854 µg/L	0.1854 ppb	20:29:58
1	Sc 361.383	1805100.9	1805100.9	102.85 %		20:31:05
1	Y 371.029	1089064.2	1089064.2	102.35 %		20:31:05
1	Ag 328.068†	3276.4	-261.5	-1.0418 µg/L	-1.0418 ppb	20:31:08
1	As 188.979†	-15.2	2.9	1.0095 µg/L	1.0095 ppb	20:31:28
1	B 249.677†	3289.2	-32.3	-0.5268 µg/L	-0.5268 ppb	20:31:28
1	Ba 233.527†	-154.2	12.3	0.0538 µg/L	0.0538 ppb	20:31:28
1	Be 313.107†	-778.8	28.4	0.0075 µg/L	0.0075 ppb	20:31:08
1	Cd 226.502†	-106.5	6.4	0.0440 µg/L	0.0440 ppb	20:31:28
1	Co 228.616†	-186.4	-8.8	-0.1189 µg/L	-0.1189 ppb	20:31:28
1	Cr 267.716†	176.3	-7.1	-0.0573 µg/L	-0.0573 ppb	20:31:28
1	Cu 324.752†	2912.1	42.5	0.1766 µg/L	0.1766 ppb	20:31:08
1	Mn 257.610†	254.1	71.4	0.0955 µg/L	0.0955 ppb	20:31:28
1	Mo 202.031†	-4.8	30.1	0.9572 µg/L	0.9572 ppb	20:31:28
1	Ni 231.604†	-67.4	12.3	0.1551 µg/L	0.1551 ppb	20:31:28
1	P 214.914†	-4.7	-9.6	-2.2950 µg/L	-2.2950 ppb	20:31:28
1	Pb 220.353†	107.2	7.3	0.4495 µg/L	0.4495 ppb	20:31:28
1	S 181.975 Axial†	106.6	16.0	13.105 µg/L	13.105 ppb	20:31:28
1	Sb 206.836†	85.7	5.2	0.7026 µg/L	0.7026 ppb	20:31:28
1	Se 196.026†	10.2	-3.7	-1.46 µg/L	-1.46 ppb	20:31:28
1	SiO2†	1732.1	-69.1	-7.4296 µg/L	-7.4296 ppb	20:31:28
1	Si 251.611†	1128.0	148.1	2.3779 µg/L	2.3779 ppb	20:31:08
1	Sn 189.927†	10.4	12.7	0.8784 µg/L	0.8784 ppb	20:31:28
1	Ti 334.940†	1019.3	105.5	0.1070 µg/L	0.1070 ppb	20:31:08
1	Tl 190.801†	-101.3	18.6	2.5044 µg/L	2.5044 ppb	20:31:28
1	U 409.014†	-344.6	-51.3	-3.2065 µg/L	-3.2065 ppb	20:31:08
1	V 292.402†	342.4	23.1	0.1298 µg/L	0.1298 ppb	20:31:08
1	Zn 213.857†	603.3	62.0	0.3835 µg/L	0.3835 ppb	20:31:28
2	Sc RADIAL	156509.3	156509.3	106 %		20:30:20
2	Al 396.153Radial†	-84.0	-16.5	-3.4369 µg/L	-3.4369 ppb	20:30:40
2	Ca 317.933Radial†	674.0	-61.4	-3.6926 µg/L	-3.6926 ppb	20:30:40
2	Fe 238.204 Radial†	164.4	14.5	0.9786 µg/L	0.9786 ppb	20:30:40
2	K 766.490 Radial†	1677.2	271.3	111.67 µg/L	111.67 ppb	20:30:20
2	Mg 279.077 IEC†	176.3	-2.3	-0.9200 µg/L	-0.9200 ppb	20:30:40
2	Na 589.592 Radial†	1451.1	164.0	24.806 µg/L	24.806 ppb	20:30:20
2	Sr 421.552†	-179.7	51.9	0.1197 µg/L	0.1197 ppb	20:30:20
2	Sc 361.383	1832032.1	1832032.1	104.38 %		20:31:30
2	Y 371.029	1105356.7	1105356.7	103.88 %		20:31:30
2	Ag 328.068†	3652.4	51.9	0.1969 µg/L	0.1969 ppb	20:31:32
2	As 188.979†	-13.3	4.9	1.7214 µg/L	1.7214 ppb	20:31:52
2	B 249.677†	3316.8	-52.9	-0.8619 µg/L	-0.8619 ppb	20:31:52
2	Ba 233.527†	-126.9	40.6	0.1771 µg/L	0.1771 ppb	20:31:52
2	Be 313.107†	-873.6	-51.3	-0.0176 µg/L	-0.0176 ppb	20:31:32
2	Cd 226.502†	-100.5	13.7	0.0942 µg/L	0.0942 ppb	20:31:52
2	Co 228.616†	-182.8	-2.7	-0.0363 µg/L	-0.0363 ppb	20:31:52
2	Cr 267.716†	174.6	-11.3	-0.0894 µg/L	-0.0894 ppb	20:31:52
2	Cu 324.752†	2740.9	-163.1	-0.6935 µg/L	-0.6935 ppb	20:31:32
2	Mn 257.610†	231.6	46.2	0.0618 µg/L	0.0618 ppb	20:31:52
2	Mo 202.031†	-11.0	24.2	0.7699 µg/L	0.7699 ppb	20:31:52
2	Ni 231.604†	-62.0	18.5	0.2321 µg/L	0.2321 ppb	20:31:52
2	P 214.914†	3.3	-1.8	-0.4309 µg/L	-0.4309 ppb	20:31:52
2	Pb 220.353†	68.1	-31.7	-1.9328 µg/L	-1.9328 ppb	20:31:52

2	S 181.975 Axial†	96.7	4.9	4.0468 µg/L	4.0468 ppb	20:31:52
2	Sb 206.836†	71.7	-9.4	-1.2149 µg/L	-1.2149 ppb	20:31:52
2	Se 196.026†	13.1	-1.0	-0.413 µg/L	-0.413 ppb	20:31:52
2	SiO2†	1768.1	-59.3	-6.3678 µg/L	-6.3678 ppb	20:31:52
2	Si 251.611†	874.9	-110.5	-1.7986 µg/L	-1.7986 ppb	20:31:32
2	Sn 189.927†	-4.3	-1.5	-0.1063 µg/L	-0.1063 ppb	20:31:52
2	Ti 334.940†	765.1	-152.6	-0.1499 µg/L	-0.1499 ppb	20:31:32
2	Tl 190.801†	-121.0	1.1	0.1488 µg/L	0.1488 ppb	20:31:52
2	U 409.014†	-419.9	-118.5	-7.4214 µg/L	-7.4214 ppb	20:31:32
2	V 292.402†	317.8	-5.3	-0.0258 µg/L	-0.0258 ppb	20:31:32
2	Zn 213.857†	609.7	59.6	0.3683 µg/L	0.3683 ppb	20:31:52
3	Sc RADIAL	153850.3	153850.3	104 %		20:30:42
3	Al 396.153Radial†	-27.3	36.7	7.5683 µg/L	7.5683 ppb	20:31:02
3	Ca 317.933Radial†	702.8	-22.7	-1.3665 µg/L	-1.3665 ppb	20:31:02
3	Fe 238.204 Radial†	188.0	39.9	2.6870 µg/L	2.6870 ppb	20:31:02
3	K 766.490 Radial†	1580.3	205.7	84.643 µg/L	84.643 ppb	20:30:42
3	Mg 279.077 IEC†	188.3	12.2	4.9762 µg/L	4.9762 ppb	20:31:02
3	Na 589.592 Radial†	1383.6	122.8	18.577 µg/L	18.577 ppb	20:30:42
3	Sr 421.552†	-133.7	93.2	0.2150 µg/L	0.2150 ppb	20:30:42
3	Sc 361.383	1826208.7	1826208.7	104.05 %		20:31:54
3	Y 371.029	1100770.0	1100770.0	103.45 %		20:31:54
3	Ag 328.068†	3330.5	-246.4	-0.9663 µg/L	-0.9663 ppb	20:31:56
3	As 188.979†	-15.0	3.3	1.1333 µg/L	1.1333 ppb	20:32:16
3	B 249.677†	3392.4	29.9	0.4882 µg/L	0.4882 ppb	20:32:16
3	Ba 233.527†	-164.4	4.1	0.0184 µg/L	0.0184 ppb	20:32:16
3	Be 313.107†	-860.1	-41.0	-0.0113 µg/L	-0.0113 ppb	20:31:56
3	Cd 226.502†	-111.1	3.2	0.0218 µg/L	0.0218 ppb	20:32:16
3	Co 228.616†	-192.3	-12.4	-0.1672 µg/L	-0.1672 ppb	20:32:16
3	Cr 267.716†	172.7	-12.6	-0.1081 µg/L	-0.1081 ppb	20:32:16
3	Cu 324.752†	2904.7	2.6	0.0142 µg/L	0.0142 ppb	20:31:56
3	Mn 257.610†	241.0	56.0	0.0747 µg/L	0.0747 ppb	20:32:16
3	Mo 202.031†	-44.3	-7.8	-0.2467 µg/L	-0.2467 ppb	20:32:16
3	Ni 231.604†	-84.2	-3.0	-0.0381 µg/L	-0.0381 ppb	20:32:16
3	P 214.914†	15.0	9.4	2.2488 µg/L	2.2488 ppb	20:32:16
3	Pb 220.353†	80.6	-19.5	-1.1963 µg/L	-1.1963 ppb	20:32:16
3	S 181.975 Axial†	94.5	3.1	2.5499 µg/L	2.5499 ppb	20:32:16
3	Sb 206.836†	95.7	13.9	1.8159 µg/L	1.8159 ppb	20:32:16
3	Se 196.026†	9.2	-4.7	-1.88 µg/L	-1.88 ppb	20:32:16
3	SiO2†	1770.6	-51.5	-5.5066 µg/L	-5.5066 ppb	20:32:16
3	Si 251.611†	865.4	-117.0	-1.8898 µg/L	-1.8898 ppb	20:31:56
3	Sn 189.927†	-3.1	-0.5	-0.0318 µg/L	-0.0318 ppb	20:32:16
3	Ti 334.940†	1025.6	100.0	0.0984 µg/L	0.0984 ppb	20:31:56
3	Tl 190.801†	-120.1	1.6	0.2289 µg/L	0.2289 ppb	20:32:16
3	U 409.014†	-239.3	53.8	3.4109 µg/L	3.4109 ppb	20:31:56
3	V 292.402†	467.6	139.6	0.7399 µg/L	0.7399 ppb	20:31:56
3	Zn 213.857†	593.8	46.1	0.2859 µg/L	0.2859 ppb	20:32:16

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1821113.9	103.76 %	0.807			0.78%
Sc RADIAL	155547.0	105 %	1.0			0.95%
Y 371.029	1098397.0	103.23 %	0.790			0.76%
Ag 328.068†	-152.0	-0.6037 µg/L	0.69441	-0.6037 ppb	0.69441	115.02%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	9.5	1.9291 µg/L	5.50766	1.9291 ppb	5.50766	285.50%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.7	1.2881 µg/L	0.38036	1.2881 ppb	0.38036	29.53%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-18.4	-0.3002 µg/L	0.70300	-0.3002 ppb	0.70300	234.18%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	19.0	0.0831 µg/L	0.08332	0.0831 ppb	0.08332	100.28%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-21.3	-0.0071 µg/L	0.01309	-0.0071 ppb	0.01309	183.66%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-44.2	-2.6593 µg/L	1.18459	-2.6593 ppb	1.18459	44.55%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	7.8	0.0533 µg/L	0.03706	0.0533 ppb	0.03706	69.48%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-7.9	-0.1075 µg/L	0.06620	-0.1075 ppb	0.06620	61.61%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-10.3	-0.0849 µg/L	0.02573	-0.0849 ppb	0.02573	30.30%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-39.4	-0.1676 µg/L	0.46265	-0.1676 ppb	0.46265	276.10%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	28.7	1.9324 µg/L	0.87141	1.9324 ppb	0.87141	45.10%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	240.2	98.835 µg/L	13.5645	98.835 ppb	13.5645	13.72%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	3.2	1.3331 µg/L	3.18442	1.3331 ppb	3.18442	238.88%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	57.9	0.0773 µg/L	0.01697	0.0773 ppb	0.01697	21.94%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	15.5	0.4935 µg/L	0.64782	0.4935 ppb	0.64782	131.28%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	157.2	23.781 µg/L	4.7751	23.781 ppb	4.7751	20.08%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	9.3	0.1164 µg/L	0.13923	0.1164 ppb	0.13923	119.65%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-0.7	-0.1590 µg/L	2.28406	-0.1590 ppb	2.28406	>999.9%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-14.6	-0.8932 µg/L	1.21977	-0.8932 ppb	1.21977	136.56%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	8.0	6.5673 µg/L	5.71125	6.5673 ppb	5.71125	86.96%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	3.2	0.4345 µg/L	1.53310	0.4345 ppb	1.53310	352.81%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-3.1	-1.25 µg/L	0.756	-1.25 ppb	0.756	60.37%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-60.0	-6.4347 µg/L	0.96329	-6.4347 ppb	0.96329	14.97%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	-26.5	-0.4368 µg/L	2.43806	-0.4368 ppb	2.43806	558.18%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	3.6	0.2467 µg/L	0.54828	0.2467 ppb	0.54828	222.22%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	75.1	0.1734 µg/L	0.04878	0.1734 ppb	0.04878	28.14%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	17.6	0.0185 µg/L	0.14588	0.0185 ppb	0.14588	788.13%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	7.1	0.9607 µg/L	1.33749	0.9607 ppb	1.33749	139.22%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-38.7	-2.4056 µg/L	5.46039	-2.4056 ppb	5.46039	226.98%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	52.4	0.2813 µg/L	0.40470	0.2813 ppb	0.40470	143.85%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	55.9	0.3459 µg/L	0.05250	0.3459 ppb	0.05250	15.18%	
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 99  
 Sample ID: CCV  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 1  
 Date Collected: 3/30/2010 20:44:50  
 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	151904.4	151904.4	103 %		20:45:24
1	Al 396.153Radial†	26022.0	25386.9	5208.1 µg/L	5208.1 ppb	20:45:24
1	Ca 317.933Radial†	87863.9	84809.2	5102.8 µg/L	5102.8 ppb	20:45:24
1	Fe 238.204 Radial†	77878.4	75648.7	5090.3 µg/L	5090.3 ppb	20:45:24
1	K 766.490 Radial†	14283.7	12587.7	5176.4 µg/L	5176.4 ppb	20:45:24
1	Mg 279.077 IEC†	13202.7	12679.8	5209.4 µg/L	5209.4 ppb	20:45:24
1	Na 589.592 Radial†	69951.5	66868.5	10149 µg/L	10149 ppb	20:45:24
1	Sr 421.552†	229239.9	223312.5	515.11 µg/L	515.11 ppb	20:45:22
1	Sc 361.383	1776612.5	1776612.5	101.23 %		20:45:37
1	Y 371.029	1062092.1	1062092.1	99.817 %		20:45:37
1	Ag 328.068†	130066.6	125042.9	503.30 µg/L	503.30 ppb	20:45:37
1	As 188.979†	1481.1	1480.8	523.96 µg/L	523.96 ppb	20:45:57
1	B 249.677†	33984.0	30341.7	492.95 µg/L	492.95 ppb	20:45:37
1	Ba 233.527†	116180.5	114934.4	500.85 µg/L	500.85 ppb	20:45:37
1	Be 313.107†	1697244.2	1677456.7	503.57 µg/L	503.57 ppb	20:45:37
1	Cd 226.502†	73550.9	72769.4	499.34 µg/L	499.34 ppb	20:45:37
1	Co 228.616†	37479.0	37197.1	503.35 µg/L	503.35 ppb	20:45:37
1	Cr 267.716†	59937.2	59032.1	497.25 µg/L	497.25 ppb	20:45:37
1	Cu 324.752†	122717.1	118440.7	500.67 µg/L	500.67 ppb	20:45:37
1	Mn 257.610†	380459.5	375672.2	501.91 µg/L	501.91 ppb	20:45:37
1	Mo 202.031†	16006.8	15847.5	504.56 µg/L	504.56 ppb	20:45:57
1	Ni 231.604†	40179.4	39770.3	500.22 µg/L	500.22 ppb	20:45:37
1	P 214.914†	10718.8	10583.9	2515.9 µg/L	2515.9 ppb	20:45:57
1	Pb 220.353†	8476.1	8276.4	508.36 µg/L	508.36 ppb	20:45:57
1	S 181.975 Axial†	1332.5	1228.7	1011.4 µg/L	1011.4 ppb	20:45:57
1	Sb 206.836†	3971.3	3845.1	505.41 µg/L	505.41 ppb	20:45:57
1	Se 196.026†	1291.7	1262.4	508 µg/L	508 ppb	20:45:57
1	Si02†	52126.0	49741.0	5299.9 µg/L	5299.9 ppb	20:45:37
1	Si 251.611†	157708.2	154847.9	2496.4 µg/L	2496.4 ppb	20:45:37
1	Sn 189.927†	7362.8	7276.1	505.42 µg/L	505.42 ppb	20:45:57
1	Ti 334.940†	507885.5	500843.6	501.11 µg/L	501.11 ppb	20:45:37
1	Tl 190.801†	3680.9	3753.3	511.93 µg/L	511.93 ppb	20:45:57
1	U 409.014†	7591.8	7783.6	517.87 µg/L	517.87 ppb	20:45:37
1	V 292.402†	95074.3	93612.0	503.69 µg/L	503.69 ppb	20:45:37
1	Zn 213.857†	82578.2	81052.7	498.76 µg/L	498.76 ppb	20:45:37
2	Sc RADIAL	152557.6	152557.6	103 %		20:45:28
2	Al 396.153Radial†	26089.2	25343.6	5199.3 µg/L	5199.3 ppb	20:45:28
2	Ca 317.933Radial†	87918.2	84495.7	5083.9 µg/L	5083.9 ppb	20:45:28
2	Fe 238.204 Radial†	78018.5	75460.0	5077.6 µg/L	5077.6 ppb	20:45:28
2	K 766.490 Radial†	14139.6	12388.6	5094.5 µg/L	5094.5 ppb	20:45:28
2	Mg 279.077 IEC†	13172.5	12595.5	5174.8 µg/L	5174.8 ppb	20:45:28
2	Na 589.592 Radial†	69979.5	66604.2	10109 µg/L	10109 ppb	20:45:28
2	Sr 421.552†	228446.9	221589.0	511.13 µg/L	511.13 ppb	20:45:26
2	Sc 361.383	1775434.8	1775434.8	101.16 %		20:46:00
2	Y 371.029	1060088.9	1060088.9	99.628 %		20:46:00
2	Ag 328.068†	129577.0	124644.2	501.69 µg/L	501.69 ppb	20:46:00
2	As 188.979†	1450.8	1451.8	513.83 µg/L	513.83 ppb	20:46:20
2	B 249.677†	34050.9	30430.2	494.40 µg/L	494.40 ppb	20:46:00
2	Ba 233.527†	116070.3	114901.6	500.71 µg/L	500.71 ppb	20:46:00
2	Be 313.107†	1697454.7	1678777.0	503.95 µg/L	503.95 ppb	20:46:00
2	Cd 226.502†	73538.2	72805.0	499.58 µg/L	499.58 ppb	20:46:00
2	Co 228.616†	37354.4	37098.6	502.01 µg/L	502.01 ppb	20:46:00
2	Cr 267.716†	59751.7	58888.0	496.06 µg/L	496.06 ppb	20:46:00
2	Cu 324.752†	122514.4	118320.7	500.13 µg/L	500.13 ppb	20:46:00
2	Mn 257.610†	379767.7	375237.6	501.33 µg/L	501.33 ppb	20:46:00
2	Mo 202.031†	15933.6	15785.7	502.59 µg/L	502.59 ppb	20:46:20
2	Ni 231.604†	40274.7	39890.8	501.74 µg/L	501.74 ppb	20:46:00
2	P 214.914†	10658.6	10531.4	2503.4 µg/L	2503.4 ppb	20:46:20
2	Pb 220.353†	8413.5	8220.0	504.93 µg/L	504.93 ppb	20:46:20

2	S 181.975 Axial†	1313.3	1210.6	996.59 µg/L	996.59 ppb	20:46:20
2	Sb 206.836†	3946.8	3823.5	502.57 µg/L	502.57 ppb	20:46:20
2	Se 196.026†	1279.2	1250.9	503 µg/L	503 ppb	20:46:20
2	SiO2†	52116.5	49765.8	5302.6 µg/L	5302.6 ppb	20:46:00
2	Si 251.611†	157497.4	154742.9	2494.7 µg/L	2494.7 ppb	20:46:00
2	Sn 189.927†	7347.5	7265.8	504.71 µg/L	504.71 ppb	20:46:20
2	Ti 334.940†	506417.0	499724.7	500.00 µg/L	500.00 ppb	20:46:00
2	Tl 190.801†	3685.4	3760.3	512.86 µg/L	512.86 ppb	20:46:20
2	U 409.014†	7082.5	7285.1	486.68 µg/L	486.68 ppb	20:46:00
2	V 292.402†	95124.4	93723.9	504.24 µg/L	504.24 ppb	20:46:00
2	Zn 213.857†	82471.4	81001.2	498.43 µg/L	498.43 ppb	20:46:00
3	Sc RADIAL	152739.9	152739.9	103 %		20:45:32
3	Al 396.153Radial†	25933.9	25163.1	5161.7 µg/L	5161.7 ppb	20:45:32
3	Ca 317.933Radial†	87836.0	84314.5	5073.0 µg/L	5073.0 ppb	20:45:32
3	Fe 238.204 Radial†	77965.7	75318.7	5068.1 µg/L	5068.1 ppb	20:45:32
3	K 766.490 Radial†	14242.6	12471.9	5128.8 µg/L	5128.8 ppb	20:45:32
3	Mg 279.077 IEC†	13175.4	12583.1	5169.9 µg/L	5169.9 ppb	20:45:32
3	Na 589.592 Radial†	69905.3	66451.5	10086 µg/L	10086 ppb	20:45:32
3	Sr 421.552†	228245.6	221130.0	510.07 µg/L	510.07 ppb	20:45:30
3	Sc 361.383	1755965.5	1755965.5	100.05 %		20:46:23
3	Y 371.029	1049080.8	1049080.8	98.594 %		20:46:23
3	Ag 328.068†	129277.4	125764.9	506.20 µg/L	506.20 ppb	20:46:23
3	As 188.979†	1463.6	1480.6	523.92 µg/L	523.92 ppb	20:46:43
3	B 249.677†	34071.9	30824.4	500.80 µg/L	500.80 ppb	20:46:23
3	Ba 233.527†	115792.6	115896.2	505.04 µg/L	505.04 ppb	20:46:23
3	Be 313.107†	1689272.9	1689204.0	507.09 µg/L	507.09 ppb	20:46:23
3	Cd 226.502†	73186.1	73259.1	502.70 µg/L	502.70 ppb	20:46:23
3	Co 228.616†	37397.7	37551.2	508.14 µg/L	508.14 ppb	20:46:23
3	Cr 267.716†	59662.3	59453.6	500.81 µg/L	500.81 ppb	20:46:23
3	Cu 324.752†	121938.4	119087.7	503.39 µg/L	503.39 ppb	20:46:23
3	Mn 257.610†	378591.5	378224.5	505.32 µg/L	505.32 ppb	20:46:23
3	Mo 202.031†	15977.6	16004.3	509.54 µg/L	509.54 ppb	20:46:43
3	Ni 231.604†	40245.7	40303.3	506.92 µg/L	506.92 ppb	20:46:23
3	P 214.914†	10714.1	10703.6	2544.4 µg/L	2544.4 ppb	20:46:43
3	Pb 220.353†	8477.9	8376.7	514.52 µg/L	514.52 ppb	20:46:43
3	S 181.975 Axial†	1318.4	1230.0	1012.6 µg/L	1012.6 ppb	20:46:43
3	Sb 206.836†	3972.2	3892.1	511.61 µg/L	511.61 ppb	20:46:43
3	Se 196.026†	1305.8	1291.6	519 µg/L	519 ppb	20:46:43
3	SiO2†	52051.9	50272.4	5356.5 µg/L	5356.5 ppb	20:46:23
3	Si 251.611†	156937.6	155909.6	2513.4 µg/L	2513.4 ppb	20:46:23
3	Sn 189.927†	7375.3	7374.1	512.22 µg/L	512.22 ppb	20:46:43
3	Ti 334.940†	504954.5	503813.5	504.09 µg/L	504.09 ppb	20:46:23
3	Tl 190.801†	3693.6	3808.8	519.42 µg/L	519.42 ppb	20:46:43
3	U 409.014†	7365.5	7645.6	509.41 µg/L	509.41 ppb	20:46:23
3	V 292.402†	94493.3	94135.7	506.53 µg/L	506.53 ppb	20:46:23
3	Zn 213.857†	81979.5	81413.5	500.96 µg/L	500.96 ppb	20:46:23

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1769337.6	100.81 %	0.661			0.66%
Sc RADIAL	152400.6	103 %	0.3			0.29%
Y 371.029	1057087.2	99.346 %	0.6584			0.66%
Ag 328.068†	125150.7	503.73 µg/L	2.284	503.73 ppb	2.284	0.45%
QC value within limits for Ag 328.068 Recovery = 100.75%						
Al 396.153Radial†	25297.9	5189.7 µg/L	24.61	5189.7 ppb	24.61	0.47%
QC value within limits for Al 396.153Radial Recovery = 103.79%						
As 188.979†	1471.1	520.57 µg/L	5.841	520.57 ppb	5.841	1.12%
QC value within limits for As 188.979 Recovery = 104.11%						
B 249.677†	30532.1	496.05 µg/L	4.179	496.05 ppb	4.179	0.84%
QC value within limits for B 249.677 Recovery = 99.21%						
Ba 233.527†	115244.1	502.20 µg/L	2.462	502.20 ppb	2.462	0.49%
QC value within limits for Ba 233.527 Recovery = 100.44%						
Be 313.107†	1681812.6	504.87 µg/L	1.932	504.87 ppb	1.932	0.38%
QC value within limits for Be 313.107 Recovery = 100.97%						
Ca 317.933Radial†	84539.8	5086.6 µg/L	15.06	5086.6 ppb	15.06	0.30%
QC value within limits for Ca 317.933Radial Recovery = 101.73%						
Cd 226.502†	72944.5	500.54 µg/L	1.877	500.54 ppb	1.877	0.38%
QC value within limits for Cd 226.502 Recovery = 100.11%						
Co 228.616†	37282.3	504.50 µg/L	3.222	504.50 ppb	3.222	0.64%

QC value within limits for Co 228.616	Recovery = 100.90%			
Cr 267.716†	59124.5	498.04 µg/L	2.470	498.04 ppb
QC value within limits for Cr 267.716	Recovery = 99.61%			
Cu 324.752†	118616.4	501.40 µg/L	1.744	501.40 ppb
QC value within limits for Cu 324.752	Recovery = 100.28%			
Fe 238.204 Radial†	75475.8	5078.7 µg/L	11.14	5078.7 ppb
QC value within limits for Fe 238.204 Radial	Recovery = 101.57%			
K 766.490 Radial†	12482.8	5133.3 µg/L	41.16	5133.3 ppb
QC value within limits for K 766.490 Radial	Recovery = 102.67%			
Mg 279.077 IEC†	12619.5	5184.7 µg/L	21.54	5184.7 ppb
QC value within limits for Mg 279.077 IEC	Recovery = 103.69%			
Mn 257.610†	376378.1	502.85 µg/L	2.157	502.85 ppb
QC value within limits for Mn 257.610	Recovery = 100.57%			
Mo 202.031†	15879.2	505.56 µg/L	3.584	505.56 ppb
QC value within limits for Mo 202.031	Recovery = 101.11%			
Na 589.592 Radial†	66641.4	10115 µg/L	32.0	10115 ppb
QC value within limits for Na 589.592 Radial	Recovery = 101.15%			
Ni 231.604†	39988.1	502.96 µg/L	3.515	502.96 ppb
QC value within limits for Ni 231.604	Recovery = 100.59%			
P 214.914†	10606.3	2521.2 µg/L	21.04	2521.2 ppb
QC value within limits for P 214.914	Recovery = 100.85%			
Pb 220.353†	8291.0	509.27 µg/L	4.860	509.27 ppb
QC value within limits for Pb 220.353	Recovery = 101.85%			
S 181.975 Axial†	1223.1	1006.9 µg/L	8.92	1006.9 ppb
QC value within limits for S 181.975 Axial	Recovery = 100.69%			
Sb 206.836†	3853.6	506.53 µg/L	4.624	506.53 ppb
QC value within limits for Sb 206.836	Recovery = 101.31%			
Se 196.026†	1268.3	510 µg/L	8.4	510 ppb
QC value within limits for Se 196.026	Recovery = 101.98%			
SiO2†	49926.4	5319.7 µg/L	31.93	5319.7 ppb
QC value within limits for SiO2	Recovery = 99.48%			
Si 251.611†	155166.8	2501.5 µg/L	10.37	2501.5 ppb
QC value within limits for Si 251.611	Recovery = 100.06%			
Sn 189.927†	7305.3	507.45 µg/L	4.146	507.45 ppb
QC value within limits for Sn 189.927	Recovery = 101.49%			
Sr 421.552†	222010.5	512.11 µg/L	2.654	512.11 ppb
QC value within limits for Sr 421.552	Recovery = 102.42%			
Ti 334.940†	501460.6	501.73 µg/L	2.113	501.73 ppb
QC value within limits for Ti 334.940	Recovery = 100.35%			
Tl 190.801†	3774.1	514.74 µg/L	4.084	514.74 ppb
QC value within limits for Tl 190.801	Recovery = 102.95%			
U 409.014†	7571.4	504.65 µg/L	16.129	504.65 ppb
QC value within limits for U 409.014	Recovery = 100.93%			
V 292.402†	93823.8	504.82 µg/L	1.507	504.82 ppb
QC value within limits for V 292.402	Recovery = 100.96%			
Zn 213.857†	81155.8	499.38 µg/L	1.372	499.38 ppb
QC value within limits for Zn 213.857	Recovery = 99.88%			

All analyte(s) passed QC.

Sequence No.: 100

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/30/2010 20:46:51

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	155077.2	155077.2	105 %		20:47:22
1	Al 396.153Radial†	-58.1	7.5	1.5209 µg/L	1.5209 ppb	20:47:42
1	Ca 317.933Radial†	682.1	-47.8	-2.8761 µg/L	-2.8761 ppb	20:47:42
1	Fe 238.204 Radial†	208.3	57.9	3.8959 µg/L	3.8959 ppb	20:47:42
1	K 766.490 Radial†	1770.5	375.0	154.32 µg/L	154.32 ppb	20:47:22
1	Mg 279.077 IEC†	165.0	-11.5	-4.7125 µg/L	-4.7125 ppb	20:47:42
1	Na 589.592 Radial†	1519.0	241.4	36.520 µg/L	36.520 ppb	20:47:22
1	Sr 421.552†	-312.4	-76.1	-0.1756 µg/L	-0.1756 ppb	20:47:22
1	Sc 361.383	1772022.9	1772022.9	100.97 %		20:48:29
1	Y 371.029	1071521.3	1071521.3	100.70 %		20:48:29
1	Ag 328.068†	3631.0	149.2	0.5928 µg/L	0.5928 ppb	20:48:32
1	As 188.979†	-14.1	3.7	1.3040 µg/L	1.3040 ppb	20:48:52
1	B 249.677†	3280.1	18.4	0.2999 µg/L	0.2999 ppb	20:48:52
1	Ba 233.527†	-160.7	3.0	0.0128 µg/L	0.0128 ppb	20:48:52
1	Be 313.107†	-902.2	-108.0	-0.0316 µg/L	-0.0316 ppb	20:48:32
1	Cd 226.502†	-77.7	33.1	0.2268 µg/L	0.2268 ppb	20:48:52
1	Co 228.616†	-158.9	15.1	0.2037 µg/L	0.2037 ppb	20:48:52
1	Cr 267.716†	213.6	33.0	0.2755 µg/L	0.2755 ppb	20:48:52
1	Cu 324.752†	2902.3	85.6	0.3637 µg/L	0.3637 ppb	20:48:32
1	Mn 257.610†	294.1	115.7	0.1548 µg/L	0.1548 ppb	20:48:52
1	Mo 202.031†	-23.8	11.2	0.3560 µg/L	0.3560 ppb	20:48:52
1	Ni 231.604†	-73.5	5.1	0.0642 µg/L	0.0642 ppb	20:48:52
1	P 214.914†	-1.1	-6.1	-1.4493 µg/L	-1.4493 ppb	20:48:52
1	Pb 220.353†	78.2	-19.5	-1.1977 µg/L	-1.1977 ppb	20:48:52
1	S 181.975 Axial†	92.0	3.4	2.7988 µg/L	2.7988 ppb	20:48:52
1	Sb 206.836†	84.0	5.1	0.6715 µg/L	0.6715 ppb	20:48:52
1	Se 196.026†	11.3	-2.4	-0.940 µg/L	-0.940 ppb	20:48:52
1	SiO2†	1742.3	-27.5	-2.9657 µg/L	-2.9657 ppb	20:48:52
1	Si 251.611†	865.4	-91.5	-1.4930 µg/L	-1.4930 ppb	20:48:32
1	Sn 189.927†	11.7	14.1	0.9793 µg/L	0.9793 ppb	20:48:52
1	Ti 334.940†	1022.4	127.0	0.1263 µg/L	0.1263 ppb	20:48:32
1	Tl 190.801†	-122.4	-4.2	-0.5597 µg/L	-0.5597 ppb	20:48:52
1	U 409.014†	-240.6	45.5	2.8296 µg/L	2.8296 ppb	20:48:32
1	V 292.402†	253.6	-58.6	-0.3051 µg/L	-0.3051 ppb	20:48:32
1	Zn 213.857†	585.2	55.0	0.3402 µg/L	0.3402 ppb	20:48:52
2	Sc RADIAL	152322.5	152322.5	103 %		20:47:44
2	Al 396.153Radial†	-11.5	51.7	10.621 µg/L	10.621 ppb	20:48:04
2	Ca 317.933Radial†	696.5	-22.0	-1.3232 µg/L	-1.3232 ppb	20:48:04
2	Fe 238.204 Radial†	196.1	49.7	3.3411 µg/L	3.3411 ppb	20:48:04
2	K 766.490 Radial†	1418.6	63.9	26.311 µg/L	26.311 ppb	20:47:44
2	Mg 279.077 IEC†	173.2	-0.7	-0.2721 µg/L	-0.2721 ppb	20:48:04
2	Na 589.592 Radial†	1435.0	186.0	28.228 µg/L	28.228 ppb	20:47:44
2	Sr 421.552†	-126.7	98.7	0.2277 µg/L	0.2277 ppb	20:47:44
2	Sc 361.383	1783249.3	1783249.3	101.61 %		20:48:54
2	Y 371.029	1077637.1	1077637.1	101.28 %		20:48:54
2	Ag 328.068†	3498.3	-4.1	-0.0242 µg/L	-0.0242 ppb	20:48:56
2	As 188.979†	-15.3	2.7	0.9292 µg/L	0.9292 ppb	20:49:16
2	B 249.677†	3255.7	-26.0	-0.4236 µg/L	-0.4236 ppb	20:49:16
2	Ba 233.527†	-142.4	22.0	0.0962 µg/L	0.0962 ppb	20:49:16
2	Be 313.107†	-680.9	115.5	0.0327 µg/L	0.0327 ppb	20:48:56
2	Cd 226.502†	-74.6	36.6	0.2510 µg/L	0.2510 ppb	20:49:16
2	Co 228.616†	-195.5	-20.0	-0.2704 µg/L	-0.2704 ppb	20:49:16
2	Cr 267.716†	166.2	-14.9	-0.1209 µg/L	-0.1209 ppb	20:49:16
2	Cu 324.752†	2910.9	76.0	0.3154 µg/L	0.3154 ppb	20:48:56
2	Mn 257.610†	292.7	112.5	0.1503 µg/L	0.1503 ppb	20:49:16
2	Mo 202.031†	-10.4	24.5	0.7804 µg/L	0.7804 ppb	20:49:16
2	Ni 231.604†	-65.0	13.9	0.1746 µg/L	0.1746 ppb	20:49:16
2	P 214.914†	0.5	-4.6	-1.0915 µg/L	-1.0915 ppb	20:49:16
2	Pb 220.353†	77.2	-21.0	-1.2764 µg/L	-1.2764 ppb	20:49:16

2	S 181.975 Axial†	100.1	10.8	8.8962 µg/L	8.8962 ppb	20:49:16
2	Sb 206.836†	87.2	7.7	1.0243 µg/L	1.0243 ppb	20:49:16
2	Se 196.026†	22.6	8.7	3.47 µg/L	3.47 ppb	20:49:16
2	SiO2†	1742.6	-38.1	-4.1083 µg/L	-4.1083 ppb	20:49:16
2	Si 251.611†	805.5	-155.9	-2.5381 µg/L	-2.5381 ppb	20:48:56
2	Sn 189.927†	8.1	10.5	0.7301 µg/L	0.7301 ppb	20:49:16
2	Ti 334.940†	1169.5	265.5	0.2686 µg/L	0.2686 ppb	20:48:56
2	Tl 190.801†	-109.1	9.7	1.3055 µg/L	1.3055 ppb	20:49:16
2	U 409.014†	-391.1	-101.1	-6.3357 µg/L	-6.3357 ppb	20:48:56
2	V 292.402†	311.4	-3.4	-0.0153 µg/L	-0.0153 ppb	20:48:56
2	Zn 213.857†	611.1	76.9	0.4757 µg/L	0.4757 ppb	20:49:16
3	Sc RADIAL	153371.0	153371.0	104 %		20:48:06
3	Al 396.153Radial†	-41.1	23.3	4.7709 µg/L	4.7709 ppb	20:48:26
3	Ca 317.933Radial†	700.1	-23.2	-1.3951 µg/L	-1.3951 ppb	20:48:26
3	Fe 238.204 Radial†	182.7	35.4	2.3798 µg/L	2.3798 ppb	20:48:26
3	K 766.490 Radial†	1464.8	99.1	40.777 µg/L	40.777 ppb	20:48:06
3	Mg 279.077 IEC†	180.7	5.3	2.2042 µg/L	2.2042 ppb	20:48:26
3	Na 589.592 Radial†	1272.9	20.3	3.0413 µg/L	3.0413 ppb	20:48:06
3	Sr 421.552†	-226.6	3.2	0.0075 µg/L	0.0075 ppb	20:48:06
3	Sc 361.383	1779882.5	1779882.5	101.41 %		20:49:18
3	Y 371.029	1076637.8	1076637.8	101.18 %		20:49:18
3	Ag 328.068†	3679.4	181.1	0.7235 µg/L	0.7235 ppb	20:49:20
3	As 188.979†	-19.6	-1.6	-0.5633 µg/L	-0.5633 ppb	20:49:40
3	B 249.677†	3227.9	-47.4	-0.7724 µg/L	-0.7724 ppb	20:49:40
3	Ba 233.527†	-154.0	10.3	0.0450 µg/L	0.0450 ppb	20:49:40
3	Be 313.107†	-863.6	-66.0	-0.0192 µg/L	-0.0192 ppb	20:49:20
3	Cd 226.502†	-99.5	12.0	0.0820 µg/L	0.0820 ppb	20:49:40
3	Co 228.616†	-184.7	-9.7	-0.1316 µg/L	-0.1316 ppb	20:49:40
3	Cr 267.716†	177.3	-3.8	-0.0332 µg/L	-0.0332 ppb	20:49:40
3	Cu 324.752†	2897.9	68.6	0.2910 µg/L	0.2910 ppb	20:49:20
3	Mn 257.610†	280.5	101.0	0.1349 µg/L	0.1349 ppb	20:49:40
3	Mo 202.031†	-18.6	16.5	0.5237 µg/L	0.5237 ppb	20:49:40
3	Ni 231.604†	-55.7	23.0	0.2888 µg/L	0.2888 ppb	20:49:40
3	P 214.914†	24.4	19.0	4.5404 µg/L	4.5404 ppb	20:49:40
3	Pb 220.353†	93.2	-5.1	-0.3114 µg/L	-0.3114 ppb	20:49:40
3	S 181.975 Axial†	91.6	2.6	2.1670 µg/L	2.1670 ppb	20:49:40
3	Sb 206.836†	89.2	9.9	1.3093 µg/L	1.3093 ppb	20:49:40
3	Se 196.026†	19.6	5.8	2.32 µg/L	2.32 ppb	20:49:40
3	SiO2†	1709.1	-67.8	-7.2800 µg/L	-7.2800 ppb	20:49:40
3	Si 251.611†	905.8	-55.5	-0.9100 µg/L	-0.9100 ppb	20:49:20
3	Sn 189.927†	7.2	9.6	0.6647 µg/L	0.6647 ppb	20:49:40
3	Ti 334.940†	1001.0	101.5	0.1006 µg/L	0.1006 ppb	20:49:20
3	Tl 190.801†	-120.6	-1.8	-0.2389 µg/L	-0.2389 ppb	20:49:40
3	U 409.014†	-254.0	33.3	2.0917 µg/L	2.0917 ppb	20:49:20
3	V 292.402†	335.0	20.4	0.1149 µg/L	0.1149 ppb	20:49:20
3	Zn 213.857†	584.6	51.9	0.3197 µg/L	0.3197 ppb	20:49:40

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1778384.9	101.33 %	0.328			0.32%
Sc RADIAL	153590.2	104 %	0.9			0.91%
Y 371.029	1075265.4	101.05 %	0.308			0.31%
Ag 328.068†	108.7	0.4307 µg/L	0.39934	0.4307 ppb	0.39934	92.71%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	27.5	5.6376 µg/L	4.61156	5.6376 ppb	4.61156	81.80%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.6	0.5566 µg/L	0.98785	0.5566 ppb	0.98785	177.47%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-18.3	-0.2987 µg/L	0.54695	-0.2987 ppb	0.54695	183.09%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	11.8	0.0513 µg/L	0.04202	0.0513 ppb	0.04202	81.86%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-19.5	-0.0060 µg/L	0.03411	-0.0060 ppb	0.03411	569.19%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-31.0	-1.8648 µg/L	0.87654	-1.8648 ppb	0.87654	47.00%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	27.2	0.1866 µg/L	0.09139	0.1866 ppb	0.09139	48.98%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-4.9	-0.0661 µg/L	0.24377	-0.0661 ppb	0.24377	368.63%



QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	4.8	0.0405 µg/L	0.20821 0.0405 ppb 0.20821 514.29%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	76.7	0.3233 µg/L	0.03701 0.3233 ppb 0.03701 11.45%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	47.6	3.2056 µg/L	0.76707 3.2056 ppb 0.76707 23.93%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	179.3	73.803 µg/L	70.1044 73.803 ppb 70.1044 94.99%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-2.3	-0.9268 µg/L	3.50451 -0.9268 ppb 3.50451 378.14%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	109.7	0.1467 µg/L	0.01044 0.1467 ppb 0.01044 7.12%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	17.4	0.5534 µg/L	0.21371 0.5534 ppb 0.21371 38.62%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	149.2	22.596 µg/L	17.4353 22.596 ppb 17.4353 77.16%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	14.0	0.1759 µg/L	0.11227 0.1759 ppb 0.11227 63.84%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	2.8	0.6665 µg/L	3.35962 0.6665 ppb 3.35962 504.06%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-15.2	-0.9285 µg/L	0.53586 -0.9285 ppb 0.53586 57.71%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	5.6	4.6207 µg/L	3.71616 4.6207 ppb 3.71616 80.42%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	7.6	1.0017 µg/L	0.31946 1.0017 ppb 0.31946 31.89%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	4.0	1.62 µg/L	2.287 1.62 ppb 2.287 141.40%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	-44.5	-4.7847 µg/L	2.23526 -4.7847 ppb 2.23526 46.72%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	-101.0	-1.6470 µg/L	0.82488 -1.6470 ppb 0.82488 50.08%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	11.4	0.7913 µg/L	0.16602 0.7913 ppb 0.16602 20.98%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	8.6	0.0199 µg/L	0.20193 0.0199 ppb 0.20193 >999.9%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	164.7	0.1652 µg/L	0.09049 0.1652 ppb 0.09049 54.78%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	1.2	0.1690 µg/L	0.99728 0.1690 ppb 0.99728 590.24%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-7.5	-0.4715 µg/L	5.09197 -0.4715 ppb 5.09197 >999.9%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-13.9	-0.0685 µg/L	0.21499 -0.0685 ppb 0.21499 313.85%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	61.3	0.3785 µg/L	0.08473 0.3785 ppb 0.08473 22.39%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 108  
 Sample ID: CCV  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 1  
 Date Collected: 3/30/2010 21:04:29  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	152250.8	152250.8	103 %		21:05:04
1	Al 396.153Radial†	25757.5	25072.5	5143.6 µg/L	5143.6 ppb	21:05:04
1	Ca 317.933Radial†	87347.2	84113.0	5060.9 µg/L	5060.9 ppb	21:05:04
1	Fe 238.204 Radial†	77578.3	75185.0	5059.1 µg/L	5059.1 ppb	21:05:04
1	K 766.490 Radial†	14103.4	12381.1	5091.4 µg/L	5091.4 ppb	21:05:04
1	Mg 279.077 IEC†	13280.7	12726.3	5228.4 µg/L	5228.4 ppb	21:05:04
1	Na 589.592 Radial†	69862.0	66626.8	10113 µg/L	10113 ppb	21:05:04
1	Sr 421.552†	229473.3	223031.7	514.46 µg/L	514.46 ppb	21:05:02
1	Sc 361.383	1785931.5	1785931.5	101.76 %		21:05:31
1	Y 371.029	1065935.1	1065935.1	100.18 %		21:05:31
1	Ag 328.068†	130784.6	125078.0	503.45 µg/L	503.45 ppb	21:05:31
1	As 188.979†	1459.8	1452.3	513.98 µg/L	513.98 ppb	21:05:51
1	B 249.677†	34479.7	30653.7	498.03 µg/L	498.03 ppb	21:05:31
1	Ba 233.527†	117298.2	115433.9	503.02 µg/L	503.02 ppb	21:05:31
1	Be 313.107†	1716488.5	1687619.6	506.61 µg/L	506.61 ppb	21:05:31
1	Cd 226.502†	74402.7	73227.3	502.49 µg/L	502.49 ppb	21:05:31
1	Co 228.616†	37892.2	37410.0	506.23 µg/L	506.23 ppb	21:05:31
1	Cr 267.716†	60425.5	59203.0	498.71 µg/L	498.71 ppb	21:05:31
1	Cu 324.752†	123299.8	118380.7	500.40 µg/L	500.40 ppb	21:05:31
1	Mn 257.610†	383700.4	376895.9	503.54 µg/L	503.54 ppb	21:05:31
1	Mo 202.031†	15863.7	15624.4	497.46 µg/L	497.46 ppb	21:05:51
1	Ni 231.604†	40730.8	40105.0	504.43 µg/L	504.43 ppb	21:05:31
1	P 214.914†	10608.0	10419.7	2476.8 µg/L	2476.8 ppb	21:05:51
1	Pb 220.353†	8405.7	8163.5	501.44 µg/L	501.44 ppb	21:05:51
1	S 181.975 Axial†	1322.8	1212.3	997.93 µg/L	997.93 ppb	21:05:51
1	Sb 206.836†	3948.9	3802.6	499.71 µg/L	499.71 ppb	21:05:51
1	Se 196.026†	1277.6	1241.9	499 µg/L	499 ppb	21:05:51
1	SiO2†	52953.2	50285.3	5358.4 µg/L	5358.4 ppb	21:05:31
1	Si 251.611†	158911.1	155217.1	2502.4 µg/L	2502.4 ppb	21:05:31
1	Sn 189.927†	7344.2	7219.9	501.53 µg/L	501.53 ppb	21:05:51
1	Ti 334.940†	510150.6	500451.5	500.72 µg/L	500.72 ppb	21:05:31
1	Tl 190.801†	3659.6	3713.5	506.57 µg/L	506.57 ppb	21:05:51
1	U 409.014†	7292.9	7450.7	497.17 µg/L	497.17 ppb	21:05:31
1	V 292.402†	96022.8	94054.1	505.96 µg/L	505.96 ppb	21:05:31
1	Zn 213.857†	83254.5	81291.6	500.22 µg/L	500.22 ppb	21:05:31
2	Sc RADIAL	152383.0	152383.0	103 %		21:05:08
2	Al 396.153Radial†	25659.2	24955.4	5119.3 µg/L	5119.3 ppb	21:05:08
2	Ca 317.933Radial†	87104.9	83804.3	5042.3 µg/L	5042.3 ppb	21:05:08
2	Fe 238.204 Radial†	77096.6	74652.3	5023.3 µg/L	5023.3 ppb	21:05:08
2	K 766.490 Radial†	14186.4	12449.7	5119.7 µg/L	5119.7 ppb	21:05:08
2	Mg 279.077 IEC†	13176.3	12613.8	5182.4 µg/L	5182.4 ppb	21:05:08
2	Na 589.592 Radial†	69373.3	66093.9	10032 µg/L	10032 ppb	21:05:08
2	Sr 421.552†	227420.0	220846.4	509.42 µg/L	509.42 ppb	21:05:06
2	Sc 361.383	1775882.2	1775882.2	101.19 %		21:05:54
2	Y 371.029	1060566.3	1060566.3	99.673 %		21:05:54
2	Ag 328.068†	130187.1	125214.9	503.98 µg/L	503.98 ppb	21:05:54
2	As 188.979†	1459.9	1460.4	516.84 µg/L	516.84 ppb	21:06:14
2	B 249.677†	34242.9	30611.4	497.35 µg/L	497.35 ppb	21:05:54
2	Ba 233.527†	116364.9	115163.8	501.85 µg/L	501.85 ppb	21:05:54
2	Be 313.107†	1701965.2	1682811.9	505.17 µg/L	505.17 ppb	21:05:54
2	Cd 226.502†	73685.9	72932.6	500.46 µg/L	500.46 ppb	21:05:54
2	Co 228.616†	37508.8	37241.8	503.96 µg/L	503.96 ppb	21:05:54
2	Cr 267.716†	60096.3	59213.6	498.79 µg/L	498.79 ppb	21:05:54
2	Cu 324.752†	122682.7	118456.5	500.71 µg/L	500.71 ppb	21:05:54
2	Mn 257.610†	380171.5	375542.1	501.74 µg/L	501.74 ppb	21:05:54
2	Mo 202.031†	15919.1	15767.4	502.01 µg/L	502.01 ppb	21:06:14
2	Ni 231.604†	40308.6	39914.3	502.03 µg/L	502.03 ppb	21:05:54
2	P 214.914†	10703.2	10572.8	2513.3 µg/L	2513.3 ppb	21:06:14
2	Pb 220.353†	8440.3	8244.4	506.40 µg/L	506.40 ppb	21:06:14

2	S 181.975 Axial†	1336.1	1232.7	1014.7 µg/L	1014.7 ppb	21:06:14
2	Sb 206.836†	3963.5	3839.0	504.56 µg/L	504.56 ppb	21:06:14
2	Se 196.026†	1275.5	1247.0	501 µg/L	501 ppb	21:06:14
2	SiO2†	52445.3	50077.7	5336.0 µg/L	5336.0 ppb	21:05:54
2	Si 251.611†	157618.5	154823.3	2496.0 µg/L	2496.0 ppb	21:05:54
2	Sn 189.927†	7354.2	7270.6	505.04 µg/L	505.04 ppb	21:06:14
2	Ti 334.940†	507231.1	500403.2	500.67 µg/L	500.67 ppb	21:05:54
2	Tl 190.801†	3683.5	3757.4	512.48 µg/L	512.48 ppb	21:06:14
2	U 409.014†	7360.2	7557.7	503.78 µg/L	503.78 ppb	21:05:54
2	V 292.402†	95210.0	93784.8	504.59 µg/L	504.59 ppb	21:05:54
2	Zn 213.857†	82476.3	80985.5	498.34 µg/L	498.34 ppb	21:05:54
3	Sc RADIAL	152054.3	152054.3	103 %		21:05:12
3	Al 396.153Radial†	25957.0	25298.7	5190.0 µg/L	5190.0 ppb	21:05:12
3	Ca 317.933Radial†	87859.0	84720.1	5097.4 µg/L	5097.4 ppb	21:05:12
3	Fe 238.204 Radial†	77827.5	75524.6	5082.0 µg/L	5082.0 ppb	21:05:12
3	K 766.490 Radial†	14288.5	12578.7	5172.7 µg/L	5172.7 ppb	21:05:12
3	Mg 279.077 IEC†	13216.7	12680.7	5209.8 µg/L	5209.8 ppb	21:05:12
3	Na 589.592 Radial†	69997.8	66846.4	10146 µg/L	10146 ppb	21:05:12
3	Sr 421.552†	228534.6	222407.0	513.02 µg/L	513.02 ppb	21:05:10
3	Sc 361.383	1774418.7	1774418.7	101.10 %		21:06:17
3	Y 371.029	1059333.3	1059333.3	99.557 %		21:06:17
3	Ag 328.068†	129903.2	125040.2	503.29 µg/L	503.29 ppb	21:06:17
3	As 188.979†	1468.6	1470.3	520.30 µg/L	520.30 ppb	21:06:37
3	B 249.677†	34264.4	30660.5	498.14 µg/L	498.14 ppb	21:06:17
3	Ba 233.527†	116526.4	115418.4	502.96 µg/L	502.96 ppb	21:06:17
3	Be 313.107†	1707296.9	1689472.8	507.17 µg/L	507.17 ppb	21:06:17
3	Cd 226.502†	74216.4	73517.5	504.48 µg/L	504.48 ppb	21:06:17
3	Co 228.616†	37578.4	37341.2	505.30 µg/L	505.30 ppb	21:06:17
3	Cr 267.716†	60098.9	59265.2	499.23 µg/L	499.23 ppb	21:06:17
3	Cu 324.752†	122854.9	118726.8	501.86 µg/L	501.86 ppb	21:06:17
3	Mn 257.610†	381315.1	376983.1	503.66 µg/L	503.66 ppb	21:06:17
3	Mo 202.031†	15906.8	15768.2	502.03 µg/L	502.03 ppb	21:06:37
3	Ni 231.604†	40397.5	40035.1	503.55 µg/L	503.55 ppb	21:06:17
3	P 214.914†	10702.5	10580.8	2515.2 µg/L	2515.2 ppb	21:06:37
3	Pb 220.353†	8443.7	8254.7	507.04 µg/L	507.04 ppb	21:06:37
3	S 181.975 Axial†	1321.3	1219.2	1003.7 µg/L	1003.7 ppb	21:06:37
3	Sb 206.836†	3947.7	3826.6	502.93 µg/L	502.93 ppb	21:06:37
3	Se 196.026†	1300.0	1272.3	511 µg/L	511 ppb	21:06:37
3	SiO2†	52544.1	50218.3	5351.0 µg/L	5351.0 ppb	21:06:17
3	Si 251.611†	158179.1	155506.3	2507.0 µg/L	2507.0 ppb	21:06:17
3	Sn 189.927†	7381.8	7303.8	507.35 µg/L	507.35 ppb	21:06:37
3	Ti 334.940†	507743.6	501323.5	501.59 µg/L	501.59 ppb	21:06:17
3	Tl 190.801†	3682.1	3759.1	512.71 µg/L	512.71 ppb	21:06:37
3	U 409.014†	7243.5	7448.3	496.99 µg/L	496.99 ppb	21:06:17
3	V 292.402†	95296.1	93947.5	505.44 µg/L	505.44 ppb	21:06:17
3	Zn 213.857†	82733.5	81307.1	500.32 µg/L	500.32 ppb	21:06:17

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1778744.1	101.35 %	0.357			0.35%
Sc RADIAL	152229.4	103 %	0.1			0.11%
Y 371.029	1061944.9	99.803 %	0.3299			0.33%
Ag 328.068†	125111.0	503.57 µg/L	0.364	503.57 ppb	0.364	0.07%
QC value within limits for Ag 328.068 Recovery = 100.71%						
Al 396.153Radial†	25108.9	5151.0 µg/L	35.94	5151.0 ppb	35.94	0.70%
QC value within limits for Al 396.153Radial Recovery = 103.02%						
As 188.979†	1461.0	517.04 µg/L	3.166	517.04 ppb	3.166	0.61%
QC value within limits for As 188.979 Recovery = 103.41%						
B 249.677†	30641.9	497.84 µg/L	0.430	497.84 ppb	0.430	0.09%
QC value within limits for B 249.677 Recovery = 99.57%						
Ba 233.527†	115338.7	502.61 µg/L	0.660	502.61 ppb	0.660	0.13%
QC value within limits for Ba 233.527 Recovery = 100.52%						
Be 313.107†	1686634.8	506.31 µg/L	1.031	506.31 ppb	1.031	0.20%
QC value within limits for Be 313.107 Recovery = 101.26%						
Ca 317.933Radial†	84212.5	5066.9 µg/L	28.03	5066.9 ppb	28.03	0.55%
QC value within limits for Ca 317.933Radial Recovery = 101.34%						
Cd 226.502†	73225.8	502.48 µg/L	2.005	502.48 ppb	2.005	0.40%
QC value within limits for Cd 226.502 Recovery = 100.50%						
Co 228.616†	37331.0	505.16 µg/L	1.144	505.16 ppb	1.144	0.23%

QC value within limits for Co 228.616	Recovery = 101.03%			
Cr 267.716†	59227.3	498.91 µg/L	0.282	498.91 ppb
QC value within limits for Cr 267.716	Recovery = 99.78%			
Cu 324.752†	118521.3	500.99 µg/L	0.768	500.99 ppb
QC value within limits for Cu 324.752	Recovery = 100.20%			
Fe 238.204 Radial†	75120.6	5054.8 µg/L	29.59	5054.8 ppb
QC value within limits for Fe 238.204 Radial	Recovery = 101.10%			
K 766.490 Radial†	12469.8	5127.9 µg/L	41.28	5127.9 ppb
QC value within limits for K 766.490 Radial	Recovery = 102.56%			
Mg 279.077 IEC†	12673.6	5206.8 µg/L	23.14	5206.8 ppb
QC value within limits for Mg 279.077 IEC	Recovery = 104.14%			
Mn 257.610†	376473.7	502.98 µg/L	1.079	502.98 ppb
QC value within limits for Mn 257.610	Recovery = 100.60%			
Mo 202.031†	15720.0	500.50 µg/L	2.633	500.50 ppb
QC value within limits for Mo 202.031	Recovery = 100.10%			
Na 589.592 Radial†	66522.3	10097 µg/L	58.7	10097 ppb
QC value within limits for Na 589.592 Radial	Recovery = 100.97%			
Ni 231.604†	40018.1	503.34 µg/L	1.213	503.34 ppb
QC value within limits for Ni 231.604	Recovery = 100.67%			
P 214.914†	10524.4	2501.7 µg/L	21.65	2501.7 ppb
QC value within limits for P 214.914	Recovery = 100.07%			
Pb 220.353†	8220.9	504.96 µg/L	3.064	504.96 ppb
QC value within limits for Pb 220.353	Recovery = 100.99%			
S 181.975 Axial†	1221.4	1005.4 µg/L	8.54	1005.4 ppb
QC value within limits for S 181.975 Axial	Recovery = 100.54%			
Sb 206.836†	3822.7	502.40 µg/L	2.468	502.40 ppb
QC value within limits for Sb 206.836	Recovery = 100.48%			
Se 196.026†	1253.7	504 µg/L	6.5	504 ppb
QC value within limits for Se 196.026	Recovery = 100.81%			
SiO2†	50193.8	5348.5 µg/L	11.40	5348.5 ppb
QC value within limits for SiO2	Recovery = 100.02%			
Si 251.611†	155182.2	2501.8 µg/L	5.55	2501.8 ppb
QC value within limits for Si 251.611	Recovery = 100.07%			
Sn 189.927†	7264.8	504.64 µg/L	2.929	504.64 ppb
QC value within limits for Sn 189.927	Recovery = 100.93%			
Sr 421.552†	222095.0	512.30 µg/L	2.596	512.30 ppb
QC value within limits for Sr 421.552	Recovery = 102.46%			
Ti 334.940†	500726.1	500.99 µg/L	0.520	500.99 ppb
QC value within limits for Ti 334.940	Recovery = 100.20%			
Tl 190.801†	3743.3	510.59 µg/L	3.479	510.59 ppb
QC value within limits for Tl 190.801	Recovery = 102.12%			
U 409.014†	7485.6	499.31 µg/L	3.873	499.31 ppb
QC value within limits for U 409.014	Recovery = 99.86%			
V 292.402†	93928.8	505.33 µg/L	0.694	505.33 ppb
QC value within limits for V 292.402	Recovery = 101.07%			
Zn 213.857†	81194.7	499.62 µg/L	1.115	499.62 ppb
QC value within limits for Zn 213.857	Recovery = 99.92%			

All analyte(s) passed QC.

Sequence No.: 109

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/30/2010 21:06:46

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	153677.2	153677.2	104 %		21:07:17
1	Al 396.153Radial†	-39.4	25.0	5.1206 µg/L	5.1206 ppb	21:07:37
1	Ca 317.933Radial†	707.2	-17.7	-1.0642 µg/L	-1.0642 ppb	21:07:37
1	Fe 238.204 Radial†	183.4	35.7	2.4036 µg/L	2.4036 ppb	21:07:37
1	K 766.490 Radial†	1690.0	312.9	128.79 µg/L	128.79 ppb	21:07:17
1	Mg 279.077 IEC†	184.2	8.4	3.4622 µg/L	3.4622 ppb	21:07:37
1	Na 589.592 Radial†	1476.4	213.6	32.321 µg/L	32.321 ppb	21:07:17
1	Sr 421.552†	-214.3	15.5	0.0358 µg/L	0.0358 ppb	21:07:17
1	Sc 361.383	1796720.7	1796720.7	102.37 %		21:08:25
1	Y 371.029	1085770.1	1085770.1	102.04 %		21:08:25
1	Ag 328.068†	3720.7	187.4	0.7385 µg/L	0.7385 ppb	21:08:27
1	As 188.979†	-12.0	6.0	2.0927 µg/L	2.0927 ppb	21:08:47
1	B 249.677†	3331.3	23.8	0.3878 µg/L	0.3878 ppb	21:08:47
1	Ba 233.527†	-142.4	23.1	0.1003 µg/L	0.1003 ppb	21:08:47
1	Be 313.107†	-604.6	195.0	0.0581 µg/L	0.0581 ppb	21:08:27
1	Cd 226.502†	-94.1	18.1	0.1240 µg/L	0.1240 ppb	21:08:47
1	Co 228.616†	-178.6	-2.0	-0.0269 µg/L	-0.0269 ppb	21:08:47
1	Cr 267.716†	166.5	-15.9	-0.1329 µg/L	-0.1329 ppb	21:08:47
1	Cu 324.752†	2915.7	59.1	0.2484 µg/L	0.2484 ppb	21:08:27
1	Mn 257.610†	293.6	111.2	0.1485 µg/L	0.1485 ppb	21:08:47
1	Mo 202.031†	-19.6	15.6	0.4978 µg/L	0.4978 ppb	21:08:47
1	Ni 231.604†	-74.8	4.8	0.0608 µg/L	0.0608 ppb	21:08:47
1	P 214.914†	-7.0	-11.8	-2.8335 µg/L	-2.8335 ppb	21:08:47
1	Pb 220.353†	99.5	0.2	0.0143 µg/L	0.0143 ppb	21:08:47
1	S 181.975 Axial†	102.2	12.2	9.9786 µg/L	9.9786 ppb	21:08:47
1	Sb 206.836†	71.1	-8.6	-1.1243 µg/L	-1.1243 ppb	21:08:47
1	Se 196.026†	-2.8	-16.3	-6.51 µg/L	-6.51 ppb	21:08:47
1	SiO2†	1754.2	-39.6	-4.2460 µg/L	-4.2460 ppb	21:08:47
1	Si 251.611†	930.5	-39.8	-0.6499 µg/L	-0.6499 ppb	21:08:47
1	Sn 189.927†	-3.0	-0.4	-0.0252 µg/L	-0.0252 ppb	21:08:47
1	Ti 334.940†	1052.4	142.4	0.1430 µg/L	0.1430 ppb	21:08:27
1	Tl 190.801†	-105.0	14.5	1.9435 µg/L	1.9435 ppb	21:08:47
1	U 409.014†	-314.9	-23.9	-1.5168 µg/L	-1.5168 ppb	21:08:27
1	V 292.402†	247.0	-68.5	-0.3606 µg/L	-0.3606 ppb	21:08:27
1	Zn 213.857†	608.2	69.5	0.4306 µg/L	0.4306 ppb	21:08:47
2	Sc RADIAL	152648.1	152648.1	103 %		21:07:39
2	Al 396.153Radial†	-26.9	36.9	7.5643 µg/L	7.5643 ppb	21:07:59
2	Ca 317.933Radial†	678.5	-40.9	-2.4620 µg/L	-2.4620 ppb	21:07:59
2	Fe 238.204 Radial†	167.8	21.8	1.4696 µg/L	1.4696 ppb	21:07:59
2	K 766.490 Radial†	1592.4	229.4	94.390 µg/L	94.390 ppb	21:07:39
2	Mg 279.077 IEC†	162.4	-11.5	-4.7167 µg/L	-4.7167 ppb	21:07:59
2	Na 589.592 Radial†	1514.2	259.8	39.365 µg/L	39.365 ppb	21:07:39
2	Sr 421.552†	-268.2	-38.1	-0.0879 µg/L	-0.0879 ppb	21:07:39
2	Sc 361.383	1777695.4	1777695.4	101.29 %		21:08:49
2	Y 371.029	1073650.9	1073650.9	100.90 %		21:08:49
2	Ag 328.068†	3732.3	237.7	0.9337 µg/L	0.9337 ppb	21:08:51
2	As 188.979†	-16.1	1.8	0.6271 µg/L	0.6271 ppb	21:09:11
2	B 249.677†	3267.6	-4.3	-0.0714 µg/L	-0.0714 ppb	21:09:11
2	Ba 233.527†	-142.9	21.0	0.0917 µg/L	0.0917 ppb	21:09:11
2	Be 313.107†	-767.2	28.2	0.0062 µg/L	0.0062 ppb	21:08:51
2	Cd 226.502†	-108.1	3.3	0.0225 µg/L	0.0225 ppb	21:09:11
2	Co 228.616†	-159.8	14.6	0.1980 µg/L	0.1980 ppb	21:09:11
2	Cr 267.716†	166.7	-14.0	-0.1123 µg/L	-0.1123 ppb	21:09:11
2	Cu 324.752†	2959.4	132.8	0.5536 µg/L	0.5536 ppb	21:08:51
2	Mn 257.610†	279.3	100.1	0.1340 µg/L	0.1340 ppb	21:09:11
2	Mo 202.031†	-14.4	20.6	0.6548 µg/L	0.6548 ppb	21:09:11
2	Ni 231.604†	-66.5	12.2	0.1537 µg/L	0.1537 ppb	21:09:11
2	P 214.914†	17.2	12.0	2.8494 µg/L	2.8494 ppb	21:09:11
2	Pb 220.353†	76.0	-21.9	-1.3349 µg/L	-1.3349 ppb	21:09:11

2	S 181.975 Axial†	93.6	4.7	3.8406 µg/L	3.8406 ppb	21:09:11
2	Sb 206.836†	72.2	-6.8	-0.8788 µg/L	-0.8788 ppb	21:09:11
2	Se 196.026†	23.3	9.4	3.76 µg/L	3.76 ppb	21:09:11
2	SiO2†	1776.4	0.7	0.0519 µg/L	0.0519 ppb	21:09:11
2	Si 251.611†	867.2	-92.5	-1.5062 µg/L	-1.5062 ppb	21:09:11
2	Sn 189.927†	-1.4	1.2	0.0804 µg/L	0.0804 ppb	21:09:11
2	Ti 334.940†	1088.0	188.5	0.1923 µg/L	0.1923 ppb	21:08:51
2	Tl 190.801†	-101.8	16.6	2.2334 µg/L	2.2334 ppb	21:09:11
2	U 409.014†	-406.8	-117.9	-7.3950 µg/L	-7.3950 ppb	21:08:51
2	V 292.402†	278.6	-34.8	-0.1839 µg/L	-0.1839 ppb	21:08:51
2	Zn 213.857†	614.9	82.5	0.5103 µg/L	0.5103 ppb	21:09:11
3	Sc RADIAL	152456.9	152456.9	103 %		21:08:01
3	Al 396.153Radial†	-85.7	-20.3	-4.1941 µg/L	-4.1941 ppb	21:08:21
3	Ca 317.933Radial†	639.6	-77.8	-4.6806 µg/L	-4.6806 ppb	21:08:21
3	Fe 238.204 Radial†	172.8	26.8	1.8037 µg/L	1.8037 ppb	21:08:21
3	K 766.490 Radial†	1590.5	229.4	94.426 µg/L	94.426 ppb	21:08:01
3	Mg 279.077 IEC†	161.4	-12.3	-5.0294 µg/L	-5.0294 ppb	21:08:21
3	Na 589.592 Radial†	1356.4	108.6	16.410 µg/L	16.410 ppb	21:08:01
3	Sr 421.552†	-294.8	-64.2	-0.1481 µg/L	-0.1481 ppb	21:08:01
3	Sc 361.383	1783257.3	1783257.3	101.61 %		21:09:13
3	Y 371.029	1077364.7	1077364.7	101.25 %		21:09:13
3	Ag 328.068†	3639.8	135.2	0.5365 µg/L	0.5365 ppb	21:09:16
3	As 188.979†	-12.3	5.6	1.9533 µg/L	1.9533 ppb	21:09:36
3	B 249.677†	3242.2	-39.4	-0.6416 µg/L	-0.6416 ppb	21:09:36
3	Ba 233.527†	-147.6	16.9	0.0739 µg/L	0.0739 ppb	21:09:36
3	Be 313.107†	-702.6	94.1	0.0265 µg/L	0.0265 ppb	21:09:16
3	Cd 226.502†	-84.1	27.2	0.1867 µg/L	0.1867 ppb	21:09:36
3	Co 228.616†	-189.7	-14.3	-0.1934 µg/L	-0.1934 ppb	21:09:36
3	Cr 267.716†	160.2	-20.9	-0.1711 µg/L	-0.1711 ppb	21:09:36
3	Cu 324.752†	2874.0	39.7	0.1624 µg/L	0.1624 ppb	21:09:16
3	Mn 257.610†	263.4	83.7	0.1120 µg/L	0.1120 ppb	21:09:36
3	Mo 202.031†	-22.7	12.4	0.3941 µg/L	0.3941 ppb	21:09:36
3	Ni 231.604†	-71.7	7.4	0.0926 µg/L	0.0926 ppb	21:09:36
3	P 214.914†	3.9	-1.1	-0.2787 µg/L	-0.2787 ppb	21:09:36
3	Pb 220.353†	90.7	-7.7	-0.4644 µg/L	-0.4644 ppb	21:09:36
3	S 181.975 Axial†	83.1	-5.9	-4.8734 µg/L	-4.8734 ppb	21:09:36
3	Sb 206.836†	81.9	2.5	0.3377 µg/L	0.3377 ppb	21:09:36
3	Se 196.026†	12.4	-1.4	-0.553 µg/L	-0.553 ppb	21:09:36
3	SiO2†	1738.8	-41.8	-4.4819 µg/L	-4.4819 ppb	21:09:36
3	Si 251.611†	838.4	-123.5	-2.0026 µg/L	-2.0026 ppb	21:09:36
3	Sn 189.927†	-7.4	-4.8	-0.3301 µg/L	-0.3301 ppb	21:09:36
3	Ti 334.940†	1011.4	109.9	0.1128 µg/L	0.1128 ppb	21:09:16
3	Tl 190.801†	-102.1	16.6	2.2400 µg/L	2.2400 ppb	21:09:36
3	U 409.014†	-381.4	-91.6	-5.7066 µg/L	-5.7066 ppb	21:09:16
3	V 292.402†	413.5	97.1	0.5147 µg/L	0.5147 ppb	21:09:16
3	Zn 213.857†	583.8	50.0	0.3095 µg/L	0.3095 ppb	21:09:36

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1785891.2	101.76 %	0.557			0.55%
Sc RADIAL	152927.4	103 %	0.4			0.43%
Y 371.029	1078928.6	101.40 %	0.584			0.58%
Ag 328.068†	186.8	0.7362 µg/L	0.19859	0.7362 ppb	0.19859	26.97%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	13.9	2.8303 µg/L	6.20477	2.8303 ppb	6.20477	219.23%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	4.5	1.5577 µg/L	0.80891	1.5577 ppb	0.80891	51.93%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-6.7	-0.1084 µg/L	0.51568	-0.1084 ppb	0.51568	475.57%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	20.3	0.0886 µg/L	0.01347	0.0886 ppb	0.01347	15.19%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	105.8	0.0303 µg/L	0.02613	0.0303 ppb	0.02613	86.30%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-45.5	-2.7356 µg/L	1.82366	-2.7356 ppb	1.82366	66.66%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	16.2	0.1111 µg/L	0.08283	0.1111 ppb	0.08283	74.57%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-0.5	-0.0074 µg/L	0.19643	-0.0074 ppb	0.19643	>999.9%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-16.9	-0.1388 µg/L	0.02980	-0.1388 ppb	0.02980	21.48%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	77.2	0.3214 µg/L	0.20556	0.3214 ppb	0.20556	63.95%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	28.1	1.8923 µg/L	0.47326	1.8923 ppb	0.47326	25.01%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	257.2	105.87 µg/L	19.849	105.87 ppb	19.849	18.75%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-5.1	-2.0946 µg/L	4.81490	-2.0946 ppb	4.81490	229.87%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	98.3	0.1315 µg/L	0.01834	0.1315 ppb	0.01834	13.95%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	16.2	0.5155 µg/L	0.13126	0.5155 ppb	0.13126	25.46%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	194.0	29.365 µg/L	11.7597	29.365 ppb	11.7597	40.05%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	8.1	0.1023 µg/L	0.04723	0.1023 ppb	0.04723	46.15%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-0.3	-0.0876 µg/L	2.84626	-0.0876 ppb	2.84626	>999.9%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-9.8	-0.5950 µg/L	0.68399	-0.5950 ppb	0.68399	114.96%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	3.6	2.9819 µg/L	7.46313	2.9819 ppb	7.46313	250.28%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-4.3	-0.5551 µg/L	0.78291	-0.5551 ppb	0.78291	141.03%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-2.7	-1.10 µg/L	5.159	-1.10 ppb	5.159	467.91%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-26.9	-2.8920 µg/L	2.55222	-2.8920 ppb	2.55222	88.25%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	-85.3	-1.3862 µg/L	0.68427	-1.3862 ppb	0.68427	49.36%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-1.3	-0.0916 µg/L	0.21320	-0.0916 ppb	0.21320	232.64%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-28.9	-0.0667 µg/L	0.09371	-0.0667 ppb	0.09371	140.45%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	146.9	0.1494 µg/L	0.04013	0.1494 ppb	0.04013	26.87%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	15.9	2.1390 µg/L	0.16933	2.1390 ppb	0.16933	7.92%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-77.8	-4.8728 µg/L	3.02650	-4.8728 ppb	3.02650	62.11%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-2.1	-0.0099 µg/L	0.46286	-0.0099 ppb	0.46286	>999.9%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	67.4	0.4168 µg/L	0.10109	0.4168 ppb	0.10109	24.25%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 114

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/30/2010 21:18:10

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	151631.9	151631.9	103 %		21:18:44
1	Al 396.153Radial†	26045.3	25455.1	5222.2 µg/L	5222.2 ppb	21:18:44
1	Ca 317.933Radial†	87712.1	84814.8	5103.1 µg/L	5103.1 ppb	21:18:44
1	Fe 238.204 Radial†	77774.2	75683.3	5092.6 µg/L	5092.6 ppb	21:18:44
1	K 766.490 Radial†	14284.5	12613.5	5187.0 µg/L	5187.0 ppb	21:18:44
1	Mg 279.077 IEC†	13202.8	12703.0	5218.9 µg/L	5218.9 ppb	21:18:44
1	Na 589.592 Radial†	69863.8	66905.4	10155 µg/L	10155 ppb	21:18:44
1	Sr 421.552†	227431.6	221950.6	511.97 µg/L	511.97 ppb	21:18:42
1	Sc 361.383	1768687.5	1768687.5	100.78 %		21:18:56
1	Y 371.029	1055307.6	1055307.6	99.179 %		21:18:56
1	Ag 328.068†	129918.8	125472.0	505.03 µg/L	505.03 ppb	21:18:56
1	As 188.979†	1473.4	1479.7	523.61 µg/L	523.61 ppb	21:19:17
1	B 249.677†	34105.9	30613.1	497.36 µg/L	497.36 ppb	21:18:56
1	Ba 233.527†	116649.9	115914.4	505.12 µg/L	505.12 ppb	21:18:56
1	Be 313.107†	1706391.0	1694045.9	508.54 µg/L	508.54 ppb	21:18:56
1	Cd 226.502†	74033.0	73573.3	504.86 µg/L	504.86 ppb	21:18:56
1	Co 228.616†	37620.2	37503.1	507.49 µg/L	507.49 ppb	21:18:56
1	Cr 267.716†	60107.5	59466.4	500.93 µg/L	500.93 ppb	21:18:56
1	Cu 324.752†	122803.0	119069.1	503.30 µg/L	503.30 ppb	21:18:56
1	Mn 257.610†	381421.7	378311.1	505.44 µg/L	505.44 ppb	21:18:56
1	Mo 202.031†	15884.6	15797.1	502.95 µg/L	502.95 ppb	21:19:17
1	Ni 231.604†	40333.2	40100.8	504.38 µg/L	504.38 ppb	21:18:56
1	P 214.914†	10682.6	10595.4	2518.6 µg/L	2518.6 ppb	21:19:17
1	Pb 220.353†	8425.9	8264.1	507.62 µg/L	507.62 ppb	21:19:17
1	S 181.975 Axial†	1325.6	1227.7	1010.7 µg/L	1010.7 ppb	21:19:17
1	Sb 206.836†	3941.9	3833.5	503.82 µg/L	503.82 ppb	21:19:17
1	Se 196.026†	1280.6	1257.2	505 µg/L	505 ppb	21:19:17
1	SiO2†	52559.2	50401.6	5370.6 µg/L	5370.6 ppb	21:18:56
1	Si 251.611†	158141.9	155976.3	2514.6 µg/L	2514.6 ppb	21:18:56
1	Sn 189.927†	7349.0	7295.0	506.74 µg/L	506.74 ppb	21:19:17
1	Ti 334.940†	507861.1	503067.5	503.34 µg/L	503.34 ppb	21:18:56
1	Tl 190.801†	3670.3	3759.2	512.75 µg/L	512.75 ppb	21:19:17
1	U 409.014†	7226.1	7454.2	497.48 µg/L	497.48 ppb	21:18:56
1	V 292.402†	95390.4	94346.5	507.57 µg/L	507.57 ppb	21:18:56
1	Zn 213.857†	82673.2	81512.5	501.58 µg/L	501.58 ppb	21:18:56
2	Sc RADIAL	153903.5	153903.5	104 %		21:18:48
2	Al 396.153Radial†	26249.1	25276.1	5185.5 µg/L	5185.5 ppb	21:18:48
2	Ca 317.933Radial†	88603.1	84408.5	5078.7 µg/L	5078.7 ppb	21:18:48
2	Fe 238.204 Radial†	78669.5	75424.2	5075.2 µg/L	5075.2 ppb	21:18:48
2	K 766.490 Radial†	14378.2	12498.0	5139.5 µg/L	5139.5 ppb	21:18:48
2	Mg 279.077 IEC†	13395.8	12698.4	5216.9 µg/L	5216.9 ppb	21:18:48
2	Na 589.592 Radial†	70515.1	66525.7	10097 µg/L	10097 ppb	21:18:48
2	Sr 421.552†	230265.8	221400.2	510.70 µg/L	510.70 ppb	21:18:46
2	Sc 361.383	1789061.4	1789061.4	101.94 %		21:19:20
2	Y 371.029	1067477.1	1067477.1	100.32 %		21:19:20
2	Ag 328.068†	131095.7	125158.4	503.76 µg/L	503.76 ppb	21:19:20
2	As 188.979†	1470.4	1460.2	516.75 µg/L	516.75 ppb	21:19:40
2	B 249.677†	34557.8	30671.0	498.32 µg/L	498.32 ppb	21:19:20
2	Ba 233.527†	117502.5	115432.7	503.02 µg/L	503.02 ppb	21:19:20
2	Be 313.107†	1722107.7	1690181.1	507.38 µg/L	507.38 ppb	21:19:20
2	Cd 226.502†	74669.3	73360.9	503.40 µg/L	503.40 ppb	21:19:20
2	Co 228.616†	37839.0	37292.7	504.64 µg/L	504.64 ppb	21:19:20
2	Cr 267.716†	60469.3	59142.1	498.19 µg/L	498.19 ppb	21:19:20
2	Cu 324.752†	123402.0	118269.0	499.93 µg/L	499.93 ppb	21:19:20
2	Mn 257.610†	383781.4	376315.8	502.77 µg/L	502.77 ppb	21:19:20
2	Mo 202.031†	15949.3	15681.1	499.26 µg/L	499.26 ppb	21:19:40
2	Ni 231.604†	40697.1	40001.9	503.13 µg/L	503.13 ppb	21:19:20
2	P 214.914†	10762.9	10553.5	2508.7 µg/L	2508.7 ppb	21:19:40
2	Pb 220.353†	8485.8	8227.7	505.37 µg/L	505.37 ppb	21:19:40



2	S 181.975 Axial†	1340.7	1227.6	1010.5 µg/L	1010.5 ppb	21:19:40
2	Sb 206.836†	3958.8	3805.5	500.14 µg/L	500.14 ppb	21:19:40
2	Se 196.026†	1301.5	1263.2	508 µg/L	508 ppb	21:19:40
2	SiO2†	52800.7	50044.6	5332.5 µg/L	5332.5 ppb	21:19:20
2	Si 251.611†	159073.2	155102.9	2500.6 µg/L	2500.6 ppb	21:19:20
2	Sn 189.927†	7411.4	7273.1	505.22 µg/L	505.22 ppb	21:19:40
2	Ti 334.940†	511242.0	500645.1	500.91 µg/L	500.91 ppb	21:19:20
2	Tl 190.801†	3687.1	3734.1	509.35 µg/L	509.35 ppb	21:19:40
2	U 409.014†	7333.2	7477.6	498.80 µg/L	498.80 ppb	21:19:20
2	V 292.402†	96018.4	93884.7	505.08 µg/L	505.08 ppb	21:19:20
2	Zn 213.857†	83458.6	81348.7	500.58 µg/L	500.58 ppb	21:19:20
3	Sc RADIAL	154073.4	154073.4	104 %		21:18:52
3	Al 396.153Radial†	26145.6	25149.0	5159.2 µg/L	5159.2 ppb	21:18:52
3	Ca 317.933Radial†	88246.9	83972.9	5052.4 µg/L	5052.4 ppb	21:18:52
3	Fe 238.204 Radial†	78381.5	75064.5	5051.0 µg/L	5051.0 ppb	21:18:52
3	K 766.490 Radial†	14455.2	12556.6	5163.7 µg/L	5163.7 ppb	21:18:52
3	Mg 279.077 IEC†	13385.3	12674.1	5207.1 µg/L	5207.1 ppb	21:18:52
3	Na 589.592 Radial†	70201.9	66150.5	10040 µg/L	10040 ppb	21:18:52
3	Sr 421.552†	230383.3	221269.1	510.40 µg/L	510.40 ppb	21:18:50
3	Sc 361.383	1774253.6	1774253.6	101.09 %		21:19:43
3	Y 371.029	1057800.0	1057800.0	99.413 %		21:19:43
3	Ag 328.068†	130220.5	125365.9	504.59 µg/L	504.59 ppb	21:19:43
3	As 188.979†	1457.4	1459.3	516.48 µg/L	516.48 ppb	21:20:03
3	B 249.677†	34468.1	30865.3	501.47 µg/L	501.47 ppb	21:19:43
3	Ba 233.527†	116797.3	115697.1	504.17 µg/L	504.17 ppb	21:19:43
3	Be 313.107†	1711330.3	1693619.7	508.41 µg/L	508.41 ppb	21:19:43
3	Cd 226.502†	74370.4	73676.7	505.57 µg/L	505.57 ppb	21:19:43
3	Co 228.616†	37728.8	37493.5	507.36 µg/L	507.36 ppb	21:19:43
3	Cr 267.716†	60198.9	59369.7	500.11 µg/L	500.11 ppb	21:19:43
3	Cu 324.752†	122728.4	118613.0	501.38 µg/L	501.38 ppb	21:19:43
3	Mn 257.610†	381598.4	377298.5	504.08 µg/L	504.08 ppb	21:19:43
3	Mo 202.031†	15887.1	15750.2	501.46 µg/L	501.46 ppb	21:20:03
3	Ni 231.604†	40432.0	40072.9	504.03 µg/L	504.03 ppb	21:19:43
3	P 214.914†	10710.5	10589.8	2517.3 µg/L	2517.3 ppb	21:20:03
3	Pb 220.353†	8465.4	8276.9	508.39 µg/L	508.39 ppb	21:20:03
3	S 181.975 Axial†	1317.3	1215.3	1000.5 µg/L	1000.5 ppb	21:20:03
3	Sb 206.836†	3935.2	3814.6	501.34 µg/L	501.34 ppb	21:20:03
3	Se 196.026†	1290.6	1263.1	508 µg/L	508 ppb	21:20:03
3	SiO2†	52664.6	50342.3	5364.3 µg/L	5364.3 ppb	21:19:43
3	Si 251.611†	158392.5	155731.9	2510.7 µg/L	2510.7 ppb	21:19:43
3	Sn 189.927†	7362.2	7285.1	506.05 µg/L	506.05 ppb	21:20:03
3	Ti 334.940†	508369.1	501989.0	502.26 µg/L	502.26 ppb	21:19:43
3	Tl 190.801†	3659.0	3736.5	509.68 µg/L	509.68 ppb	21:20:03
3	U 409.014†	7329.8	7534.3	502.39 µg/L	502.39 ppb	21:19:43
3	V 292.402†	95311.3	93971.3	505.57 µg/L	505.57 ppb	21:19:43
3	Zn 213.857†	83007.1	81585.4	502.04 µg/L	502.04 ppb	21:19:43

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1777334.1	101.27 %	0.600			0.59%
Sc RADIAL	153202.9	104 %	0.9			0.89%
Y 371.029	1060194.9	99.638 %	0.6042			0.61%
Ag 328.068†	125332.1	504.46 µg/L	0.647	504.46 ppb	0.647	0.13%
QC value within limits for Ag 328.068 Recovery = 100.89%						
Al 396.153Radial†	25293.4	5189.0 µg/L	31.66	5189.0 ppb	31.66	0.61%
QC value within limits for Al 396.153Radial Recovery = 103.78%						
As 188.979†	1466.4	518.95 µg/L	4.042	518.95 ppb	4.042	0.78%
QC value within limits for As 188.979 Recovery = 103.79%						
B 249.677†	30716.5	499.05 µg/L	2.152	499.05 ppb	2.152	0.43%
QC value within limits for B 249.677 Recovery = 99.81%						
Ba 233.527†	115681.4	504.10 µg/L	1.052	504.10 ppb	1.052	0.21%
QC value within limits for Ba 233.527 Recovery = 100.82%						
Be 313.107†	1692615.6	508.11 µg/L	0.636	508.11 ppb	0.636	0.13%
QC value within limits for Be 313.107 Recovery = 101.62%						
Ca 317.933Radial†	84398.7	5078.1 µg/L	25.33	5078.1 ppb	25.33	0.50%
QC value within limits for Ca 317.933Radial Recovery = 101.56%						
Cd 226.502†	73537.0	504.61 µg/L	1.106	504.61 ppb	1.106	0.22%
QC value within limits for Cd 226.502 Recovery = 100.92%						
Co 228.616†	37429.8	506.50 µg/L	1.608	506.50 ppb	1.608	0.32%

QC value within limits for Co 228.616 Recovery = 101.30%							
Cr 267.716†	59326.0	499.74 µg/L	1.404	499.74 ppb	1.404	0.28%	
QC value within limits for Cr 267.716 Recovery = 99.95%							
Cu 324.752†	118650.3	501.54 µg/L	1.693	501.54 ppb	1.693	0.34%	
QC value within limits for Cu 324.752 Recovery = 100.31%							
Fe 238.204 Radial†	75390.7	5072.9 µg/L	20.91	5072.9 ppb	20.91	0.41%	
QC value within limits for Fe 238.204 Radial Recovery = 101.46%							
K 766.490 Radial†	12556.0	5163.4 µg/L	23.76	5163.4 ppb	23.76	0.46%	
QC value within limits for K 766.490 Radial Recovery = 103.27%							
Mg 279.077 IEC†	12691.8	5214.3 µg/L	6.35	5214.3 ppb	6.35	0.12%	
QC value within limits for Mg 279.077 IEC Recovery = 104.29%							
Mn 257.610†	377308.4	504.10 µg/L	1.333	504.10 ppb	1.333	0.26%	
QC value within limits for Mn 257.610 Recovery = 100.82%							
Mo 202.031†	15742.8	501.23 µg/L	1.857	501.23 ppb	1.857	0.37%	
QC value within limits for Mo 202.031 Recovery = 100.25%							
Na 589.592 Radial†	66527.2	10097 µg/L	57.3	10097 ppb	57.3	0.57%	
QC value within limits for Na 589.592 Radial Recovery = 100.97%							
Ni 231.604†	40058.5	503.85 µg/L	0.641	503.85 ppb	0.641	0.13%	
QC value within limits for Ni 231.604 Recovery = 100.77%							
P 214.914†	10579.6	2514.9 µg/L	5.40	2514.9 ppb	5.40	0.21%	
QC value within limits for P 214.914 Recovery = 100.59%							
Pb 220.353†	8256.2	507.13 µg/L	1.569	507.13 ppb	1.569	0.31%	
QC value within limits for Pb 220.353 Recovery = 101.43%							
S 181.975 Axial†	1223.5	1007.2 µg/L	5.82	1007.2 ppb	5.82	0.58%	
QC value within limits for S 181.975 Axial Recovery = 100.72%							
Sb 206.836†	3817.9	501.77 µg/L	1.877	501.77 ppb	1.877	0.37%	
QC value within limits for Sb 206.836 Recovery = 100.35%							
Se 196.026†	1261.2	507 µg/L	1.4	507 ppb	1.4	0.27%	
QC value within limits for Se 196.026 Recovery = 101.41%							
SiO2†	50262.8	5355.8 µg/L	20.40	5355.8 ppb	20.40	0.38%	
QC value within limits for SiO2 Recovery = 100.16%							
Si 251.611†	155603.7	2508.6 µg/L	7.26	2508.6 ppb	7.26	0.29%	
QC value within limits for Si 251.611 Recovery = 100.35%							
Sn 189.927†	7284.4	506.00 µg/L	0.761	506.00 ppb	0.761	0.15%	
QC value within limits for Sn 189.927 Recovery = 101.20%							
Sr 421.552†	221540.0	511.02 µg/L	0.834	511.02 ppb	0.834	0.16%	
QC value within limits for Sr 421.552 Recovery = 102.20%							
Ti 334.940†	501900.6	502.17 µg/L	1.216	502.17 ppb	1.216	0.24%	
QC value within limits for Ti 334.940 Recovery = 100.43%							
Tl 190.801†	3743.3	510.59 µg/L	1.876	510.59 ppb	1.876	0.37%	
QC value within limits for Tl 190.801 Recovery = 102.12%							
U 409.014†	7488.7	499.56 µg/L	2.538	499.56 ppb	2.538	0.51%	
QC value within limits for U 409.014 Recovery = 99.91%							
V 292.402†	94067.5	506.07 µg/L	1.322	506.07 ppb	1.322	0.26%	
QC value within limits for V 292.402 Recovery = 101.21%							
Zn 213.857†	81482.2	501.40 µg/L	0.749	501.40 ppb	0.749	0.15%	
QC value within limits for Zn 213.857 Recovery = 100.28%							
All analyte(s) passed QC.							

Sequence No.: 115

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/30/2010 21:20:10

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	152696.6	152696.6	103 %		21:20:41
1	Al 396.153Radial†	-30.7	33.2	6.8400 µg/L	6.8400 ppb	21:21:01
1	Ca 317.933Radial†	683.4	-36.3	-2.1859 µg/L	-2.1859 ppb	21:21:01
1	Fe 238.204 Radial†	180.7	34.2	2.3025 µg/L	2.3025 ppb	21:21:01
1	K 766.490 Radial†	1568.6	205.8	84.677 µg/L	84.677 ppb	21:20:41
1	Mg 279.077 IEC†	186.3	11.6	4.7428 µg/L	4.7428 ppb	21:21:01
1	Na 589.592 Radial†	1531.6	276.2	41.863 µg/L	41.863 ppb	21:20:41
1	Sr 421.552†	-202.7	25.4	0.0587 µg/L	0.0587 ppb	21:20:41
1	Sc 361.383	1776337.0	1776337.0	101.21 %		21:21:48
1	Y 371.029	1071521.2	1071521.2	100.70 %		21:21:48
1	Ag 328.068†	3644.4	153.7	0.5936 µg/L	0.5936 ppb	21:21:51
1	As 188.979†	-8.6	9.1	3.1890 µg/L	3.1890 ppb	21:22:11
1	B 249.677†	3320.3	50.2	0.8180 µg/L	0.8180 ppb	21:22:11
1	Ba 233.527†	-154.6	9.4	0.0409 µg/L	0.0409 ppb	21:22:11
1	Be 313.107†	-702.4	91.6	0.0234 µg/L	0.0234 ppb	21:21:51
1	Cd 226.502†	-127.2	-15.7	-0.1077 µg/L	-0.1077 ppb	21:22:11
1	Co 228.616†	-172.0	2.5	0.0332 µg/L	0.0332 ppb	21:22:11
1	Cr 267.716†	137.8	-42.5	-0.3472 µg/L	-0.3472 ppb	21:22:11
1	Cu 324.752†	3007.5	182.5	0.7585 µg/L	0.7585 ppb	21:21:51
1	Mn 257.610†	281.6	102.6	0.1370 µg/L	0.1370 ppb	21:22:11
1	Mo 202.031†	-35.6	-0.4	-0.0121 µg/L	-0.0121 ppb	21:22:11
1	Ni 231.604†	-83.8	-4.9	-0.0620 µg/L	-0.0620 ppb	21:22:11
1	P 214.914†	-9.3	-14.2	-3.4052 µg/L	-3.4052 ppb	21:22:11
1	Pb 220.353†	70.2	-27.6	-1.6779 µg/L	-1.6779 ppb	21:22:11
1	S 181.975 Axial†	99.1	10.2	8.3793 µg/L	8.3793 ppb	21:22:11
1	Sb 206.836†	83.0	3.9	0.5207 µg/L	0.5207 ppb	21:22:11
1	Se 196.026†	17.2	3.4	1.36 µg/L	1.36 ppb	21:22:11
1	SiO2†	1762.0	-12.2	-1.3038 µg/L	-1.3038 ppb	21:22:11
1	Si 251.611†	906.5	-53.0	-0.8574 µg/L	-0.8574 ppb	21:21:51
1	Sn 189.927†	-4.5	-1.9	-0.1326 µg/L	-0.1326 ppb	21:22:11
1	Ti 334.940†	985.7	88.3	0.0937 µg/L	0.0937 ppb	21:21:51
1	Tl 190.801†	-102.8	15.6	2.0909 µg/L	2.0909 ppb	21:22:11
1	U 409.014†	-505.2	-215.4	-13.495 µg/L	-13.495 ppb	21:21:51
1	V 292.402†	301.0	-12.5	-0.0774 µg/L	-0.0774 ppb	21:21:51
1	Zn 213.857†	609.8	78.0	0.4833 µg/L	0.4833 ppb	21:22:11
2	Sc RADIAL	152475.3	152475.3	103 %		21:21:03
2	Al 396.153Radial†	-50.1	14.4	2.9305 µg/L	2.9305 ppb	21:21:23
2	Ca 317.933Radial†	636.2	-81.2	-4.8839 µg/L	-4.8839 ppb	21:21:23
2	Fe 238.204 Radial†	179.6	33.4	2.2506 µg/L	2.2506 ppb	21:21:23
2	K 766.490 Radial†	1565.5	205.0	84.362 µg/L	84.362 ppb	21:21:03
2	Mg 279.077 IEC†	157.9	-15.7	-6.4417 µg/L	-6.4417 ppb	21:21:23
2	Na 589.592 Radial†	1374.9	126.4	19.111 µg/L	19.111 ppb	21:21:03
2	Sr 421.552†	-301.4	-70.6	-0.1628 µg/L	-0.1628 ppb	21:21:03
2	Sc 361.383	1806321.5	1806321.5	102.92 %		21:22:13
2	Y 371.029	1089292.1	1089292.1	102.37 %		21:22:13
2	Ag 328.068†	3427.5	-116.9	-0.4503 µg/L	-0.4503 ppb	21:22:15
2	As 188.979†	-10.5	7.5	2.6258 µg/L	2.6258 ppb	21:22:35
2	B 249.677†	3351.1	25.7	0.4185 µg/L	0.4185 ppb	21:22:35
2	Ba 233.527†	-180.7	-13.4	-0.0578 µg/L	-0.0578 ppb	21:22:35
2	Be 313.107†	-951.9	-139.3	-0.0396 µg/L	-0.0396 ppb	21:22:15
2	Cd 226.502†	-96.5	16.3	0.1114 µg/L	0.1114 ppb	21:22:35
2	Co 228.616†	-169.0	8.2	0.1107 µg/L	0.1107 ppb	21:22:35
2	Cr 267.716†	171.1	-12.3	-0.1092 µg/L	-0.1092 ppb	21:22:35
2	Cu 324.752†	2902.5	31.2	0.1378 µg/L	0.1378 ppb	21:22:15
2	Mn 257.610†	258.5	75.6	0.1013 µg/L	0.1013 ppb	21:22:35
2	Mo 202.031†	-17.0	18.2	0.5803 µg/L	0.5803 ppb	21:22:35
2	Ni 231.604†	-101.1	-20.4	-0.2564 µg/L	-0.2564 ppb	21:22:35
2	P 214.914†	-6.7	-11.5	-2.7538 µg/L	-2.7538 ppb	21:22:35
2	Pb 220.353†	73.8	-25.3	-1.5512 µg/L	-1.5512 ppb	21:22:35

2	S 181.975 Axial†	86.2	-4.0	-3.2454 µg/L	-3.2454 ppb	21:22:35
2	Sb 206.836†	77.6	-2.7	-0.3378 µg/L	-0.3378 ppb	21:22:35
2	Se 196.026†	21.8	7.6	3.05 µg/L	3.05 ppb	21:22:35
2	SiO2†	1795.6	-8.5	-0.9269 µg/L	-0.9269 ppb	21:22:35
2	Si 251.611†	825.8	-146.3	-2.3766 µg/L	-2.3766 ppb	21:22:15
2	Sn 189.927†	-1.7	0.9	0.0615 µg/L	0.0615 ppb	21:22:35
2	Ti 334.940†	908.5	-2.8	-0.0054 µg/L	-0.0054 ppb	21:22:15
2	Tl 190.801†	-112.2	8.0	1.0825 µg/L	1.0825 ppb	21:22:35
2	U 409.014†	-170.5	118.1	7.4210 µg/L	7.4210 ppb	21:22:15
2	V 292.402†	400.8	79.5	0.4326 µg/L	0.4326 ppb	21:22:15
2	Zn 213.857†	582.6	41.5	0.2591 µg/L	0.2591 ppb	21:22:35
3	Sc RADIAL	153938.4	153938.4	104 %		21:21:25
3	Al 396.153Radial†	-92.7	-26.2	-5.4070 µg/L	-5.4070 ppb	21:21:45
3	Ca 317.933Radial†	646.7	-76.9	-4.6271 µg/L	-4.6271 ppb	21:21:45
3	Fe 238.204 Radial†	168.4	21.0	1.4158 µg/L	1.4158 ppb	21:21:45
3	K 766.490 Radial†	1549.2	174.9	72.000 µg/L	72.000 ppb	21:21:25
3	Mg 279.077 IEC†	179.9	4.0	1.6306 µg/L	1.6306 ppb	21:21:45
3	Na 589.592 Radial†	1364.7	103.9	15.716 µg/L	15.716 ppb	21:21:25
3	Sr 421.552†	-222.9	7.6	0.0177 µg/L	0.0177 ppb	21:21:25
3	Sc 361.383	1775538.2	1775538.2	101.17 %		21:22:37
3	Y 371.029	1072315.6	1072315.6	100.78 %		21:22:37
3	Ag 328.068†	3608.1	119.5	0.4897 µg/L	0.4897 ppb	21:22:39
3	As 188.979†	-10.5	7.4	2.5654 µg/L	2.5654 ppb	21:22:59
3	B 249.677†	3330.9	62.2	1.0138 µg/L	1.0138 ppb	21:22:59
3	Ba 233.527†	-161.3	2.7	0.0122 µg/L	0.0122 ppb	21:22:59
3	Be 313.107†	-1046.4	-248.8	-0.0732 µg/L	-0.0732 ppb	21:22:39
3	Cd 226.502†	-109.7	1.5	0.0106 µg/L	0.0106 ppb	21:22:59
3	Co 228.616†	-170.3	4.1	0.0555 µg/L	0.0555 ppb	21:22:59
3	Cr 267.716†	165.2	-15.3	-0.1324 µg/L	-0.1324 ppb	21:22:59
3	Cu 324.752†	2825.6	4.1	0.0218 µg/L	0.0218 ppb	21:22:39
3	Mn 257.610†	247.7	69.3	0.0925 µg/L	0.0925 ppb	21:22:59
3	Mo 202.031†	-26.8	8.3	0.2644 µg/L	0.2644 ppb	21:22:59
3	Ni 231.604†	-60.4	18.2	0.2293 µg/L	0.2293 ppb	21:22:59
3	P 214.914†	-40.5	-45.1	-10.746 µg/L	-10.746 ppb	21:22:59
3	Pb 220.353†	62.5	-35.1	-2.1545 µg/L	-2.1545 ppb	21:22:59
3	S 181.975 Axial†	88.3	-0.4	-0.3563 µg/L	-0.3563 ppb	21:22:59
3	Sb 206.836†	84.1	5.0	0.6686 µg/L	0.6686 ppb	21:22:59
3	Se 196.026†	7.9	-5.8	-2.32 µg/L	-2.32 ppb	21:22:59
3	SiO2†	1788.7	15.0	1.5853 µg/L	1.5853 ppb	21:22:59
3	Si 251.611†	855.5	-103.0	-1.6750 µg/L	-1.6750 ppb	21:22:39
3	Sn 189.927†	6.6	9.0	0.6261 µg/L	0.6261 ppb	21:22:59
3	Ti 334.940†	1070.7	172.8	0.1709 µg/L	0.1709 ppb	21:22:39
3	Tl 190.801†	-103.9	14.4	1.9412 µg/L	1.9412 ppb	21:22:59
3	U 409.014†	-208.0	78.2	4.9397 µg/L	4.9397 ppb	21:22:39
3	V 292.402†	452.0	136.9	0.7322 µg/L	0.7322 ppb	21:22:39
3	Zn 213.857†	610.2	78.6	0.4858 µg/L	0.4858 ppb	21:22:59

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1786065.6	101.77 %	1.000			0.98%
Sc RADIAL	153036.8	104 %	0.5			0.52%
Y 371.029	1077709.6	101.28 %	0.943			0.93%
Ag 328.068†	52.1	0.2110 µg/L	0.57507	0.2110 ppb	0.57507	272.55%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	7.1	1.4545 µg/L	6.25546	1.4545 ppb	6.25546	430.08%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	8.0	2.7934 µg/L	0.34392	2.7934 ppb	0.34392	12.31%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	46.0	0.7501 µg/L	0.30341	0.7501 ppb	0.30341	40.45%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-0.4	-0.0016 µg/L	0.05080	-0.0016 ppb	0.05080	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-98.8	-0.0298 µg/L	0.04903	-0.0298 ppb	0.04903	164.68%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-64.8	-3.8990 µg/L	1.48915	-3.8990 ppb	1.48915	38.19%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	0.7	0.0047 µg/L	0.10969	0.0047 ppb	0.10969	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	4.9	0.0664 µg/L	0.03989	0.0664 ppb	0.03989	60.04%

Cr	267.716†	-23.4	-0.1963 µg/L	0.13125	-0.1963 ppb	0.13125	66.87%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cu	324.752†	72.6	0.3060 µg/L	0.39613	0.3060 ppb	0.39613	129.44%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	29.6	1.9896 µg/L	0.49762	1.9896 ppb	0.49762	25.01%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	195.2	80.347 µg/L	7.2297	80.347 ppb	7.2297	9.00%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-0.1	-0.0228 µg/L	5.77268	-0.0228 ppb	5.77268	>999.9%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	82.5	0.1103 µg/L	0.02354	0.1103 ppb	0.02354	21.35%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	8.7	0.2775 µg/L	0.29646	0.2775 ppb	0.29646	106.82%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	168.8	25.563 µg/L	14.2178	25.563 ppb	14.2178	55.62%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-2.4	-0.0297 µg/L	0.24443	-0.0297 ppb	0.24443	822.71%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-23.6	-5.6348 µg/L	4.43796	-5.6348 ppb	4.43796	78.76%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-29.3	-1.7945 µg/L	0.31809	-1.7945 ppb	0.31809	17.73%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	1.9	1.5925 µg/L	6.05244	1.5925 ppb	6.05244	380.05%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	2.1	0.2838 µg/L	0.54341	0.2838 ppb	0.54341	191.48%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	1.7	0.698 µg/L	2.7434	0.698 ppb	2.7434	393.13%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		-1.9	-0.2152 µg/L	1.57055	-0.2152 ppb	1.57055	729.96%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	-100.8	-1.6363 µg/L	0.76037	-1.6363 ppb	0.76037	46.47%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	2.7	0.1850 µg/L	0.39414	0.1850 ppb	0.39414	213.03%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-12.5	-0.0288 µg/L	0.11780	-0.0288 ppb	0.11780	408.90%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	86.1	0.0864 µg/L	0.08836	0.0864 ppb	0.08836	102.31%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	12.7	1.7048 µg/L	0.54419	1.7048 ppb	0.54419	31.92%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-6.4	-0.3781 µg/L	11.42697	-0.3781 ppb	11.42697	>999.9%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	68.0	0.3625 µg/L	0.40932	0.3625 ppb	0.40932	112.92%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	66.0	0.4094 µg/L	0.13019	0.4094 ppb	0.13019	31.80%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 124

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/30/2010 21:37:49

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	155735.7	155735.7	105 %		21:38:23
1	Al 396.153Radial†	26455.5	25175.3	5164.1 µg/L	5164.1 ppb	21:38:23
1	Ca 317.933Radial†	89784.1	84528.3	5085.9 µg/L	5085.9 ppb	21:38:23
1	Fe 238.204 Radial†	79588.2	75407.3	5074.1 µg/L	5074.1 ppb	21:38:23
1	K 766.490 Radial†	14482.6	12434.6	5113.4 µg/L	5113.4 ppb	21:38:23
1	Mg 279.077 IEC†	13566.6	12709.1	5221.7 µg/L	5221.7 ppb	21:38:23
1	Na 589.592 Radial†	71159.0	66340.0	10069 µg/L	10069 ppb	21:38:23
1	Sr 421.552†	233554.7	221920.1	511.90 µg/L	511.90 ppb	21:38:21
1	Sc 361.383	1774505.8	1774505.8	101.11 %		21:38:36
1	Y 371.029	1058192.5	1058192.5	99.450 %		21:38:36
1	Ag 328.068†	130627.3	125750.0	506.13 µg/L	506.13 ppb	21:38:36
1	As 188.979†	1530.1	1531.1	541.56 µg/L	541.56 ppb	21:38:56
1	B 249.677†	34306.6	30700.6	498.78 µg/L	498.78 ppb	21:38:36
1	Ba 233.527†	117582.7	116457.5	507.49 µg/L	507.49 ppb	21:38:36
1	Be 313.107†	1725175.2	1707072.4	512.44 µg/L	512.44 ppb	21:38:36
1	Cd 226.502†	74496.9	73791.3	506.36 µg/L	506.36 ppb	21:38:36
1	Co 228.616†	37908.7	37666.1	509.70 µg/L	509.70 ppb	21:38:36
1	Cr 267.716†	60512.5	59671.4	502.67 µg/L	502.67 ppb	21:38:36
1	Cu 324.752†	123549.7	119408.0	504.71 µg/L	504.71 ppb	21:38:36
1	Mn 257.610†	383802.8	379425.1	506.93 µg/L	506.93 ppb	21:38:36
1	Mo 202.031†	16253.5	16110.3	512.92 µg/L	512.92 ppb	21:38:56
1	Ni 231.604†	40678.4	40310.9	507.02 µg/L	507.02 ppb	21:38:36
1	P 214.914†	10958.5	10833.5	2575.4 µg/L	2575.4 ppb	21:38:56
1	Pb 220.353†	8590.9	8399.9	515.97 µg/L	515.97 ppb	21:38:56
1	S 181.975 Axial†	1363.8	1261.2	1038.1 µg/L	1038.1 ppb	21:38:56
1	Sb 206.836†	4031.9	3909.6	513.95 µg/L	513.95 ppb	21:38:56
1	Se 196.026†	1318.0	1290.0	519 µg/L	519 ppb	21:38:56
1	SiO2†	52866.2	50534.2	5384.3 µg/L	5384.3 ppb	21:38:36
1	Si 251.611†	159054.7	156364.6	2520.7 µg/L	2520.7 ppb	21:38:36
1	Sn 189.927†	7536.9	7456.9	517.95 µg/L	517.95 ppb	21:38:56
1	Ti 334.940†	510712.3	504235.1	504.52 µg/L	504.52 ppb	21:38:36
1	Tl 190.801†	3764.0	3839.8	523.61 µg/L	523.61 ppb	21:38:56
1	U 409.014†	6927.0	7135.0	477.59 µg/L	477.59 ppb	21:38:36
1	V 292.402†	95996.0	94635.1	509.20 µg/L	509.20 ppb	21:38:36
1	Zn 213.857†	83459.4	82021.0	504.72 µg/L	504.72 ppb	21:38:36
2	Sc RADIAL	155041.9	155041.9	105 %		21:38:27
2	Al 396.153Radial†	26439.8	25272.8	5184.4 µg/L	5184.4 ppb	21:38:27
2	Ca 317.933Radial†	89541.1	84677.9	5094.9 µg/L	5094.9 ppb	21:38:27
2	Fe 238.204 Radial†	79278.2	75449.7	5076.9 µg/L	5076.9 ppb	21:38:27
2	K 766.490 Radial†	14371.1	12389.8	5095.0 µg/L	5095.0 ppb	21:38:27
2	Mg 279.077 IEC†	13629.4	12826.7	5269.8 µg/L	5269.8 ppb	21:38:27
2	Na 589.592 Radial†	70921.4	66415.8	10081 µg/L	10081 ppb	21:38:27
2	Sr 421.552†	231205.0	220671.8	509.02 µg/L	509.02 ppb	21:38:25
2	Sc 361.383	1782336.8	1782336.8	101.55 %		21:38:59
2	Y 371.029	1062229.9	1062229.9	99.829 %		21:38:59
2	Ag 328.068†	131409.1	125952.2	506.96 µg/L	506.96 ppb	21:38:59
2	As 188.979†	1515.6	1510.1	534.25 µg/L	534.25 ppb	21:39:19
2	B 249.677†	34746.5	30984.7	503.41 µg/L	503.41 ppb	21:38:59
2	Ba 233.527†	118240.5	116594.2	508.08 µg/L	508.08 ppb	21:38:59
2	Be 313.107†	1734884.9	1709136.7	513.07 µg/L	513.07 ppb	21:38:59
2	Cd 226.502†	74952.3	73916.0	507.21 µg/L	507.21 ppb	21:38:59
2	Co 228.616†	38256.0	37843.3	512.09 µg/L	512.09 ppb	21:38:59
2	Cr 267.716†	60885.4	59775.6	503.53 µg/L	503.53 ppb	21:38:59
2	Cu 324.752†	123997.9	119312.5	504.33 µg/L	504.33 ppb	21:38:59
2	Mn 257.610†	385847.6	379770.8	507.39 µg/L	507.39 ppb	21:38:59
2	Mo 202.031†	16207.6	15994.5	509.23 µg/L	509.23 ppb	21:39:19
2	Ni 231.604†	40972.6	40423.8	508.44 µg/L	508.44 ppb	21:38:59
2	P 214.914†	10934.2	10762.0	2558.4 µg/L	2558.4 ppb	21:39:19
2	Pb 220.353†	8605.8	8377.2	514.57 µg/L	514.57 ppb	21:39:19

2	S 181.975 Axial†	1353.8	1245.4	1025.2 µg/L	1025.2 ppb	21:39:19
2	Sb 206.836†	4039.9	3900.0	512.61 µg/L	512.61 ppb	21:39:19
2	Se 196.026†	1294.9	1261.6	507 µg/L	507 ppb	21:39:19
2	SiO2†	53037.1	50472.8	5377.9 µg/L	5377.9 ppb	21:38:59
2	Si 251.611†	159953.2	156558.2	2523.9 µg/L	2523.9 ppb	21:38:59
2	Sn 189.927†	7521.9	7409.4	514.67 µg/L	514.67 ppb	21:39:19
2	Ti 334.940†	513507.3	504768.0	505.04 µg/L	505.04 ppb	21:38:59
2	Tl 190.801†	3788.2	3847.3	524.61 µg/L	524.61 ppb	21:39:19
2	U 409.014†	7265.3	7438.0	496.58 µg/L	496.58 ppb	21:38:59
2	V 292.402†	96459.1	94674.0	509.39 µg/L	509.39 ppb	21:38:59
2	Zn 213.857†	83907.6	82099.7	505.20 µg/L	505.20 ppb	21:38:59
3	Sc RADIAL	154159.8	154159.8	104 %		21:38:31
3	Al 396.153Radial†	26383.6	25363.1	5203.0 µg/L	5203.0 ppb	21:38:31
3	Ca 317.933Radial†	88957.8	84607.2	5090.6 µg/L	5090.6 ppb	21:38:31
3	Fe 238.204 Radial†	79038.6	75652.5	5090.6 µg/L	5090.6 ppb	21:38:31
3	K 766.490 Radial†	14471.9	12564.8	5167.0 µg/L	5167.0 ppb	21:38:31
3	Mg 279.077 IEC†	13429.6	12709.4	5221.7 µg/L	5221.7 ppb	21:38:31
3	Na 589.592 Radial†	70531.1	66428.3	10082 µg/L	10082 ppb	21:38:31
3	Sr 421.552†	234744.2	225327.0	519.76 µg/L	519.76 ppb	21:38:29
3	Sc 361.383	1781093.9	1781093.9	101.48 %		21:39:22
3	Y 371.029	1062049.8	1062049.8	99.813 %		21:39:22
3	Ag 328.068†	131409.2	126042.6	507.32 µg/L	507.32 ppb	21:39:22
3	As 188.979†	1511.6	1507.2	533.24 µg/L	533.24 ppb	21:39:42
3	B 249.677†	34741.3	31003.5	503.72 µg/L	503.72 ppb	21:39:22
3	Ba 233.527†	117890.9	116331.0	506.94 µg/L	506.94 ppb	21:39:22
3	Be 313.107†	1732769.0	1708243.9	512.80 µg/L	512.80 ppb	21:39:22
3	Cd 226.502†	74929.0	73944.5	507.41 µg/L	507.41 ppb	21:39:22
3	Co 228.616†	38060.0	37676.5	509.84 µg/L	509.84 ppb	21:39:22
3	Cr 267.716†	60819.3	59752.4	503.33 µg/L	503.33 ppb	21:39:22
3	Cu 324.752†	124074.4	119473.1	505.01 µg/L	505.01 ppb	21:39:22
3	Mn 257.610†	385191.5	379389.4	506.88 µg/L	506.88 ppb	21:39:22
3	Mo 202.031†	16174.4	15972.9	508.55 µg/L	508.55 ppb	21:39:42
3	Ni 231.604†	40856.7	40337.8	507.36 µg/L	507.36 ppb	21:39:22
3	P 214.914†	10914.7	10750.3	2555.5 µg/L	2555.5 ppb	21:39:42
3	Pb 220.353†	8564.4	8342.3	512.42 µg/L	512.42 ppb	21:39:42
3	S 181.975 Axial†	1337.8	1230.6	1013.0 µg/L	1013.0 ppb	21:39:42
3	Sb 206.836†	4017.7	3880.9	510.10 µg/L	510.10 ppb	21:39:42
3	Se 196.026†	1323.8	1290.9	519 µg/L	519 ppb	21:39:42
3	SiO2†	53114.6	50585.6	5390.0 µg/L	5390.0 ppb	21:39:22
3	Si 251.611†	160007.2	156721.3	2526.6 µg/L	2526.6 ppb	21:39:22
3	Sn 189.927†	7519.2	7411.9	514.84 µg/L	514.84 ppb	21:39:42
3	Ti 334.940†	512393.0	504022.8	504.29 µg/L	504.29 ppb	21:39:22
3	Tl 190.801†	3733.3	3795.8	517.69 µg/L	517.69 ppb	21:39:42
3	U 409.014†	7355.4	7531.7	502.41 µg/L	502.41 ppb	21:39:22
3	V 292.402†	96255.9	94540.0	508.67 µg/L	508.67 ppb	21:39:22
3	Zn 213.857†	83891.6	82141.6	505.47 µg/L	505.47 ppb	21:39:22

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1779312.2	101.38 %	0.240			0.24%
Sc RADIAL	154979.1	105 %	0.5			0.51%
Y 371.029	1060824.1	99.697 %	0.2144			0.22%
Ag 328.068†	125914.9	506.80 µg/L	0.609	506.80 ppb	0.609	0.12%
QC value within limits for Ag 328.068 Recovery = 101.36%						
Al 396.153Radial†	25270.4	5183.8 µg/L	19.45	5183.8 ppb	19.45	0.38%
QC value within limits for Al 396.153Radial Recovery = 103.68%						
As 188.979†	1516.1	536.35 µg/L	4.542	536.35 ppb	4.542	0.85%
QC value within limits for As 188.979 Recovery = 107.27%						
B 249.677†	30896.3	501.97 µg/L	2.765	501.97 ppb	2.765	0.55%
QC value within limits for B 249.677 Recovery = 100.39%						
Ba 233.527†	116460.9	507.50 µg/L	0.574	507.50 ppb	0.574	0.11%
QC value within limits for Ba 233.527 Recovery = 101.50%						
Be 313.107†	1708151.0	512.77 µg/L	0.314	512.77 ppb	0.314	0.06%
QC value within limits for Be 313.107 Recovery = 102.55%						
Ca 317.933Radial†	84604.5	5090.4 µg/L	4.50	5090.4 ppb	4.50	0.09%
QC value within limits for Ca 317.933Radial Recovery = 101.81%						
Cd 226.502†	73883.9	506.99 µg/L	0.559	506.99 ppb	0.559	0.11%
QC value within limits for Cd 226.502 Recovery = 101.40%						
Co 228.616†	37728.6	510.54 µg/L	1.345	510.54 ppb	1.345	0.26%

Cr	267.716†	59733.1	503.18 µg/L	0.451	503.18 ppb	0.451	0.09%
QC value within limits for Co 228.616 Recovery = 102.11%							
Cu	324.752†	119397.9	504.68 µg/L	0.341	504.68 ppb	0.341	0.07%
QC value within limits for Cr 267.716 Recovery = 100.64%							
Fe	238.204 Radial†	75503.2	5080.5 µg/L	8.82	5080.5 ppb	8.82	0.17%
QC value within limits for Cu 324.752 Recovery = 100.94%							
K	766.490 Radial†	12463.1	5125.2 µg/L	37.42	5125.2 ppb	37.42	0.73%
QC value within limits for Fe 238.204 Radial Recovery = 101.61%							
Mg	279.077 IEC†	12748.4	5237.7 µg/L	27.78	5237.7 ppb	27.78	0.53%
QC value within limits for K 766.490 Radial Recovery = 102.50%							
Mn	257.610†	379528.4	507.06 µg/L	0.280	507.06 ppb	0.280	0.06%
QC value within limits for Mg 279.077 IEC Recovery = 104.75%							
Mo	202.031†	16025.9	510.23 µg/L	2.350	510.23 ppb	2.350	0.46%
QC value within limits for Mn 257.610 Recovery = 101.41%							
Na	589.592 Radial†	66394.7	10077 µg/L	7.2	10077 ppb	7.2	0.07%
QC value within limits for Mo 202.031 Recovery = 102.05%							
Ni	231.604†	40357.5	507.61 µg/L	0.742	507.61 ppb	0.742	0.15%
QC value within limits for Na 589.592 Radial Recovery = 100.77%							
P	214.914†	10781.9	2563.1 µg/L	10.74	2563.1 ppb	10.74	0.42%
QC value within limits for Ni 231.604 Recovery = 101.52%							
Pb	220.353†	8373.1	514.32 µg/L	1.790	514.32 ppb	1.790	0.35%
QC value within limits for P 214.914 Recovery = 102.52%							
S	181.975 Axial†	1245.7	1025.4 µg/L	12.55	1025.4 ppb	12.55	1.22%
QC value within limits for Pb 220.353 Recovery = 102.86%							
Sb	206.836†	3896.8	512.22 µg/L	1.954	512.22 ppb	1.954	0.38%
QC value within limits for S 181.975 Axial Recovery = 102.54%							
Se	196.026†	1280.8	515 µg/L	6.7	515 ppb	6.7	1.30%
QC value within limits for Sb 206.836 Recovery = 102.44%							
SiO2†		50530.9	5384.1 µg/L	6.05	5384.1 ppb	6.05	0.11%
QC value within limits for Se 196.026 Recovery = 102.98%							
Si	251.611†	156548.1	2523.7 µg/L	2.93	2523.7 ppb	2.93	0.12%
QC value within limits for SiO2 Recovery = 100.68%							
Sn	189.927†	7426.1	515.82 µg/L	1.848	515.82 ppb	1.848	0.36%
QC value within limits for Si 251.611 Recovery = 100.95%							
Sr	421.552†	222639.6	513.56 µg/L	5.558	513.56 ppb	5.558	1.08%
QC value within limits for Sn 189.927 Recovery = 103.16%							
Ti	334.940†	504342.0	504.62 µg/L	0.382	504.62 ppb	0.382	0.08%
QC value within limits for Sr 421.552 Recovery = 102.71%							
Tl	190.801†	3827.7	521.97 µg/L	3.742	521.97 ppb	3.742	0.72%
QC value within limits for Ti 334.940 Recovery = 100.92%							
U	409.014†	7368.2	492.19 µg/L	12.978	492.19 ppb	12.978	2.64%
QC value within limits for Tl 190.801 Recovery = 104.39%							
V	292.402†	94616.4	509.09 µg/L	0.372	509.09 ppb	0.372	0.07%
QC value within limits for U 409.014 Recovery = 98.44%							
Zn	213.857†	82087.5	505.13 µg/L	0.377	505.13 ppb	0.377	0.07%
QC value within limits for V 292.402 Recovery = 101.82%							
QC value within limits for Zn 213.857 Recovery = 101.03%							

All analyte(s) passed QC.



Sequence No.: 125

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/30/2010 21:39:51

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	156639.7	156639.7	106 %		21:40:20
1	Al 396.153Radial†	-58.5	7.7	1.5743 µg/L	1.5743 ppb	21:40:40
1	Ca 317.933Radial†	759.4	18.7	1.1262 µg/L	1.1262 ppb	21:40:40
1	Fe 238.204 Radial†	194.7	43.1	2.8986 µg/L	2.8986 ppb	21:40:40
1	K 766.490 Radial†	1490.5	93.8	38.618 µg/L	38.618 ppb	21:40:20
1	Mg 279.077 IEC†	190.8	11.2	4.6159 µg/L	4.6159 ppb	21:40:40
1	Na 589.592 Radial†	1311.9	31.5	4.7498 µg/L	4.7498 ppb	21:40:20
1	Sr 421.552†	-198.8	34.0	0.0784 µg/L	0.0784 ppb	21:40:20
1	Sc 361.383	1802513.8	1802513.8	102.70 %		21:41:28
1	Y 371.029	1087508.1	1087508.1	102.21 %		21:41:28
1	Ag 328.068†	3555.0	14.3	0.0735 µg/L	0.0735 ppb	21:41:30
1	As 188.979†	-17.5	0.6	0.2149 µg/L	0.2149 ppb	21:41:50
1	B 249.677†	3344.4	26.0	0.4240 µg/L	0.4240 ppb	21:41:50
1	Ba 233.527†	-131.2	34.4	0.1496 µg/L	0.1496 ppb	21:41:50
1	Be 313.107†	-1013.8	-201.5	-0.0559 µg/L	-0.0559 ppb	21:41:30
1	Cd 226.502†	-76.9	35.2	0.2413 µg/L	0.2413 ppb	21:41:50
1	Co 228.616†	-176.5	0.6	0.0084 µg/L	0.0084 ppb	21:41:50
1	Cr 267.716†	162.0	-20.8	-0.1878 µg/L	-0.1878 ppb	21:41:50
1	Cu 324.752†	2902.6	37.3	0.1702 µg/L	0.1702 ppb	21:41:30
1	Mn 257.610†	251.1	68.9	0.0920 µg/L	0.0920 ppb	21:41:50
1	Mo 202.031†	-30.4	5.2	0.1640 µg/L	0.1640 ppb	21:41:50
1	Ni 231.604†	-85.9	-5.7	-0.0718 µg/L	-0.0718 ppb	21:41:50
1	P 214.914†	8.1	2.9	0.6926 µg/L	0.6926 ppb	21:41:50
1	Pb 220.353†	80.9	-18.2	-1.1250 µg/L	-1.1250 ppb	21:41:50
1	S 181.975 Axial†	99.3	9.0	7.3721 µg/L	7.3721 ppb	21:41:50
1	Sb 206.836†	74.8	-5.2	-0.6785 µg/L	-0.6785 ppb	21:41:50
1	Se 196.026†	11.2	-2.7	-1.06 µg/L	-1.06 ppb	21:41:50
1	SiO2†	1816.5	15.5	1.6465 µg/L	1.6465 ppb	21:41:50
1	Si 251.611†	956.9	-16.9	-0.2814 µg/L	-0.2814 ppb	21:41:30
1	Sn 189.927†	10.0	12.3	0.8523 µg/L	0.8523 ppb	21:41:50
1	Ti 334.940†	1083.5	169.4	0.1631 µg/L	0.1631 ppb	21:41:30
1	Tl 190.801†	-120.6	-0.3	-0.0456 µg/L	-0.0456 ppb	21:41:50
1	U 409.014†	-40.8	244.0	15.274 µg/L	15.274 ppb	21:41:30
1	V 292.402†	284.0	-33.3	-0.1660 µg/L	-0.1660 ppb	21:41:30
1	Zn 213.857†	618.4	77.6	0.4813 µg/L	0.4813 ppb	21:41:50
2	Sc RADIAL	154442.3	154442.3	104 %		21:40:42
2	Al 396.153Radial†	-52.6	12.5	2.5703 µg/L	2.5703 ppb	21:41:02
2	Ca 317.933Radial†	769.8	38.8	2.3356 µg/L	2.3356 ppb	21:41:02
2	Fe 238.204 Radial†	179.2	30.9	2.0764 µg/L	2.0764 ppb	21:41:02
2	K 766.490 Radial†	1688.5	303.4	124.87 µg/L	124.87 ppb	21:40:42
2	Mg 279.077 IEC†	185.5	8.8	3.6051 µg/L	3.6051 ppb	21:41:02
2	Na 589.592 Radial†	1499.9	229.0	34.668 µg/L	34.668 ppb	21:40:42
2	Sr 421.552†	-72.3	152.5	0.3517 µg/L	0.3517 ppb	21:40:42
2	Sc 361.383	1820695.7	1820695.7	103.74 %		21:41:52
2	Y 371.029	1097572.0	1097572.0	103.15 %		21:41:52
2	Ag 328.068†	3794.3	210.4	0.8494 µg/L	0.8494 ppb	21:41:54
2	As 188.979†	-9.3	8.7	3.0329 µg/L	3.0329 ppb	21:42:15
2	B 249.677†	3355.0	3.7	0.0606 µg/L	0.0606 ppb	21:42:15
2	Ba 233.527†	-140.4	26.8	0.1170 µg/L	0.1170 ppb	21:42:15
2	Be 313.107†	-980.0	-159.1	-0.0454 µg/L	-0.0454 ppb	21:41:54
2	Cd 226.502†	-107.8	6.1	0.0414 µg/L	0.0414 ppb	21:42:15
2	Co 228.616†	-176.7	2.1	0.0288 µg/L	0.0288 ppb	21:42:15
2	Cr 267.716†	181.7	-3.4	-0.0350 µg/L	-0.0350 ppb	21:42:15
2	Cu 324.752†	2791.5	-98.1	-0.4063 µg/L	-0.4063 ppb	21:41:54
2	Mn 257.610†	250.8	66.2	0.0883 µg/L	0.0883 ppb	21:42:15
2	Mo 202.031†	-27.8	7.9	0.2520 µg/L	0.2520 ppb	21:42:15
2	Ni 231.604†	-83.9	-3.0	-0.0373 µg/L	-0.0373 ppb	21:42:15
2	P 214.914†	-20.6	-24.9	-5.9289 µg/L	-5.9289 ppb	21:42:15
2	Pb 220.353†	110.2	9.3	0.5644 µg/L	0.5644 ppb	21:42:15

2	S 181.975 Axial†	95.9	4.8	3.9289 µg/L	3.9289 ppb	21:42:15
2	Sb 206.836†	84.9	3.7	0.4967 µg/L	0.4967 ppb	21:42:15
2	Se 196.026†	21.6	7.2	2.89 µg/L	2.89 ppb	21:42:15
2	SiO2†	1786.9	-30.6	-3.2933 µg/L	-3.2933 ppb	21:42:15
2	Si 251.611†	920.4	-61.4	-1.0032 µg/L	-1.0032 ppb	21:41:54
2	Sn 189.927†	9.7	11.9	0.8219 µg/L	0.8219 ppb	21:42:15
2	Ti 334.940†	1029.8	107.2	0.1039 µg/L	0.1039 ppb	21:41:54
2	Tl 190.801†	-110.9	10.2	1.3683 µg/L	1.3683 ppb	21:42:15
2	U 409.014†	-164.2	125.5	7.8759 µg/L	7.8759 ppb	21:41:54
2	V 292.402†	377.1	53.7	0.2925 µg/L	0.2925 ppb	21:41:54
2	Zn 213.857†	598.4	52.3	0.3246 µg/L	0.3246 ppb	21:42:15
3	Sc RADIAL	153682.3	153682.3	104 %		21:41:04
3	Al 396.153Radial†	-46.3	18.3	3.7304 µg/L	3.7304 ppb	21:41:24
3	Ca 317.933Radial†	784.4	56.6	3.4031 µg/L	3.4031 ppb	21:41:24
3	Fe 238.204 Radial†	185.0	37.2	2.5062 µg/L	2.5062 ppb	21:41:24
3	K 766.490 Radial†	1677.2	300.5	123.67 µg/L	123.67 ppb	21:41:04
3	Mg 279.077 IEC†	179.8	4.2	1.7326 µg/L	1.7326 ppb	21:41:24
3	Na 589.592 Radial†	1394.0	134.3	20.284 µg/L	20.284 ppb	21:41:04
3	Sr 421.552†	-217.5	12.4	0.0286 µg/L	0.0286 ppb	21:41:04
3	Sc 361.383	1802159.9	1802159.9	102.68 %		21:42:17
3	Y 371.029	1086924.1	1086924.1	102.15 %		21:42:17
3	Ag 328.068†	3659.8	117.1	0.4739 µg/L	0.4739 ppb	21:42:19
3	As 188.979†	-13.8	4.2	1.4795 µg/L	1.4795 ppb	21:42:39
3	B 249.677†	3323.9	6.7	0.1078 µg/L	0.1078 ppb	21:42:39
3	Ba 233.527†	-184.0	-17.1	-0.0741 µg/L	-0.0741 ppb	21:42:39
3	Be 313.107†	-772.4	33.4	0.0119 µg/L	0.0119 ppb	21:42:19
3	Cd 226.502†	-83.4	28.8	0.1976 µg/L	0.1976 ppb	21:42:39
3	Co 228.616†	-141.3	34.9	0.4711 µg/L	0.4711 ppb	21:42:39
3	Cr 267.716†	153.9	-28.7	-0.2464 µg/L	-0.2464 ppb	21:42:39
3	Cu 324.752†	2875.3	11.3	0.0532 µg/L	0.0532 ppb	21:42:19
3	Mn 257.610†	229.4	47.8	0.0638 µg/L	0.0638 ppb	21:42:39
3	Mo 202.031†	-8.4	26.5	0.8446 µg/L	0.8446 ppb	21:42:39
3	Ni 231.604†	-73.6	6.2	0.0781 µg/L	0.0781 ppb	21:42:39
3	P 214.914†	-10.6	-15.3	-3.6491 µg/L	-3.6491 ppb	21:42:39
3	Pb 220.353†	101.2	1.6	0.0954 µg/L	0.0954 ppb	21:42:39
3	S 181.975 Axial†	89.8	-0.3	-0.2028 µg/L	-0.2028 ppb	21:42:39
3	Sb 206.836†	70.2	-9.8	-1.2620 µg/L	-1.2620 ppb	21:42:39
3	Se 196.026†	7.0	-6.7	-2.68 µg/L	-2.68 ppb	21:42:39
3	SiO2†	1769.9	-29.5	-3.1976 µg/L	-3.1976 ppb	21:42:39
3	Si 251.611†	828.7	-141.6	-2.3098 µg/L	-2.3098 ppb	21:42:19
3	Sn 189.927†	11.8	14.0	0.9698 µg/L	0.9698 ppb	21:42:39
3	Ti 334.940†	874.2	-34.2	-0.0367 µg/L	-0.0367 ppb	21:42:19
3	Tl 190.801†	-111.1	8.9	1.1939 µg/L	1.1939 ppb	21:42:39
3	U 409.014†	-191.5	97.3	6.0989 µg/L	6.0989 ppb	21:42:19
3	V 292.402†	334.2	15.6	0.0944 µg/L	0.0944 ppb	21:42:19
3	Zn 213.857†	588.3	48.4	0.2995 µg/L	0.2995 ppb	21:42:39

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1808456.5	103.04 %	0.604			0.59%
Sc RADIAL	154921.4	105 %	1.0			0.99%
Y 371.029	1090668.1	102.50 %	0.563			0.55%
Ag 328.068†	113.9	0.4656 µg/L	0.38802	0.4656 ppb	0.38802	83.34%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	12.8	2.6250 µg/L	1.07912	2.6250 ppb	1.07912	41.11%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	4.5	1.5757 µg/L	1.41147	1.5757 ppb	1.41147	89.58%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	12.1	0.1975 µg/L	0.19759	0.1975 ppb	0.19759	100.06%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	14.7	0.0642 µg/L	0.12083	0.0642 ppb	0.12083	188.35%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-109.1	-0.0298 µg/L	0.03646	-0.0298 ppb	0.03646	122.38%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	38.0	2.2883 µg/L	1.13918	2.2883 ppb	1.13918	49.78%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	23.4	0.1601 µg/L	0.10506	0.1601 ppb	0.10506	65.62%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	12.5	0.1694 µg/L	0.26142	0.1694 ppb	0.26142	154.29%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-17.7 -0.1564 µg/L	0.10911 -0.1564 ppb	0.10911 69.77%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-16.5 -0.0610 µg/L	0.30473 -0.0610 ppb	0.30473 499.81%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	37.1 2.4938 µg/L	0.41124 2.4938 ppb	0.41124 16.49%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	232.6 95.721 µg/L	49.4567 95.721 ppb	49.4567 51.67%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	8.1 3.3179 µg/L	1.46292 3.3179 ppb	1.46292 44.09%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	61.0 0.0814 µg/L	0.01529 0.0814 ppb	0.01529 18.79%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	13.2 0.4202 µg/L	0.37018 0.4202 ppb	0.37018 88.09%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	131.6 19.901 µg/L	14.9630 19.901 ppb	14.9630 75.19%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-0.8 -0.0103 µg/L	0.07850 -0.0103 ppb	0.07850 759.31%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	-12.4 -2.9618 µg/L	3.36384 -2.9618 ppb	3.36384 113.57%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-2.4 -0.1551 µg/L	0.87212 -0.1551 ppb	0.87212 562.37%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	4.5 3.6994 µg/L	3.79266 3.6994 ppb	3.79266 102.52%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	-3.7 -0.4813 µg/L	0.89576 -0.4813 ppb	0.89576 186.12%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	-0.7 -0.283 µg/L	2.8667 -0.283 ppb	2.8667 >999.9%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	-14.9 -1.6148 µg/L	2.82478 -1.6148 ppb	2.82478 174.93%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	-73.3 -1.1981 µg/L	1.02817 -1.1981 ppb	1.02817 85.81%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	12.7 0.8813 µg/L	0.07810 0.8813 ppb	0.07810 8.86%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	66.3 0.1529 µg/L	0.17395 0.1529 ppb	0.17395 113.77%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	80.8 0.0768 µg/L	0.10266 0.0768 ppb	0.10266 133.71%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	6.2 0.8389 µg/L	0.77090 0.8389 ppb	0.77090 91.90%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	155.6 9.7495 µg/L	4.86586 9.7495 ppb	4.86586 49.91%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	12.0 0.0736 µg/L	0.22999 0.0736 ppb	0.22999 312.44%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	59.4 0.3685 µg/L	0.09853 0.3685 ppb	0.09853 26.74%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 126

Sample ID: 1202065045|962575|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 312

Date Collected: 3/30/2010 21:42:47

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202065045|962575|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	155504.4	155504.4	105 %		21:43:20
1	Al 396.153Radial†	-27.0	37.2	7.6611 µg/L	7.6611 ppb	21:43:40
1	Ca 317.933Radial†	910.1	167.2	10.059 µg/L	10.059 ppb	21:43:40
1	Fe 238.204 Radial†	926.1	739.7	49.774 µg/L	49.774 ppb	21:43:40
1	K 766.490 Radial†	1667.9	272.7	112.24 µg/L	112.24 ppb	21:43:20
1	Mg 279.077 IEC†	190.9	12.6	5.1458 µg/L	5.1458 ppb	21:43:40
1	Na 589.592 Radial†	1548.7	265.7	40.240 µg/L	40.240 ppb	21:43:20
1	Sr 421.552†	-118.1	109.3	0.2522 µg/L	0.2522 ppb	21:43:20
1	Sc 361.383	1775389.4	1775389.4	101.16 %		21:44:28
1	Y 371.029	1067330.3	1067330.3	100.31 %		21:44:28
1	Ag 328.068†	3835.0	344.0	1.3590 µg/L	1.3590 ppb	21:44:30
1	As 188.979†	-12.4	5.4	1.8987 µg/L	1.8987 ppb	21:44:50
1	B 249.677†	3414.3	144.9	2.3613 µg/L	2.3613 ppb	21:44:50
1	Ba 233.527†	-122.9	40.7	0.1770 µg/L	0.1770 ppb	21:44:50
1	Be 313.107†	-600.4	192.1	0.0538 µg/L	0.0538 ppb	21:44:30
1	Cd 226.502†	-79.7	31.2	0.2095 µg/L	0.2095 ppb	21:44:50
1	Co 228.616†	-158.2	16.0	0.2144 µg/L	0.2144 ppb	21:44:50
1	Cr 267.716†	327.4	145.1	1.2345 µg/L	1.2345 ppb	21:44:50
1	Cu 324.752†	2814.7	-6.5	-0.0303 µg/L	-0.0303 ppb	21:44:30
1	Mn 257.610†	868.7	683.2	0.9128 µg/L	0.9128 ppb	21:44:50
1	Mo 202.031†	-35.2	-0.0	0.0019 µg/L	0.0019 ppb	21:44:50
1	Ni 231.604†	-26.0	52.2	0.6569 µg/L	0.6569 ppb	21:44:50
1	P 214.914†	-0.2	-5.2	-1.2550 µg/L	-1.2550 ppb	21:44:50
1	Pb 220.353†	73.9	-24.0	-1.4578 µg/L	-1.4578 ppb	21:44:50
1	S 181.975 Axial†	104.3	15.4	12.604 µg/L	12.604 ppb	21:44:50
1	Sb 206.836†	82.8	3.8	0.4802 µg/L	0.4802 ppb	21:44:50
1	Se 196.026†	18.2	4.4	1.77 µg/L	1.77 ppb	21:44:50
1	SiO2†	2336.8	556.9	59.571 µg/L	59.571 ppb	21:44:50
1	Si 251.611†	2591.9	1613.6	26.112 µg/L	26.112 ppb	21:44:30
1	Sn 189.927†	11.6	14.0	0.9706 µg/L	0.9706 ppb	21:44:50
1	Ti 334.940†	1254.6	354.6	0.3600 µg/L	0.3600 ppb	21:44:30
1	Tl 190.801†	-108.8	9.5	1.2879 µg/L	1.2879 ppb	21:44:50
1	U 409.014†	-493.9	-204.5	-12.779 µg/L	-12.779 ppb	21:44:30
1	V 292.402†	442.9	128.0	0.6704 µg/L	0.6704 ppb	21:44:30
1	Zn 213.857†	854.7	320.4	1.9778 µg/L	1.9778 ppb	21:44:50
2	Sc RADIAL	153097.6	153097.6	104 %		21:43:42
2	Al 396.153Radial†	-22.5	41.2	8.4892 µg/L	8.4892 ppb	21:44:02
2	Ca 317.933Radial†	922.9	193.2	11.624 µg/L	11.624 ppb	21:44:02
2	Fe 238.204 Radial†	917.8	745.5	50.162 µg/L	50.162 ppb	21:44:02
2	K 766.490 Radial†	1593.5	225.8	92.928 µg/L	92.928 ppb	21:43:42
2	Mg 279.077 IEC†	189.7	14.4	5.8747 µg/L	5.8747 ppb	21:44:02
2	Na 589.592 Radial†	1487.4	229.6	34.784 µg/L	34.784 ppb	21:43:42
2	Sr 421.552†	-207.6	21.2	0.0487 µg/L	0.0487 ppb	21:43:42
2	Sc 361.383	1778838.1	1778838.1	101.35 %		21:44:52
2	Y 371.029	1069781.8	1069781.8	100.54 %		21:44:52
2	Ag 328.068†	3744.4	247.3	0.9880 µg/L	0.9880 ppb	21:44:54
2	As 188.979†	-13.0	4.9	1.7304 µg/L	1.7304 ppb	21:45:14
2	B 249.677†	3361.2	85.9	1.4013 µg/L	1.4013 ppb	21:45:14
2	Ba 233.527†	-118.3	45.5	0.1976 µg/L	0.1976 ppb	21:45:14
2	Be 313.107†	-858.3	-61.2	-0.0183 µg/L	-0.0183 ppb	21:44:54
2	Cd 226.502†	-109.5	2.0	0.0087 µg/L	0.0087 ppb	21:45:14
2	Co 228.616†	-173.5	1.3	0.0153 µg/L	0.0153 ppb	21:45:14
2	Cr 267.716†	335.6	152.6	1.2869 µg/L	1.2869 ppb	21:45:14
2	Cu 324.752†	3084.3	254.1	1.0785 µg/L	1.0785 ppb	21:44:54
2	Mn 257.610†	872.7	685.5	0.9159 µg/L	0.9159 ppb	21:45:14
2	Mo 202.031†	-37.0	-1.7	-0.0528 µg/L	-0.0528 ppb	21:45:14
2	Ni 231.604†	-24.9	53.3	0.6708 µg/L	0.6708 ppb	21:45:14
2	P 214.914†	-4.2	-9.2	-2.2150 µg/L	-2.2150 ppb	21:45:14
2	Pb 220.353†	74.1	-23.9	-1.4630 µg/L	-1.4630 ppb	21:45:14

2	S 181.975 Axial†	102.2	13.1	10.736 µg/L	10.736 ppb	21:45:14
2	Sb 206.836†	71.3	-7.8	-1.0330 µg/L	-1.0330 ppb	21:45:14
2	Se 196.026†	-1.3	-14.8	-5.92 µg/L	-5.92 ppb	21:45:14
2	SiO2†	2321.1	537.0	57.421 µg/L	57.421 ppb	21:45:14
2	Si 251.611†	2643.8	1659.9	26.855 µg/L	26.855 ppb	21:44:54
2	Sn 189.927†	24.8	27.0	1.8687 µg/L	1.8687 ppb	21:45:14
2	Ti 334.940†	1208.1	306.4	0.3063 µg/L	0.3063 ppb	21:44:54
2	Tl 190.801†	-107.8	10.8	1.4556 µg/L	1.4556 ppb	21:45:14
2	U 409.014†	-284.4	3.1	0.2154 µg/L	0.2154 ppb	21:44:54
2	V 292.402†	400.4	85.2	0.4518 µg/L	0.4518 ppb	21:44:54
2	Zn 213.857†	816.0	280.5	1.7295 µg/L	1.7295 ppb	21:45:14
3	Sc RADIAL	153854.2	153854.2	104 %		21:44:04
3	Al 396.153Radial†	-43.4	21.1	4.3368 µg/L	4.3368 ppb	21:44:24
3	Ca 317.933Radial†	914.5	180.7	10.874 µg/L	10.874 ppb	21:44:24
3	Fe 238.204 Radial†	919.7	743.0	49.997 µg/L	49.997 ppb	21:44:24
3	K 766.490 Radial†	1802.8	419.4	172.60 µg/L	172.60 ppb	21:44:04
3	Mg 279.077 IEC†	174.0	-1.6	-0.6882 µg/L	-0.6882 ppb	21:44:24
3	Na 589.592 Radial†	1374.9	114.4	17.218 µg/L	17.218 ppb	21:44:04
3	Sr 421.552†	-121.2	105.2	0.2427 µg/L	0.2427 ppb	21:44:04
3	Sc 361.383	1765733.4	1765733.4	100.61 %		21:45:16
3	Y 371.029	1062137.9	1062137.9	99.821 %		21:45:16
3	Ag 328.068†	3424.1	-43.7	-0.1740 µg/L	-0.1740 ppb	21:45:19
3	As 188.979†	-20.1	-2.3	-0.7720 µg/L	-0.7720 ppb	21:45:39
3	B 249.677†	3388.9	138.1	2.2517 µg/L	2.2517 ppb	21:45:39
3	Ba 233.527†	-134.3	28.6	0.1245 µg/L	0.1245 ppb	21:45:39
3	Be 313.107†	-886.2	-95.3	-0.0302 µg/L	-0.0302 ppb	21:45:19
3	Cd 226.502†	-97.2	13.4	0.0867 µg/L	0.0867 ppb	21:45:39
3	Co 228.616†	-188.2	-14.6	-0.2003 µg/L	-0.2003 ppb	21:45:39
3	Cr 267.716†	338.0	157.4	1.3324 µg/L	1.3324 ppb	21:45:39
3	Cu 324.752†	2867.7	61.5	0.2619 µg/L	0.2619 ppb	21:45:19
3	Mn 257.610†	856.6	675.8	0.9032 µg/L	0.9032 ppb	21:45:39
3	Mo 202.031†	-22.8	12.1	0.3863 µg/L	0.3863 ppb	21:45:39
3	Ni 231.604†	-44.7	33.5	0.4213 µg/L	0.4213 ppb	21:45:39
3	P 214.914†	4.2	-0.8	-0.2161 µg/L	-0.2161 ppb	21:45:39
3	Pb 220.353†	87.0	-10.5	-0.6401 µg/L	-0.6401 ppb	21:45:39
3	S 181.975 Axial†	85.6	-2.6	-2.1598 µg/L	-2.1598 ppb	21:45:39
3	Sb 206.836†	88.2	9.6	1.2517 µg/L	1.2517 ppb	21:45:39
3	Se 196.026†	6.1	-7.5	-3.01 µg/L	-3.01 ppb	21:45:39
3	SiO2†	2371.2	603.7	64.553 µg/L	64.553 ppb	21:45:39
3	Si 251.611†	2680.8	1716.0	27.758 µg/L	27.758 ppb	21:45:19
3	Sn 189.927†	23.0	25.4	1.7596 µg/L	1.7596 ppb	21:45:39
3	Ti 334.940†	1336.7	443.1	0.4459 µg/L	0.4459 ppb	21:45:19
3	Tl 190.801†	-109.0	8.8	1.1902 µg/L	1.1902 ppb	21:45:39
3	U 409.014†	-370.2	-84.2	-5.2473 µg/L	-5.2473 ppb	21:45:19
3	V 292.402†	419.8	107.4	0.5709 µg/L	0.5709 ppb	21:45:19
3	Zn 213.857†	873.5	343.7	2.1238 µg/L	2.1238 ppb	21:45:39

Mean Data: 1202065045|962575|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	1773320.3	101.04	%	0.387				0.38%
Sc RADIAL	154152.1	104	%	0.8				0.80%
Y 371.029	1066416.7	100.22	%	0.367				0.37%
Ag 328.068†	182.6	0.7243	µg/L	0.79976	0.7243	ppb	0.79976	110.42%
Al 396.153Radial†	33.2	6.8290	µg/L	2.19769	6.8290	ppb	2.19769	32.18%
As 188.979†	2.7	0.9524	µg/L	1.49568	0.9524	ppb	1.49568	157.05%
B 249.677†	123.0	2.0048	µg/L	0.52551	2.0048	ppb	0.52551	26.21%
Ba 233.527†	38.3	0.1664	µg/L	0.03768	0.1664	ppb	0.03768	22.65%
Be 313.107†	11.9	0.0018	µg/L	0.04544	0.0018	ppb	0.04544	>999.9%
Ca 317.933Radial†	180.4	10.853	µg/L	0.7826	10.853	ppb	0.7826	7.21%
Cd 226.502†	15.5	0.1016	µg/L	0.10123	0.1016	ppb	0.10123	99.62%
Co 228.616†	0.9	0.0098	µg/L	0.20736	0.0098	ppb	0.20736	>999.9%
Cr 267.716†	151.7	1.2846	µg/L	0.04896	1.2846	ppb	0.04896	3.81%
Cu 324.752†	103.1	0.4367	µg/L	0.57471	0.4367	ppb	0.57471	131.60%
Fe 238.204 Radial†	742.7	49.978	µg/L	0.1951	49.978	ppb	0.1951	0.39%
K 766.490 Radial†	306.0	125.92	µg/L	41.564	125.92	ppb	41.564	33.01%
Mg 279.077 IEC†	8.5	3.4441	µg/L	3.59720	3.4441	ppb	3.59720	104.45%
Mn 257.610†	681.5	0.9106	µg/L	0.00663	0.9106	ppb	0.00663	0.73%
Mo 202.031†	3.4	0.1118	µg/L	0.23928	0.1118	ppb	0.23928	214.04%
Na 589.592 Radial†	203.2	30.747	µg/L	12.0302	30.747	ppb	12.0302	39.13%

Ni 231.604†	46.4	0.5830 µg/L	0.14020	0.5830 ppb	0.14020	24.05%
P 214.914†	-5.0	-1.2287 µg/L	0.99967	-1.2287 ppb	0.99967	81.36%
Pb 220.353†	-19.5	-1.1870 µg/L	0.47360	-1.1870 ppb	0.47360	39.90%
S 181.975 Axial†	8.6	7.0599 µg/L	8.03900	7.0599 ppb	8.03900	113.87%
Sb 206.836†	1.9	0.2330 µg/L	1.16220	0.2330 ppb	1.16220	498.88%
Se 196.026†	-6.0	-2.39 µg/L	3.882	-2.39 ppb	3.882	162.69%
SiO2†	565.9	60.515 µg/L	3.6587	60.515 ppb	3.6587	6.05%
Si 251.611†	1663.1	26.908 µg/L	0.8246	26.908 ppb	0.8246	3.06%
Sn 189.927†	22.1	1.5329 µg/L	0.49007	1.5329 ppb	0.49007	31.97%
Sr 421.552†	78.6	0.1812 µg/L	0.11480	0.1812 ppb	0.11480	63.36%
Ti 334.940†	368.0	0.3707 µg/L	0.07043	0.3707 ppb	0.07043	19.00%
Tl 190.801†	9.7	1.3112 µg/L	0.13419	1.3112 ppb	0.13419	10.23%
U 409.014†	-95.2	-5.9368 µg/L	6.52438	-5.9368 ppb	6.52438	109.90%
V 292.402†	106.9	0.5644 µg/L	0.10946	0.5644 ppb	0.10946	19.39%
Zn 213.857†	314.9	1.9437 µg/L	0.19934	1.9437 ppb	0.19934	10.26%

Sequence No.: 127

Sample ID: 1202065046|962575|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 313

Date Collected: 3/30/2010 21:45:46

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202065046|962575|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	157055.5	157055.5	106 %		21:46:18
1	Al 396.153Radial†	471633.2	443991.7	91472 µg/L	91472 ppb	21:46:18
1	Ca 317.933Radial†	1778057.6	1672914.1	100660 µg/L	100660 ppb	21:46:16
1	Fe 238.204 Radial†	3017404.2	2840017.1	191100 µg/L	191100 ppb	21:46:16
1	K 766.490 Radial†	108902.2	101192.3	41603 µg/L	41603 ppb	21:46:18
1	Mg 279.077 IEC†	100663.1	94581.2	38647 µg/L	38647 ppb	21:46:18
1	Na 589.592 Radial†	72511.3	67045.3	10144 µg/L	10144 ppb	21:46:18
1	Sr 421.552†	1103550.9	1038948.5	2395.9 µg/L	2395.9 ppb	21:46:16
1	Sc 361.383	1782400.0	1782400.0	101.56 %		21:46:33
1	Y 371.029	1134957.3	1134957.3	106.66 %		21:46:33
1	Ag 328.068†	80193.7	75517.3	309.49 µg/L	309.49 ppb	21:46:33
1	As 188.979†	3146.3	3115.8	1153.2 µg/L	1153.2 ppb	21:46:35
1	B 249.677†	95142.9	90454.1	1471.6 µg/L	1471.6 ppb	21:46:33
1	Ba 233.527†	487153.5	479848.0	2087.8 µg/L	2087.8 ppb	21:46:33
1	Be 313.107†	2695490.9	2654956.9	796.69 µg/L	796.69 ppb	21:46:33
1	Cd 226.502†	90622.4	89343.3	593.97 µg/L	593.97 ppb	21:46:33
1	Co 228.616†	69346.1	68455.5	918.26 µg/L	918.26 ppb	21:46:33
1	Cr 267.716†	277636.6	273202.1	2307.6 µg/L	2307.6 ppb	21:46:33
1	Cu 324.752†	439607.7	430080.0	1841.5 µg/L	1841.5 ppb	21:46:33
1	Mn 257.610†	4166302.4	4102261.0	5481.1 µg/L	5481.1 ppb	21:46:33
1	Mo 202.031†	15403.9	15202.5	492.26 µg/L	492.26 ppb	21:46:35
1	Ni 231.604†	107181.0	105615.9	1328.4 µg/L	1328.4 ppb	21:46:33
1	P 214.914†	33647.1	33126.3	7776.1 µg/L	7776.1 ppb	21:46:35
1	Pb 220.353†	14035.0	13722.9	848.25 µg/L	848.25 ppb	21:46:35
1	S 181.975 Axial†	4757.9	4597.2	3772.6 µg/L	3772.6 ppb	21:46:35
1	Sb 206.836†	9079.1	8861.9	1135.2 µg/L	1135.2 ppb	21:46:35
1	Se 196.026†	7229.3	7104.9	2910 µg/L	2910 ppb	21:46:35
1	SiO2†	851943.3	837130.6	89531 µg/L	89531 ppb	21:46:33
1	Si 251.611†	2619813.9	2578705.7	41726 µg/L	41726 ppb	21:46:33
1	Sn 189.927†	15577.2	15341.0	1081.7 µg/L	1081.7 ppb	21:46:35
1	Ti 334.940†	5889494.3	5798327.8	5807.8 µg/L	5807.8 ppb	21:46:33
1	Tl 190.801†	8638.9	8623.5	1236.0 µg/L	1236.0 ppb	21:46:35
1	U 409.014†	-4657.6	-4302.4	-204.42 µg/L	-204.42 ppb	21:46:33
1	V 292.402†	237439.3	233489.7	1228.8 µg/L	1228.8 ppb	21:46:33
1	Zn 213.857†	958943.0	943718.7	5826.7 µg/L	5826.7 ppb	21:46:33
2	Sc RADIAL	154319.3	154319.3	104 %		21:46:23
2	Al 396.153Radial†	466733.4	447169.1	92126 µg/L	92126 ppb	21:46:23
2	Ca 317.933Radial†	1753400.8	1678968.3	101020 µg/L	101020 ppb	21:46:20
2	Fe 238.204 Radial†	2974945.1	2849701.1	191750 µg/L	191750 ppb	21:46:20
2	K 766.490 Radial†	107766.5	101921.9	41903 µg/L	41903 ppb	21:46:23
2	Mg 279.077 IEC†	99112.4	94775.7	38726 µg/L	38726 ppb	21:46:23
2	Na 589.592 Radial†	71669.1	67448.6	10205 µg/L	10205 ppb	21:46:23
2	Sr 421.552†	1092732.6	1047002.3	2414.5 µg/L	2414.5 ppb	21:46:20
2	Sc 361.383	1780226.7	1780226.7	101.43 %		21:46:39
2	Y 371.029	1133393.6	1133393.6	106.52 %		21:46:39
2	Ag 328.068†	80020.7	75443.3	309.22 µg/L	309.22 ppb	21:46:39
2	As 188.979†	3200.2	3172.7	1173.2 µg/L	1173.2 ppb	21:46:41
2	B 249.677†	95107.5	90533.5	1472.9 µg/L	1472.9 ppb	21:46:39
2	Ba 233.527†	486827.8	480112.5	2089.0 µg/L	2089.0 ppb	21:46:39
2	Be 313.107†	2692808.6	2655552.8	796.87 µg/L	796.87 ppb	21:46:39
2	Cd 226.502†	90149.2	88985.7	591.45 µg/L	591.45 ppb	21:46:39
2	Co 228.616†	69278.3	68472.0	918.45 µg/L	918.45 ppb	21:46:39
2	Cr 267.716†	277231.7	273136.7	2307.1 µg/L	2307.1 ppb	21:46:39
2	Cu 324.752†	439048.9	430057.5	1841.5 µg/L	1841.5 ppb	21:46:39
2	Mn 257.610†	4159661.6	4100722.4	5479.0 µg/L	5479.0 ppb	21:46:39
2	Mo 202.031†	15440.8	15257.4	494.04 µg/L	494.04 ppb	21:46:41
2	Ni 231.604†	107011.2	105577.4	1327.9 µg/L	1327.9 ppb	21:46:39
2	P 214.914†	33982.9	33497.8	7864.5 µg/L	7864.5 ppb	21:46:41
2	Pb 220.353†	14338.5	14039.0	867.62 µg/L	867.62 ppb	21:46:41





Ni 231.604†	105560.9	1327.7 µg/L	0.82	1327.7 ppb	0.82	0.06%
P 214.914†	33433.2	7849.4 µg/L	67.02	7849.4 ppb	67.02	0.85%
Pb 220.353†	13946.0	861.94 µg/L	11.915	861.94 ppb	11.915	1.38%
S 181.975 Axial†	4637.4	3805.6 µg/L	29.92	3805.6 ppb	29.92	0.79%
Sb 206.836†	8952.5	1147.1 µg/L	11.15	1147.1 ppb	11.15	0.97%
Se 196.026†	7186.8	2940 µg/L	31.6	2940 ppb	31.6	1.08%
SiO2†	836585.8	89473 µg/L	51.7	89473 ppb	51.7	0.06%
Si 251.611†	2576522.2	41691 µg/L	31.0	41691 ppb	31.0	0.07%
Sn 189.927†	15487.1	1091.8 µg/L	9.28	1091.8 ppb	9.28	0.85%
Sr 421.552†	1042501.7	2404.1 µg/L	9.48	2404.1 ppb	9.48	0.39%
Ti 334.940†	5801200.0	5810.7 µg/L	2.99	5810.7 ppb	2.99	0.05%
Tl 190.801†	8665.8	1241.7 µg/L	6.43	1241.7 ppb	6.43	0.52%
U 409.014†	-4291.5	-203.70 µg/L	11.390	-203.70 ppb	11.390	5.59%
Concentration less than lower limit for U 409.014.						
V 292.402†	233727.7	1230.1 µg/L	1.11	1230.1 ppb	1.11	0.09%
Zn 213.857†	942611.9	5819.8 µg/L	7.21	5819.8 ppb	7.21	0.12%

Sequence No.: 129

Sample ID: 1202065047|962575|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 315

Date Collected: 3/30/2010 21:48:52

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202065047|962575|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	154380.9	154380.9	104 %		21:49:24
1	Al 396.153Radial†	121332.3	116246.6	23955 µg/L	23955 ppb	21:49:24
1	Ca 317.933Radial†	77413.2	73430.3	4418.1 µg/L	4418.1 ppb	21:49:24
1	Fe 238.204 Radial†	1218150.3	1166318.4	78480 µg/L	78480 ppb	21:49:22
1	K 766.490 Radial†	27662.3	25175.7	10352 µg/L	10352 ppb	21:49:24
1	Mg 279.077 IEC†	10380.6	9771.3	3941.2 µg/L	3941.2 ppb	21:49:24
1	Na 589.592 Radial†	117632.6	111434.4	16912 µg/L	16912 ppb	21:49:24
1	Sr 421.552†	17221.3	16712.2	38.518 µg/L	38.518 ppb	21:49:24
1	Sc 361.383	1796024.4	1796024.4	102.33 %		21:49:37
1	Y 371.029	1297311.4	1297311.4	121.92 %		21:49:37
1	Ag 328.068†	3988.7	450.7	1.1392 µg/L	1.1392 ppb	21:49:37
1	As 188.979†	-7.8	10.1	22.310 µg/L	22.310 ppb	21:49:57
1	B 249.677†	3676.4	362.3	5.8352 µg/L	5.8352 ppb	21:49:37
1	Ba 233.527†	71781.7	70307.3	305.18 µg/L	305.18 ppb	21:49:37
1	Be 313.107†	22461.0	22734.5	6.7203 µg/L	6.7203 ppb	21:49:37
1	Cd 226.502†	1121.8	1206.3	0.0671 µg/L	0.0671 ppb	21:49:57
1	Co 228.616†	1369.8	1511.0	16.663 µg/L	16.663 ppb	21:49:57
1	Cr 267.716†	15021.0	14500.0	124.52 µg/L	124.52 ppb	21:49:57
1	Cu 324.752†	8361.2	5381.6	33.947 µg/L	33.947 ppb	21:49:37
1	Mn 257.610†	1944278.6	1899776.0	2538.9 µg/L	2538.9 ppb	21:49:37
1	Mo 202.031†	179.5	210.2	9.8926 µg/L	9.8926 ppb	21:49:57
1	Ni 231.604†	6277.5	6212.3	78.137 µg/L	78.137 ppb	21:49:57
1	P 214.914†	4532.2	4423.8	1006.8 µg/L	1006.8 ppb	21:49:57
1	Pb 220.353†	827.0	711.2	46.700 µg/L	46.700 ppb	21:49:57
1	S 181.975 Axial†	1379.7	1260.5	1033.3 µg/L	1033.3 ppb	21:49:57
1	Sb 206.836†	81.9	2.0	-2.4808 µg/L	-2.4808 ppb	21:49:57
1	Se 196.026†	-47.6	-60.1	2.85 µg/L	2.85 ppb	21:49:57
1	SiO2†	493536.7	480531.6	51410 µg/L	51410 ppb	21:49:37
1	Si 251.611†	1514423.2	1478947.6	23938 µg/L	23938 ppb	21:49:37
1	Sn 189.927†	-33.0	-29.7	7.9534 µg/L	7.9534 ppb	21:49:57
1	Ti 334.940†	3033411.9	2963368.5	2968.7 µg/L	2968.7 ppb	21:49:37
1	Tl 190.801†	-432.7	-305.8	-4.1605 µg/L	-4.1605 ppb	21:49:57
1	U 409.014†	-5828.7	-5412.0	-335.11 µg/L	-335.11 ppb	21:49:37
1	V 292.402†	17752.0	17037.4	79.790 µg/L	79.790 ppb	21:49:57
1	Zn 213.857†	62922.1	60963.0	371.18 µg/L	371.18 ppb	21:49:37
2	Sc RADIAL	157858.5	157858.5	107 %		21:49:28
2	Al 396.153Radial†	124019.7	116203.7	23946 µg/L	23946 ppb	21:49:28
2	Ca 317.933Radial†	78878.3	73169.2	4402.4 µg/L	4402.4 ppb	21:49:28
2	Fe 238.204 Radial†	1213398.9	1136171.6	76452 µg/L	76452 ppb	21:49:26
2	K 766.490 Radial†	28097.1	24999.3	10280 µg/L	10280 ppb	21:49:28
2	Mg 279.077 IEC†	10671.1	9824.4	3964.7 µg/L	3964.7 ppb	21:49:28
2	Na 589.592 Radial†	119491.2	110693.4	16799 µg/L	16799 ppb	21:49:28
2	Sr 421.552†	17529.2	16637.3	38.345 µg/L	38.345 ppb	21:49:28
2	Sc 361.383	1786091.7	1786091.7	101.77 %		21:50:00
2	Y 371.029	1290612.9	1290612.9	121.29 %		21:50:00
2	Ag 328.068†	3630.4	120.3	-0.1641 µg/L	-0.1641 ppb	21:50:00
2	As 188.979†	-1.9	15.9	23.869 µg/L	23.869 ppb	21:50:20
2	B 249.677†	3652.3	358.5	5.7738 µg/L	5.7738 ppb	21:50:00
2	Ba 233.527†	71599.5	70518.4	306.13 µg/L	306.13 ppb	21:50:00
2	Be 313.107†	22564.8	22958.5	6.7873 µg/L	6.7873 ppb	21:50:00
2	Cd 226.502†	1120.9	1211.4	0.3158 µg/L	0.3158 ppb	21:50:20
2	Co 228.616†	1368.5	1517.1	16.853 µg/L	16.853 ppb	21:50:20
2	Cr 267.716†	15035.6	14596.0	125.26 µg/L	125.26 ppb	21:50:20
2	Cu 324.752†	8283.0	5350.2	33.519 µg/L	33.519 ppb	21:50:00
2	Mn 257.610†	1941160.4	1907277.8	2548.9 µg/L	2548.9 ppb	21:50:00
2	Mo 202.031†	166.3	198.1	9.4303 µg/L	9.4303 ppb	21:50:20
2	Ni 231.604†	6255.2	6224.4	78.289 µg/L	78.289 ppb	21:50:20
2	P 214.914†	4493.4	4410.4	1005.0 µg/L	1005.0 ppb	21:50:20
2	Pb 220.353†	812.2	701.1	46.165 µg/L	46.165 ppb	21:50:20



Ni 231.604†	6225.3	78.301 µg/L	0.1703	78.301 ppb	0.1703	0.22%
P 214.914†	4433.9	1010.0 µg/L	7.23	1010.0 ppb	7.23	0.72%
Pb 220.353†	710.0	46.681 µg/L	0.5072	46.681 ppb	0.5072	1.09%
S 181.975 Axial†	1267.2	1038.9 µg/L	14.70	1038.9 ppb	14.70	1.41%
Sb 206.836†	-2.4	-3.0521 µg/L	0.53709	-3.0521 ppb	0.53709	17.60%
Se 196.026†	-59.4	2.68 µg/L	1.025	2.68 ppb	1.025	38.24%
SiO2†	482338.1	51603 µg/L	170.0	51603 ppb	170.0	0.33%
Si 251.611†	1484195.2	24023 µg/L	76.3	24023 ppb	76.3	0.32%
Sn 189.927†	-26.6	8.2166 µg/L	0.25050	8.2166 ppb	0.25050	3.05%
Sr 421.552†	16642.3	38.357 µg/L	0.1558	38.357 ppb	0.1558	0.41%
Ti 334.940†	2976083.4	2981.4 µg/L	12.67	2981.4 ppb	12.67	0.42%
Tl 190.801†	-302.1	-3.5100 µg/L	0.56498	-3.5100 ppb	0.56498	16.10%
U 409.014†	-5471.1	-338.46 µg/L	5.370	-338.46 ppb	5.370	1.59%
Concentration less than lower limit for U 409.014.						
V 292.402†	17086.6	80.165 µg/L	0.4358	80.165 ppb	0.4358	0.54%
Zn 213.857†	61204.3	372.81 µg/L	1.444	372.81 ppb	1.444	0.39%





Ni 231.604†	46934.9	590.33 µg/L	4.840	590.33 ppb	4.840	0.82%
P 214.914†	12370.6	2880.9 µg/L	28.65	2880.9 ppb	28.65	0.99%
Pb 220.353†	13847.2	856.19 µg/L	6.001	856.19 ppb	6.001	0.70%
S 181.975 Axial†	7323.4	6007.3 µg/L	30.59	6007.3 ppb	30.59	0.51%
Sb 206.836†	3411.8	445.48 µg/L	3.050	445.48 ppb	3.050	0.68%
Se 196.026†	1096.5	482 µg/L	4.6	482 ppb	4.6	0.95%
SiO2†	475188.9	50817 µg/L	27.5	50817 ppb	27.5	0.05%
Si 251.611†	1466528.9	23728 µg/L	12.7	23728 ppb	12.7	0.05%
Sn 189.927†	7624.7	542.99 µg/L	4.668	542.99 ppb	4.668	0.86%
Sr 421.552†	248037.2	572.10 µg/L	1.830	572.10 ppb	1.830	0.32%
Ti 334.940†	4477276.9	4482.4 µg/L	4.14	4482.4 ppb	4.14	0.09%
Tl 190.801†	3104.8	479.43 µg/L	4.177	479.43 ppb	4.177	0.87%
U 409.014†	3005.7	236.50 µg/L	4.428	236.50 ppb	4.428	1.87%
V 292.402†	128923.5	674.93 µg/L	0.498	674.93 ppb	0.498	0.07%
Zn 213.857†	446396.7	2755.2 µg/L	5.10	2755.2 ppb	5.10	0.19%







Ni 231.604†	47878.3	602.20 µg/L	6.056	602.20 ppb	6.056	1.01%
P 214.914†	4629.2	1054.9 µg/L	24.93	1054.9 ppb	24.93	2.36%
Pb 220.353†	8739.6	540.31 µg/L	5.446	540.31 ppb	5.446	1.01%
S 181.975 Axial†	7384.8	6057.7 µg/L	90.21	6057.7 ppb	90.21	1.49%
Sb 206.836†	3532.0	460.49 µg/L	6.720	460.49 ppb	6.720	1.46%
Se 196.026†	1192.1	503 µg/L	3.7	503 ppb	3.7	0.74%
SiO2†	615875.8	65868 µg/L	514.7	65868 ppb	514.7	0.78%
Si 251.611†	1890886.3	30597 µg/L	225.9	30597 ppb	225.9	0.74%
Sn 189.927†	7129.4	504.56 µg/L	8.086	504.56 ppb	8.086	1.60%
Sr 421.552†	230715.9	532.16 µg/L	4.637	532.16 ppb	4.637	0.87%
Ti 334.940†	3250851.1	3256.0 µg/L	21.88	3256.0 ppb	21.88	0.67%
Tl 190.801†	3347.0	491.57 µg/L	4.043	491.57 ppb	4.043	0.82%
U 409.014†	2199.8	171.42 µg/L	2.603	171.42 ppb	2.603	1.52%
V 292.402†	106104.7	560.51 µg/L	3.411	560.51 ppb	3.411	0.61%
Zn 213.857†	135830.8	832.39 µg/L	6.813	832.39 ppb	6.813	0.82%

Sequence No.: 132

Sample ID: 1202065049|962575|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 318

Date Collected: 3/30/2010 21:53:03

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202065049|962575|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	158050.1	158050.1	107 %		21:53:33
1	Al 396.153Radial†	21255.0	19943.4	4109.7 µg/L	4109.7 ppb	21:53:35
1	Ca 317.933Radial†	11212.3	9789.3	589.00 µg/L	589.00 ppb	21:53:35
1	Fe 238.204 Radial†	220500.5	206101.3	13868 µg/L	13868 ppb	21:53:33
1	K 766.490 Radial†	6639.0	4896.9	2013.8 µg/L	2013.8 ppb	21:53:35
1	Mg 279.077 IEC†	2009.5	1710.8	689.94 µg/L	689.94 ppb	21:53:35
1	Na 589.592 Radial†	23944.6	21189.6	3215.8 µg/L	3215.8 ppb	21:53:35
1	Sr 421.552†	2527.6	2585.8	5.9604 µg/L	5.9604 ppb	21:53:35
1	Sc 361.383	1804309.0	1804309.0	102.81 %		21:53:47
1	Y 371.029	1125402.6	1125402.6	105.77 %		21:53:47
1	Ag 328.068†	3788.3	237.8	0.7849 µg/L	0.7849 ppb	21:53:49
1	As 188.979†	-9.8	8.2	6.2669 µg/L	6.2669 ppb	21:54:09
1	B 249.677†	3471.1	146.0	2.3677 µg/L	2.3677 ppb	21:53:49
1	Ba 233.527†	16630.8	16339.2	70.975 µg/L	70.975 ppb	21:53:49
1	Be 313.107†	3548.3	4237.1	1.2511 µg/L	1.2511 ppb	21:53:49
1	Cd 226.502†	105.7	212.8	0.0119 µg/L	0.0119 ppb	21:54:09
1	Co 228.616†	104.8	274.3	3.0621 µg/L	3.0621 ppb	21:54:09
1	Cr 267.716†	3962.7	3676.0	31.368 µg/L	31.368 ppb	21:53:49
1	Cu 324.752†	3766.4	874.7	5.6708 µg/L	5.6708 ppb	21:53:49
1	Mn 257.610†	427917.7	416066.1	556.06 µg/L	556.06 ppb	21:53:47
1	Mo 202.031†	2.5	37.2	1.7493 µg/L	1.7493 ppb	21:54:09
1	Ni 231.604†	1438.3	1477.0	18.577 µg/L	18.577 ppb	21:54:09
1	P 214.914†	550.7	530.7	118.01 µg/L	118.01 ppb	21:54:09
1	Pb 220.353†	211.9	109.1	7.2308 µg/L	7.2308 ppb	21:54:09
1	S 181.975 Axial†	323.3	226.8	185.92 µg/L	185.92 ppb	21:54:09
1	Sb 206.836†	77.8	-2.4	-0.9439 µg/L	-0.9439 ppb	21:54:09
1	Se 196.026†	11.7	-2.2	3.87 µg/L	3.87 ppb	21:54:09
1	SiO2†	93903.5	89588.2	9584.6 µg/L	9584.6 ppb	21:53:49
1	Si 251.611†	282835.2	274169.2	4437.7 µg/L	4437.7 ppb	21:53:49
1	Sn 189.927†	5.9	8.3	2.3283 µg/L	2.3283 ppb	21:54:09
1	Ti 334.940†	534673.2	519198.8	520.13 µg/L	520.13 ppb	21:53:47
1	Tl 190.801†	-174.9	-53.1	-0.3803 µg/L	-0.3803 ppb	21:54:09
1	U 409.014†	-1402.2	-1080.2	-66.350 µg/L	-66.350 ppb	21:53:49
1	V 292.402†	3231.6	2833.5	13.198 µg/L	13.198 ppb	21:53:49
1	Zn 213.857†	12420.6	11557.1	70.415 µg/L	70.415 ppb	21:53:49
2	Sc RADIAL	157067.7	157067.7	106 %		21:53:37
2	Al 396.153Radial†	21374.4	20180.2	4158.5 µg/L	4158.5 ppb	21:53:39
2	Ca 317.933Radial†	11140.0	9786.8	588.85 µg/L	588.85 ppb	21:53:39
2	Fe 238.204 Radial†	222892.1	209642.1	14107 µg/L	14107 ppb	21:53:37
2	K 766.490 Radial†	6581.0	4881.1	2007.2 µg/L	2007.2 ppb	21:53:39
2	Mg 279.077 IEC†	2079.6	1788.5	721.60 µg/L	721.60 ppb	21:53:39
2	Na 589.592 Radial†	23872.8	21262.1	3226.8 µg/L	3226.8 ppb	21:53:39
2	Sr 421.552†	2410.4	2490.3	5.7402 µg/L	5.7402 ppb	21:53:39
2	Sc 361.383	1822348.0	1822348.0	103.83 %		21:54:11
2	Y 371.029	1135423.0	1135423.0	106.71 %		21:54:11
2	Ag 328.068†	3420.3	-153.0	-0.7795 µg/L	-0.7795 ppb	21:54:13
2	As 188.979†	-6.0	11.9	7.6017 µg/L	7.6017 ppb	21:54:34
2	B 249.677†	3418.7	62.1	0.9992 µg/L	0.9992 ppb	21:54:13
2	Ba 233.527†	16650.0	16197.5	70.355 µg/L	70.355 ppb	21:54:13
2	Be 313.107†	3698.6	4347.6	1.2820 µg/L	1.2820 ppb	21:54:13
2	Cd 226.502†	107.6	213.6	-0.0075 µg/L	-0.0075 ppb	21:54:34
2	Co 228.616†	123.5	291.3	3.2791 µg/L	3.2791 ppb	21:54:34
2	Cr 267.716†	3998.0	3671.8	31.347 µg/L	31.347 ppb	21:54:13
2	Cu 324.752†	3992.5	1056.2	6.4650 µg/L	6.4650 ppb	21:54:13
2	Mn 257.610†	429865.7	413821.9	553.05 µg/L	553.05 ppb	21:54:11
2	Mo 202.031†	-9.4	25.7	1.3934 µg/L	1.3934 ppb	21:54:34
2	Ni 231.604†	1476.8	1500.1	18.868 µg/L	18.868 ppb	21:54:34
2	P 214.914†	549.6	524.3	116.34 µg/L	116.34 ppb	21:54:34
2	Pb 220.353†	242.7	136.8	8.9203 µg/L	8.9203 ppb	21:54:34



Ni 231.604†	1489.1	18.729 µg/L	0.1461	18.729 ppb	0.1461	0.78%
P 214.914†	531.1	118.03 µg/L	1.697	118.03 ppb	1.697	1.44%
Pb 220.353†	114.5	7.5564 µg/L	1.23368	7.5564 ppb	1.23368	16.33%
S 181.975 Axial†	224.5	184.04 µg/L	1.930	184.04 ppb	1.930	1.05%
Sb 206.836†	-9.1	-1.8218 µg/L	1.46411	-1.8218 ppb	1.46411	80.37%
Se 196.026†	-9.0	1.18 µg/L	2.945	1.18 ppb	2.945	248.77%
SiO2†	88944.4	9515.7 µg/L	68.59	9515.7 ppb	68.59	0.72%
Si 251.611†	272346.2	4408.2 µg/L	31.68	4408.2 ppb	31.68	0.72%
Sn 189.927†	3.4	1.9839 µg/L	0.37907	1.9839 ppb	0.37907	19.11%
Sr 421.552†	2533.0	5.8386 µg/L	0.11195	5.8386 ppb	0.11195	1.92%
Ti 334.940†	517901.2	518.83 µg/L	1.170	518.83 ppb	1.170	0.23%
Tl 190.801†	-49.8	0.0355 µg/L	1.89874	0.0355 ppb	1.89874	>999.9%
U 409.014†	-1083.2	-66.584 µg/L	7.2453	-66.584 ppb	7.2453	10.88%
Concentration less than lower limit for U 409.014.						
V 292.402†	2831.8	13.176 µg/L	0.0760	13.176 ppb	0.0760	0.58%
Zn 213.857†	11448.9	69.727 µg/L	0.7267	69.727 ppb	0.7267	1.04%





QC value within limits for Co 228.616	Recovery = 102.25%			
Cr 267.716†	59975.2	505.21 µg/L	1.762	505.21 ppb
QC value within limits for Cr 267.716	Recovery = 101.04%			
Cu 324.752†	119876.8	506.72 µg/L	2.404	506.72 ppb
QC value within limits for Cu 324.752	Recovery = 101.34%			
Fe 238.204 Radial†	76578.7	5152.9 µg/L	21.98	5152.9 ppb
QC value within limits for Fe 238.204 Radial	Recovery = 103.06%			
K 766.490 Radial†	12866.5	5291.1 µg/L	57.22	5291.1 ppb
QC value within limits for K 766.490 Radial	Recovery = 105.82%			
Mg 279.077 IEC†	12925.2	5310.2 µg/L	25.34	5310.2 ppb
QC value within limits for Mg 279.077 IEC	Recovery = 106.20%			
Mn 257.610†	380653.8	508.56 µg/L	1.862	508.56 ppb
QC value within limits for Mn 257.610	Recovery = 101.71%			
Mo 202.031†	15998.1	509.35 µg/L	2.791	509.35 ppb
QC value within limits for Mo 202.031	Recovery = 101.87%			
Na 589.592 Radial†	67360.9	10224 µg/L	73.1	10224 ppb
QC value within limits for Na 589.592 Radial	Recovery = 102.24%			
Ni 231.604†	40536.1	509.85 µg/L	2.169	509.85 ppb
QC value within limits for Ni 231.604	Recovery = 101.97%			
P 214.914†	10794.8	2566.1 µg/L	11.01	2566.1 ppb
QC value within limits for P 214.914	Recovery = 102.64%			
Pb 220.353†	8391.2	515.42 µg/L	2.326	515.42 ppb
QC value within limits for Pb 220.353	Recovery = 103.08%			
S 181.975 Axial†	1248.0	1027.3 µg/L	14.93	1027.3 ppb
QC value within limits for S 181.975 Axial	Recovery = 102.73%			
Sb 206.836†	3893.5	511.74 µg/L	0.208	511.74 ppb
QC value within limits for Sb 206.836	Recovery = 102.35%			
Se 196.026†	1284.8	517 µg/L	2.2	517 ppb
QC value within limits for Se 196.026	Recovery = 103.31%			
SiO2†	50808.4	5413.8 µg/L	28.58	5413.8 ppb
QC value within limits for SiO2	Recovery = 101.24%			
Si 251.611†	157189.4	2534.1 µg/L	10.35	2534.1 ppb
QC value within limits for Si 251.611	Recovery = 101.36%			
Sn 189.927†	7425.1	515.76 µg/L	3.247	515.76 ppb
QC value within limits for Sn 189.927	Recovery = 103.15%			
Sr 421.552†	225032.2	519.08 µg/L	3.337	519.08 ppb
QC value within limits for Sr 421.552	Recovery = 103.82%			
Ti 334.940†	506143.8	506.41 µg/L	1.704	506.41 ppb
QC value within limits for Ti 334.940	Recovery = 101.28%			
Tl 190.801†	3815.6	520.38 µg/L	1.706	520.38 ppb
QC value within limits for Tl 190.801	Recovery = 104.08%			
U 409.014†	7525.9	502.17 µg/L	7.627	502.17 ppb
QC value within limits for U 409.014	Recovery = 100.43%			
V 292.402†	94963.7	510.93 µg/L	1.262	510.93 ppb
QC value within limits for V 292.402	Recovery = 102.19%			
Zn 213.857†	82352.8	506.75 µg/L	2.155	506.75 ppb
QC value within limits for Zn 213.857	Recovery = 101.35%			

All analyte(s) passed QC.



Sequence No.: 134

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/30/2010 21:57:07

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	152056.8	152056.8	103 %		21:57:36
1	Al 396.153Radial†	-29.9	33.8	6.9443 µg/L	6.9443 ppb	21:57:56
1	Ca 317.933Radial†	728.9	10.7	0.6431 µg/L	0.6431 ppb	21:57:56
1	Fe 238.204 Radial†	173.0	27.5	1.8476 µg/L	1.8476 ppb	21:57:56
1	K 766.490 Radial†	1690.6	330.8	136.12 µg/L	136.12 ppb	21:57:36
1	Mg 279.077 IEC†	175.4	1.8	0.7410 µg/L	0.7410 ppb	21:57:56
1	Na 589.592 Radial†	1561.5	311.5	47.179 µg/L	47.179 ppb	21:57:36
1	Sr 421.552†	-179.5	47.1	0.1087 µg/L	0.1087 ppb	21:57:36
1	Sc 361.383	1783992.4	1783992.4	101.65 %		21:58:44
1	Y 371.029	1075751.3	1075751.3	101.10 %		21:58:44
1	Ag 328.068†	3576.6	71.6	0.2901 µg/L	0.2901 ppb	21:58:46
1	As 188.979†	-3.5	14.3	4.9795 µg/L	4.9795 ppb	21:59:06
1	B 249.677†	3336.2	51.8	0.8450 µg/L	0.8450 ppb	21:59:06
1	Ba 233.527†	-151.1	13.5	0.0588 µg/L	0.0588 ppb	21:59:06
1	Be 313.107†	-810.4	-11.7	-0.0019 µg/L	-0.0019 ppb	21:58:46
1	Cd 226.502†	-94.0	17.5	0.1202 µg/L	0.1202 ppb	21:59:06
1	Co 228.616†	-181.2	-5.8	-0.0786 µg/L	-0.0786 ppb	21:59:06
1	Cr 267.716†	172.7	-8.6	-0.0768 µg/L	-0.0768 ppb	21:59:06
1	Cu 324.752†	2938.4	101.9	0.4338 µg/L	0.4338 ppb	21:58:46
1	Mn 257.610†	246.2	66.6	0.0890 µg/L	0.0890 ppb	21:59:06
1	Mo 202.031†	-16.1	18.9	0.6011 µg/L	0.6011 ppb	21:59:06
1	Ni 231.604†	-57.5	21.3	0.2681 µg/L	0.2681 ppb	21:59:06
1	P 214.914†	-9.8	-14.6	-3.4917 µg/L	-3.4917 ppb	21:59:06
1	Pb 220.353†	55.0	-42.9	-2.6271 µg/L	-2.6271 ppb	21:59:06
1	S 181.975 Axial†	78.3	-10.6	-8.7149 µg/L	-8.7149 ppb	21:59:06
1	Sb 206.836†	87.8	8.3	1.1028 µg/L	1.1028 ppb	21:59:06
1	Se 196.026†	17.9	4.0	1.63 µg/L	1.63 ppb	21:59:06
1	SiO2†	1752.7	-28.9	-3.1230 µg/L	-3.1230 ppb	21:59:06
1	Si 251.611†	848.4	-114.0	-1.8602 µg/L	-1.8602 ppb	21:58:46
1	Sn 189.927†	14.2	16.5	1.1416 µg/L	1.1416 ppb	21:59:06
1	Ti 334.940†	919.4	18.9	0.0168 µg/L	0.0168 ppb	21:58:46
1	Tl 190.801†	-119.2	-0.2	-0.0269 µg/L	-0.0269 ppb	21:59:06
1	U 409.014†	-203.1	83.9	5.2519 µg/L	5.2519 ppb	21:58:46
1	V 292.402†	303.0	-11.8	-0.0533 µg/L	-0.0533 ppb	21:58:46
1	Zn 213.857†	586.9	52.9	0.3258 µg/L	0.3258 ppb	21:59:06
2	Sc RADIAL	149157.8	149157.8	101 %		21:57:58
2	Al 396.153Radial†	-53.4	9.9	2.0434 µg/L	2.0434 ppb	21:58:18
2	Ca 317.933Radial†	740.8	36.2	2.1810 µg/L	2.1810 ppb	21:58:18
2	Fe 238.204 Radial†	179.0	36.7	2.4679 µg/L	2.4679 ppb	21:58:18
2	K 766.490 Radial†	1759.9	431.4	177.54 µg/L	177.54 ppb	21:57:58
2	Mg 279.077 IEC†	166.5	-3.8	-1.5602 µg/L	-1.5602 ppb	21:58:18
2	Na 589.592 Radial†	1389.5	170.5	25.735 µg/L	25.735 ppb	21:57:58
2	Sr 421.552†	-302.3	-77.9	-0.1798 µg/L	-0.1798 ppb	21:57:58
2	Sc 361.383	1768634.3	1768634.3	100.77 %		21:59:08
2	Y 371.029	1068016.6	1068016.6	100.37 %		21:59:08
2	Ag 328.068†	3393.0	-80.1	-0.3250 µg/L	-0.3250 ppb	21:59:10
2	As 188.979†	-22.6	-4.8	-1.6666 µg/L	-1.6666 ppb	21:59:31
2	B 249.677†	3321.8	66.0	1.0763 µg/L	1.0763 ppb	21:59:31
2	Ba 233.527†	-143.0	20.3	0.0883 µg/L	0.0883 ppb	21:59:31
2	Be 313.107†	-926.5	-133.8	-0.0420 µg/L	-0.0420 ppb	21:59:10
2	Cd 226.502†	-96.6	14.1	0.0966 µg/L	0.0966 ppb	21:59:31
2	Co 228.616†	-179.8	-6.0	-0.0814 µg/L	-0.0814 ppb	21:59:31
2	Cr 267.716†	192.8	12.7	0.1124 µg/L	0.1124 ppb	21:59:31
2	Cu 324.752†	2968.1	156.5	0.6544 µg/L	0.6544 ppb	21:59:10
2	Mn 257.610†	225.2	47.9	0.0641 µg/L	0.0641 ppb	21:59:31
2	Mo 202.031†	-32.4	2.6	0.0821 µg/L	0.0821 ppb	21:59:31
2	Ni 231.604†	-93.5	-14.9	-0.1869 µg/L	-0.1869 ppb	21:59:31
2	P 214.914†	-2.6	-7.6	-1.8058 µg/L	-1.8058 ppb	21:59:31
2	Pb 220.353†	74.4	-23.1	-1.4090 µg/L	-1.4090 ppb	21:59:31



QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716† 1.5 0.0133 µg/L 0.09493 0.0133 ppb 0.09493 713.03%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.752† 86.4 0.3636 µg/L 0.33149 0.3636 ppb 0.33149 91.17%

QC value within limits for Cu 324.752 Recovery = Not calculated

Fe 238.204 Radial† 36.2 2.4359 µg/L 0.57293 2.4359 ppb 0.57293 23.52%

QC value within limits for Fe 238.204 Radial Recovery = Not calculated

K 766.490 Radial† 389.2 160.19 µg/L 21.514 160.19 ppb 21.514 13.43%

QC value greater than the upper limit for K 766.490 Radial Recovery = Not calculated

Mg 279.077 IEC† 5.0 2.0442 µg/L 4.40314 2.0442 ppb 4.40314 215.40%

QC value within limits for Mg 279.077 IEC Recovery = Not calculated

Mn 257.610† 47.9 0.0639 µg/L 0.02524 0.0639 ppb 0.02524 39.50%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031† 14.0 0.4465 µg/L 0.31673 0.4465 ppb 0.31673 70.94%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592 Radial† 242.8 36.720 µg/L 10.7316 36.720 ppb 10.7316 29.23%

QC value within limits for Na 589.592 Radial Recovery = Not calculated

Ni 231.604† -3.4 -0.0422 µg/L 0.26900 -0.0422 ppb 0.26900 636.81%

QC value within limits for Ni 231.604 Recovery = Not calculated

P 214.914† -12.3 -2.9443 µg/L 0.98621 -2.9443 ppb 0.98621 33.50%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353† -21.7 -1.3292 µg/L 1.33966 -1.3292 ppb 1.33966 100.79%

QC value within limits for Pb 220.353 Recovery = Not calculated

S 181.975 Axial† 2.2 1.7996 µg/L 9.13661 1.7996 ppb 9.13661 507.70%

QC value within limits for S 181.975 Axial Recovery = Not calculated

Sb 206.836† 1.0 0.1358 µg/L 1.34421 0.1358 ppb 1.34421 989.58%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026† 0.6 0.233 µg/L 1.8134 0.233 ppb 1.8134 779.80%

QC value within limits for Se 196.026 Recovery = Not calculated

SiO2† -11.9 -1.2967 µg/L 2.92449 -1.2967 ppb 2.92449 225.53%

QC value within limits for SiO2 Recovery = Not calculated

Si 251.611† -58.7 -0.9598 µg/L 0.80819 -0.9598 ppb 0.80819 84.21%

QC value within limits for Si 251.611 Recovery = Not calculated

Sn 189.927† 8.7 0.6045 µg/L 0.61693 0.6045 ppb 0.61693 102.05%

QC value within limits for Sn 189.927 Recovery = Not calculated

Sr 421.552† 15.6 0.0359 µg/L 0.19001 0.0359 ppb 0.19001 529.85%

QC value within limits for Sr 421.552 Recovery = Not calculated

Ti 334.940† 33.8 0.0341 µg/L 0.06826 0.0341 ppb 0.06826 200.24%

QC value within limits for Ti 334.940 Recovery = Not calculated

Tl 190.801† 6.2 0.8401 µg/L 1.53814 0.8401 ppb 1.53814 183.09%

QC value within limits for Tl 190.801 Recovery = Not calculated

U 409.014† -14.6 -0.8962 µg/L 5.77816 -0.8962 ppb 5.77816 644.74%

QC value within limits for U 409.014 Recovery = Not calculated

V 292.402† 59.6 0.3204 µg/L 0.51772 0.3204 ppb 0.51772 161.57%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857† 36.2 0.2242 µg/L 0.09897 0.2242 ppb 0.09897 44.15%

QC value within limits for Zn 213.857 Recovery = Not calculated

QC Failed. Continue with analysis.

Sequence No.: 139

Sample ID: 248520001|962575|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 323

Date Collected: 3/30/2010 22:08:06

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248520001|962575|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	152949.8	152949.8	103 %		22:08:38
1	Al 396.153Radial†	194460.8	188014.2	38744 µg/L	38744 ppb	22:08:38
1	Ca 317.933Radial†	338851.4	326810.4	19663 µg/L	19663 ppb	22:08:38
1	Fe 238.204 Radial†	1191501.1	1151475.0	77481 µg/L	77481 ppb	22:08:36
1	K 766.490 Radial†	21921.8	19875.2	8166.8 µg/L	8166.8 ppb	22:08:38
1	Mg 279.077 IEC†	21350.0	20466.5	8329.3 µg/L	8329.3 ppb	22:08:38
1	Na 589.592 Radial†	5743.4	4344.5	652.43 µg/L	652.43 ppb	22:08:38
1	Sr 421.552†	69405.5	67303.9	155.11 µg/L	155.11 ppb	22:08:38
1	Sc 361.383	1789245.7	1789245.7	101.95 %		22:08:51
1	Y 371.029	1203849.4	1203849.4	113.14 %		22:08:51
1	Ag 328.068†	6186.1	2620.8	9.1371 µg/L	9.1371 ppb	22:08:51
1	As 188.979†	20.1	37.4	31.017 µg/L	31.017 ppb	22:09:11
1	B 249.677†	5917.7	2574.3	41.892 µg/L	41.892 ppb	22:08:51
1	Ba 233.527†	109862.7	107926.8	468.99 µg/L	468.99 ppb	22:08:51
1	Be 313.107†	25654.6	25950.2	7.6843 µg/L	7.6843 ppb	22:08:51
1	Cd 226.502†	1142.0	1230.2	0.3255 µg/L	0.3255 ppb	22:09:11
1	Co 228.616†	1559.4	1702.1	19.449 µg/L	19.449 ppb	22:09:11
1	Cr 267.716†	7713.2	7387.3	64.264 µg/L	64.264 ppb	22:09:11
1	Cu 324.752†	8478.7	5527.8	34.535 µg/L	34.535 ppb	22:08:51
1	Mn 257.610†	2681576.8	2630192.6	3515.0 µg/L	3515.0 ppb	22:08:51
1	Mo 202.031†	2.7	37.4	4.4400 µg/L	4.4400 ppb	22:09:11
1	Ni 231.604†	4454.4	4447.2	55.936 µg/L	55.936 ppb	22:09:11
1	P 214.914†	3549.3	3476.6	784.89 µg/L	784.89 ppb	22:09:11
1	Pb 220.353†	1067.8	950.4	61.496 µg/L	61.496 ppb	22:09:11
1	S 181.975 Axial†	1028.3	920.9	754.92 µg/L	754.92 ppb	22:09:11
1	Sb 206.836†	89.3	9.6	-0.7416 µg/L	-0.7416 ppb	22:09:11
1	Se 196.026†	-38.1	-50.9	6.18 µg/L	6.18 ppb	22:09:11
1	SiO2†	627006.8	613280.1	65612 µg/L	65612 ppb	22:08:51
1	Si 251.611†	1919673.1	1882065.4	30463 µg/L	30463 ppb	22:08:51
1	Sn 189.927†	28.7	30.7	10.151 µg/L	10.151 ppb	22:09:11
1	Ti 334.940†	2422672.9	2375522.8	2379.8 µg/L	2379.8 ppb	22:08:51
1	Tl 190.801†	-399.6	-274.9	-3.4005 µg/L	-3.4005 ppb	22:09:11
1	U 409.014†	-5864.7	-5469.0	-331.21 µg/L	-331.21 ppb	22:08:51
1	V 292.402†	18307.9	17648.4	83.368 µg/L	83.368 ppb	22:08:51
1	Zn 213.857†	56879.0	55268.3	335.81 µg/L	335.81 ppb	22:08:51
2	Sc RADIAL	152328.5	152328.5	103 %		22:08:42
2	Al 396.153Radial†	193195.9	187553.2	38649 µg/L	38649 ppb	22:08:42
2	Ca 317.933Radial†	335500.9	324894.7	19548 µg/L	19548 ppb	22:08:42
2	Fe 238.204 Radial†	1194984.4	1159552.6	78025 µg/L	78025 ppb	22:08:40
2	K 766.490 Radial†	21614.6	19663.4	8079.7 µg/L	8079.7 ppb	22:08:42
2	Mg 279.077 IEC†	21070.8	20279.7	8252.2 µg/L	8252.2 ppb	22:08:42
2	Na 589.592 Radial†	5742.9	4366.7	655.87 µg/L	655.87 ppb	22:08:42
2	Sr 421.552†	68842.3	67030.8	154.48 µg/L	154.48 ppb	22:08:42
2	Sc 361.383	1742175.3	1742175.3	99.265 %		22:09:14
2	Y 371.029	1173678.3	1173678.3	110.30 %		22:09:14
2	Ag 328.068†	5821.2	2417.2	8.3500 µg/L	8.3500 ppb	22:09:14
2	As 188.979†	14.4	32.2	29.366 µg/L	29.366 ppb	22:09:34
2	B 249.677†	5598.3	2409.4	39.202 µg/L	39.202 ppb	22:09:14
2	Ba 233.527†	106605.9	107557.5	467.38 µg/L	467.38 ppb	22:09:14
2	Be 313.107†	25591.5	26566.6	7.8708 µg/L	7.8708 ppb	22:09:14
2	Cd 226.502†	1120.5	1238.8	0.3281 µg/L	0.3281 ppb	22:09:34
2	Co 228.616†	1558.9	1742.9	19.972 µg/L	19.972 ppb	22:09:34
2	Cr 267.716†	7726.2	7604.9	66.117 µg/L	66.117 ppb	22:09:34
2	Cu 324.752†	8300.6	5573.1	34.807 µg/L	34.807 ppb	22:09:14
2	Mn 257.610†	2602387.4	2621484.4	3503.4 µg/L	3503.4 ppb	22:09:14
2	Mo 202.031†	11.6	46.5	4.7479 µg/L	4.7479 ppb	22:09:34
2	Ni 231.604†	4445.7	4556.6	57.311 µg/L	57.311 ppb	22:09:34
2	P 214.914†	3542.4	3563.7	805.27 µg/L	805.27 ppb	22:09:34
2	Pb 220.353†	1052.3	963.1	62.246 µg/L	62.246 ppb	22:09:34



Ni 231.604†	4524.7	56.911 µg/L	0.8483	56.911 ppb	0.8483	1.49%
P 214.914†	3553.8	802.94 µg/L	17.003	802.94 ppb	17.003	2.12%
Pb 220.353†	965.7	62.415 µg/L	1.0149	62.415 ppb	1.0149	1.63%
S 181.975 Axial†	940.1	770.61 µg/L	13.604	770.61 ppb	13.604	1.77%
Sb 206.836†	0.4	-1.9685 µg/L	1.53872	-1.9685 ppb	1.53872	78.17%
Se 196.026†	-58.0	3.55 µg/L	2.454	3.55 ppb	2.454	69.04%
SiO2†	612916.1	65573 µg/L	244.9	65573 ppb	244.9	0.37%
Si 251.611†	1880985.3	30446 µg/L	121.6	30446 ppb	121.6	0.40%
Sn 189.927†	30.9	10.185 µg/L	0.1756	10.185 ppb	0.1756	1.72%
Sr 421.552†	67346.1	155.20 µg/L	0.780	155.20 ppb	0.780	0.50%
Ti 334.940†	2380623.1	2384.9 µg/L	10.02	2384.9 ppb	10.02	0.42%
Tl 190.801†	-285.1	-4.7059 µg/L	1.46795	-4.7059 ppb	1.46795	31.19%
U 409.014†	-5379.5	-325.69 µg/L	5.942	-325.69 ppb	5.942	1.82%
Concentration less than lower limit for U 409.014.						
V 292.402†	17786.3	84.046 µg/L	0.5896	84.046 ppb	0.5896	0.70%
Zn 213.857†	55108.8	334.76 µg/L	1.823	334.76 ppb	1.823	0.54%







Na 589.592 Radial†	6211.7	930.67 µg/L	13.446	930.67 ppb	13.446	1.44%
Ni 231.604†	3293.8	41.429 µg/L	0.5912	41.429 ppb	0.5912	1.43%
P 214.914†	15854.8	3725.9 µg/L	22.70	3725.9 ppb	22.70	0.61%
Pb 220.353†	3109.4	193.92 µg/L	1.493	193.92 ppb	1.493	0.77%
S 181.975 Axial†	8629.1	7073.6 µg/L	51.45	7073.6 ppb	51.45	0.73%
Sb 206.836†	147.1	2.9967 µg/L	0.88589	2.9967 ppb	0.88589	29.56%
Se 196.026†	-76.1	3.57 µg/L	1.467	3.57 ppb	1.467	41.04%
SiO2†	569840.0	60964 µg/L	247.7	60964 ppb	247.7	0.41%
Si 251.611†	1753678.5	28385 µg/L	105.0	28385 ppb	105.0	0.37%
Sn 189.927†	622.9	50.648 µg/L	0.1941	50.648 ppb	0.1941	0.38%
Sr 421.552†	143150.9	329.80 µg/L	4.425	329.80 ppb	4.425	1.34%
Ti 334.940†	2225862.4	2230.1 µg/L	9.55	2230.1 ppb	9.55	0.43%
Tl 190.801†	-287.2	-5.3916 µg/L	1.47739	-5.3916 ppb	1.47739	27.40%
U 409.014†	-5098.8	-304.20 µg/L	2.688	-304.20 ppb	2.688	0.88%
Concentration less than lower limit for U 409.014.						
V 292.402†	43995.0	225.23 µg/L	1.057	225.23 ppb	1.057	0.47%
Zn 213.857†	146106.8	896.85 µg/L	3.065	896.85 ppb	3.065	0.34%

Sequence No.: 141

Sample ID: 248520003|962575|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 325

Date Collected: 3/30/2010 22:12:18

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248520003|962575|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	147170.5	147170.5	99.6 %		22:12:50
1	Al 396.153Radial†	198680.5	199633.5	41139 µg/L	41139 ppb	22:12:48
1	Ca 317.933Radial†	331868.6	332657.5	20015 µg/L	20015 ppb	22:12:50
1	Fe 238.204 Radial†	1209530.5	1214808.9	81743 µg/L	81743 ppb	22:12:48
1	K 766.490 Radial†	22118.6	20904.9	8589.9 µg/L	8589.9 ppb	22:12:50
1	Mg 279.077 IEC†	21351.7	21278.5	8658.7 µg/L	8658.7 ppb	22:12:50
1	Na 589.592 Radial†	5353.9	4171.3	625.75 µg/L	625.75 ppb	22:12:50
1	Sr 421.552†	65305.9	65820.1	151.68 µg/L	151.68 ppb	22:12:50
1	Sc 361.383	1765584.9	1765584.9	100.60 %		22:13:03
1	Y 371.029	1208146.5	1208146.5	113.54 %		22:13:03
1	Ag 328.068†	3885.1	414.9	0.5706 µg/L	0.5706 ppb	22:13:03
1	As 188.979†	19.8	37.4	32.221 µg/L	32.221 ppb	22:13:23
1	B 249.677†	4653.8	1395.8	22.677 µg/L	22.677 ppb	22:13:03
1	Ba 233.527†	116907.9	116374.3	505.72 µg/L	505.72 ppb	22:13:03
1	Be 313.107†	25181.4	25817.1	7.6547 µg/L	7.6547 ppb	22:13:03
1	Cd 226.502†	1185.1	1288.1	0.2773 µg/L	0.2773 ppb	22:13:23
1	Co 228.616†	1542.4	1705.6	19.317 µg/L	19.317 ppb	22:13:23
1	Cr 267.716†	10805.6	10562.7	91.331 µg/L	91.331 ppb	22:13:23
1	Cu 254.752†	9233.6	6389.7	38.824 µg/L	38.824 ppb	22:13:03
1	Mn 327.610†	2055122.3	2042716.1	2729.8 µg/L	2729.8 ppb	22:13:03
1	Mo 202.031†	-11.2	23.6	4.1729 µg/L	4.1729 ppb	22:13:23
1	Ni 231.604†	4773.9	4823.4	60.668 µg/L	60.668 ppb	22:13:23
1	P 214.914†	4094.5	4065.1	922.90 µg/L	922.90 ppb	22:13:23
1	Pb 220.353†	1285.7	1181.1	75.675 µg/L	75.675 ppb	22:13:23
1	S 181.975 Axial†	1010.2	916.5	751.27 µg/L	751.27 ppb	22:13:23
1	Sb 206.836†	57.8	-20.6	-5.1699 µg/L	-5.1699 ppb	22:13:23
1	Se 196.026†	-45.3	-58.6	4.60 µg/L	4.60 ppb	22:13:23
1	SiO2†	576364.0	571180.7	61108 µg/L	61108 ppb	22:13:03
1	Si 251.611†	1768111.5	1756640.2	28433 µg/L	28433 ppb	22:13:03
1	Sn 189.927†	73.3	75.4	13.438 µg/L	13.438 ppb	22:13:23
1	Ti 334.940†	2447637.3	2432185.1	2436.6 µg/L	2436.6 ppb	22:13:03
1	Tl 190.801†	-410.9	-291.4	-7.0809 µg/L	-7.0809 ppb	22:13:23
1	U 409.014†	-5237.3	-4922.4	-303.18 µg/L	-303.18 ppb	22:13:03
1	V 292.402†	17650.4	17235.5	80.807 µg/L	80.807 ppb	22:13:23
1	Zn 213.857†	66865.6	65943.1	401.66 µg/L	401.66 ppb	22:13:03
2	Sc RADIAL	151009.5	151009.5	102 %		22:12:54
2	Al 396.153Radial†	198606.3	194487.3	40078 µg/L	40078 ppb	22:12:52
2	Ca 317.933Radial†	336569.9	328785.1	19782 µg/L	19782 ppb	22:12:54
2	Fe 238.204 Radial†	1202035.4	1176584.6	79171 µg/L	79171 ppb	22:12:52
2	K 766.490 Radial†	22225.2	20444.4	8400.7 µg/L	8400.7 ppb	22:12:54
2	Mg 279.077 IEC†	21786.8	21159.3	8612.0 µg/L	8612.0 ppb	22:12:54
2	Na 589.592 Radial†	5465.5	4143.8	621.73 µg/L	621.73 ppb	22:12:54
2	Sr 421.552†	66109.7	64939.4	149.65 µg/L	149.65 ppb	22:12:54
2	Sc 361.383	1719238.0	1719238.0	97.958 %		22:13:26
2	Y 371.029	1182582.5	1182582.5	111.14 %		22:13:26
2	Ag 328.068†	3860.3	493.6	0.8973 µg/L	0.8973 ppb	22:13:26
2	As 188.979†	9.1	27.0	28.049 µg/L	28.049 ppb	22:13:46
2	B 249.677†	4744.9	1613.5	26.224 µg/L	26.224 ppb	22:13:26
2	Ba 233.527†	118290.3	120918.3	525.54 µg/L	525.54 ppb	22:13:26
2	Be 313.107†	25358.9	26673.1	7.9087 µg/L	7.9087 ppb	22:13:26
2	Cd 226.502†	1213.0	1348.3	0.9618 µg/L	0.9618 ppb	22:13:46
2	Co 228.616†	1569.2	1774.3	20.399 µg/L	20.399 ppb	22:13:46
2	Cr 267.716†	10828.5	10875.7	93.864 µg/L	93.864 ppb	22:13:46
2	Cu 254.752†	9135.4	6536.9	39.061 µg/L	39.061 ppb	22:13:26
2	Mn 327.610†	2075246.1	2118331.2	2830.8 µg/L	2830.8 ppb	22:13:26
2	Mo 202.031†	-35.4	-1.3	3.2782 µg/L	3.2782 ppb	22:13:46
2	Ni 231.604†	4786.5	4964.2	62.439 µg/L	62.439 ppb	22:13:46
2	P 214.914†	4080.9	4161.0	947.28 µg/L	947.28 ppb	22:13:46
2	Pb 220.353†	1271.6	1201.1	77.046 µg/L	77.046 ppb	22:13:46

2	S 181.975 Axial†	1003.4	936.7	767.81 µg/L	767.81 ppb	22:13:46
2	Sb 206.836†	78.1	1.7	-2.2611 µg/L	-2.2611 ppb	22:13:46
2	Se 196.026†	-58.5	-73.3	-2.17 µg/L	-2.17 ppb	22:13:46
2	SiO2†	580591.7	590941.6	63222 µg/L	63222 ppb	22:13:26
2	Si 251.611†	1781106.9	1817287.3	29415 µg/L	29415 ppb	22:13:26
2	Sn 189.927†	46.5	50.0	11.987 µg/L	11.987 ppb	22:13:46
2	Ti 334.940†	2472782.5	2523444.7	2528.0 µg/L	2528.0 ppb	22:13:26
2	Tl 190.801†	-390.9	-281.9	-4.6232 µg/L	-4.6232 ppb	22:13:46
2	U 409.014†	-5248.7	-5074.4	-311.32 µg/L	-311.32 ppb	22:13:26
2	V 292.402†	17667.5	17725.9	83.594 µg/L	83.594 ppb	22:13:46
2	Zn 213.857†	67212.8	68089.3	415.26 µg/L	415.26 ppb	22:13:26
3	Sc RADIAL	147856.5	147856.5	100 %		22:12:58
3	Al 396.153Radial†	198927.3	198954.3	40999 µg/L	40999 ppb	22:12:56
3	Ca 317.933Radial†	332756.6	331998.6	19976 µg/L	19976 ppb	22:12:58
3	Fe 238.204 Radial†	1203556.9	1203199.1	80962 µg/L	80962 ppb	22:12:56
3	K 766.490 Radial†	22159.9	20843.1	8564.5 µg/L	8564.5 ppb	22:12:58
3	Mg 279.077 IEC†	21434.0	21261.3	8652.4 µg/L	8652.4 ppb	22:12:58
3	Na 589.592 Radial†	5447.7	4240.1	636.22 µg/L	636.22 ppb	22:12:58
3	Sr 421.552†	65649.7	65859.5	151.77 µg/L	151.77 ppb	22:12:58
3	Sc 361.383	1735793.8	1735793.8	98.901 %		22:13:49
3	Y 371.029	1193371.3	1193371.3	112.15 %		22:13:49
3	Ag 328.068†	3770.6	365.4	0.3759 µg/L	0.3759 ppb	22:13:49
3	As 188.979†	9.2	27.0	28.437 µg/L	28.437 ppb	22:14:09
3	B 249.677†	4626.6	1447.7	23.521 µg/L	23.521 ppb	22:13:49
3	Ba 233.527†	118380.9	119858.2	520.90 µg/L	520.90 ppb	22:13:49
3	Be 313.107†	25444.3	26512.6	7.8629 µg/L	7.8629 ppb	22:13:49
3	Cd 226.502†	1209.8	1333.3	0.6706 µg/L	0.6706 ppb	22:14:09
3	Co 228.616†	1557.9	1747.7	19.941 µg/L	19.941 ppb	22:14:09
3	Cr 267.716†	10863.5	10805.6	93.335 µg/L	93.335 ppb	22:14:09
3	Cu 324.752†	9158.8	6471.6	39.054 µg/L	39.054 ppb	22:13:49
3	Mn 257.610†	2073875.7	2096739.6	2802.0 µg/L	2802.0 ppb	22:13:49
3	Mo 202.031†	-4.8	29.9	4.3430 µg/L	4.3430 ppb	22:14:09
3	Ni 231.604†	4824.5	4955.9	62.335 µg/L	62.335 ppb	22:14:09
3	P 214.914†	4081.8	4122.2	937.00 µg/L	937.00 ppb	22:14:09
3	Pb 220.353†	1275.8	1193.0	76.517 µg/L	76.517 ppb	22:14:09
3	S 181.975 Axial†	1009.9	933.4	765.16 µg/L	765.16 ppb	22:14:09
3	Sb 206.836†	90.0	12.9	-0.7902 µg/L	-0.7902 ppb	22:14:09
3	Se 196.026†	-53.4	-67.6	0.727 µg/L	0.727 ppb	22:14:09
3	SiO2†	580363.6	585057.9	62592 µg/L	62592 ppb	22:13:49
3	Si 251.611†	1779822.2	1798646.3	29113 µg/L	29113 ppb	22:13:49
3	Sn 189.927†	58.4	61.6	12.709 µg/L	12.709 ppb	22:14:09
3	Ti 334.940†	2473276.9	2499867.9	2504.4 µg/L	2504.4 ppb	22:13:49
3	Tl 190.801†	-397.1	-284.4	-5.2771 µg/L	-5.2771 ppb	22:14:09
3	U 409.014†	-5177.0	-4950.7	-304.22 µg/L	-304.22 ppb	22:13:49
3	V 292.402†	17635.1	17521.1	82.353 µg/L	82.353 ppb	22:14:09
3	Zn 213.857†	67091.0	67311.8	410.25 µg/L	410.25 ppb	22:13:49

## Mean Data: 248520003|962575|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Sc 361.383	1740205.6	99.153 %		1.3382			1.35%
Sc RADIAL	148678.8	101 %		1.4			1.38%
Y 371.029	1194700.1	112.28 %		1.206			1.07%
Ag 328.068†	424.6	0.6146 µg/L		0.26344	0.6146 ppb	0.26344	42.86%
Al 396.153Radial†	197691.7	40739 µg/L		576.1	40739 ppb	576.1	1.41%
As 188.979†	30.4	29.569 µg/L		2.3052	29.569 ppb	2.3052	7.80%
B 249.677†	1485.6	24.141 µg/L		1.8529	24.141 ppb	1.8529	7.68%
Ba 233.527†	119050.3	517.39 µg/L		10.367	517.39 ppb	10.367	2.00%
Be 313.107†	26334.3	7.8088 µg/L		0.13538	7.8088 ppb	0.13538	1.73%
Ca 317.933Radial†	331147.0	19924 µg/L		124.7	19924 ppb	124.7	0.63%
Cd 226.502†	1323.2	0.6366 µg/L		0.34352	0.6366 ppb	0.34352	53.96%
Co 228.616†	1742.5	19.886 µg/L		0.5435	19.886 ppb	0.5435	2.73%
Cr 267.716†	10748.0	92.843 µg/L		1.3359	92.843 ppb	1.3359	1.44%
Cu 324.752†	6466.1	38.980 µg/L		0.1348	38.980 ppb	0.1348	0.35%
Fe 238.204 Radial†	1198197.5	80625 µg/L		1318.6	80625 ppb	1318.6	1.64%
K 766.490 Radial†	20730.8	8518.4 µg/L		102.70	8518.4 ppb	102.70	1.21%
Mg 279.077 IEC†	21233.0	8641.0 µg/L		25.34	8641.0 ppb	25.34	0.29%
Mn 257.610†	2085929.0	2787.5 µg/L		52.06	2787.5 ppb	52.06	1.87%
Mo 202.031†	17.4	3.9314 µg/L		0.57202	3.9314 ppb	0.57202	14.55%
Na 589.592 Radial†	4185.1	627.90 µg/L		7.479	627.90 ppb	7.479	1.19%

Ni 231.604†	4914.5	61.814 µg/L	0.9938	61.814 ppb	0.9938	1.61%
P 214.914†	4116.1	935.73 µg/L	12.236	935.73 ppb	12.236	1.31%
Pb 220.353†	1191.7	76.413 µg/L	0.6914	76.413 ppb	0.6914	0.90%
S 181.975 Axial†	928.8	761.41 µg/L	8.881	761.41 ppb	8.881	1.17%
Sb 206.836†	-2.0	-2.7404 µg/L	2.22884	-2.7404 ppb	2.22884	81.33%
Se 196.026†	-66.5	1.05 µg/L	3.393	1.05 ppb	3.393	322.20%
SiO2†	582393.4	62307 µg/L	1085.5	62307 ppb	1085.5	1.74%
Si 251.611†	1790857.9	28987 µg/L	502.8	28987 ppb	502.8	1.73%
Sn 189.927†	62.3	12.712 µg/L	0.7259	12.712 ppb	0.7259	5.71%
Sr 421.552†	65539.7	151.03 µg/L	1.199	151.03 ppb	1.199	0.79%
Ti 334.940†	2485165.9	2489.6 µg/L	47.46	2489.6 ppb	47.46	1.91%
Tl 190.801†	-285.9	-5.6604 µg/L	1.27288	-5.6604 ppb	1.27288	22.49%
U 409.014†	-4982.5	-306.24 µg/L	4.430	-306.24 ppb	4.430	1.45%
Concentration less than lower limit for U 409.014.						
V 292.402†	17494.2	82.252 µg/L	1.3963	82.252 ppb	1.3963	1.70%
Zn 213.857†	67114.8	409.06 µg/L	6.879	409.06 ppb	6.879	1.68%

Sequence No.: 142

Sample ID: 248520004|962575|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 326

Date Collected: 3/30/2010 22:14:16

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248520004|962575|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	148242.2	148242.2	100 %		22:14:48
1	Al 396.153Radial†	269509.9	268823.0	55397 µg/L	55397 ppb	22:14:46
1	Ca 317.933Radial†	811035.1	808080.9	48620 µg/L	48620 ppb	22:14:46
1	Fe 238.204 Radial†	1146095.1	1142766.0	76895 µg/L	76895 ppb	22:14:46
1	K 766.490 Radial†	36145.2	34731.8	14272 µg/L	14272 ppb	22:14:48
1	Mg 279.077 IEC†	30790.4	30536.0	12461 µg/L	12461 ppb	22:14:48
1	Na 589.592 Radial†	6633.1	5408.0	808.47 µg/L	808.47 ppb	22:14:48
1	Sr 421.552†	128565.1	128429.1	295.89 µg/L	295.89 ppb	22:14:46
1	Sc 361.383	1698178.9	1698178.9	96.758 %		22:15:01
1	Y 371.029	1147614.3	1147614.3	107.85 %		22:15:01
1	Ag 328.068†	840017.0	864715.2	3436.8 µg/L	3436.8 ppb	22:15:01
1	As 188.979†	67.0	87.0	55.553 µg/L	55.553 ppb	22:15:21
1	B 249.677†	7921.2	4956.2	80.738 µg/L	80.738 ppb	22:15:01
1	Ba 233.527†	175652.6	181700.1	790.30 µg/L	790.30 ppb	22:15:01
1	Be 313.107†	27607.5	29318.1	8.7028 µg/L	8.7028 ppb	22:15:01
1	Cd 226.502†	2482.1	2675.3	10.306 µg/L	10.306 ppb	22:15:21
1	Co 228.616†	1282.7	1498.1	17.180 µg/L	17.180 ppb	22:15:21
1	Cr 267.716†	96293.8	99341.7	839.15 µg/L	839.15 ppb	22:15:01
1	Cu 324.752†	59506.1	58711.0	258.68 µg/L	258.68 ppb	22:15:01
1	Mn 257.610†	2259583.3	2335116.3	3120.5 µg/L	3120.5 ppb	22:15:01
1	Mo 202.031†	38.5	74.6	5.7182 µg/L	5.7182 ppb	22:15:21
1	Ni 231.604†	3713.4	3915.7	49.251 µg/L	49.251 ppb	22:15:21
1	P 214.914†	14284.1	14757.7	3477.6 µg/L	3477.6 ppb	22:15:21
1	Pb 220.353†	3278.6	3291.5	205.54 µg/L	205.54 ppb	22:15:21
1	S 181.975 Axial†	7602.4	7769.4	6368.9 µg/L	6368.9 ppb	22:15:21
1	Sb 206.836†	177.1	104.9	0.3308 µg/L	0.3308 ppb	22:15:21
1	Se 196.026†	-51.8	-67.1	-0.491 µg/L	-0.491 ppb	22:15:21
1	SiO2†	523477.4	539263.7	57693 µg/L	57693 ppb	22:15:01
1	Si 251.611†	1606809.2	1659697.6	26864 µg/L	26864 ppb	22:15:01
1	Sn 189.927†	531.7	552.1	45.640 µg/L	45.640 ppb	22:15:21
1	Ti 334.940†	2126043.4	2196392.1	2200.5 µg/L	2200.5 ppb	22:15:01
1	Tl 190.801†	-386.7	-282.5	-6.2721 µg/L	-6.2721 ppb	22:15:21
1	U 409.014†	-5167.4	-5056.8	-300.01 µg/L	-300.01 ppb	22:15:01
1	V 292.402†	41074.7	42141.1	217.00 µg/L	217.00 ppb	22:15:01
1	Zn 213.857†	110398.8	113573.2	697.29 µg/L	697.29 ppb	22:15:01
2	Sc RADIAL	147534.8	147534.8	99.8 %		22:14:52
2	Al 396.153Radial†	273672.4	274282.6	56522 µg/L	56522 ppb	22:14:50
2	Ca 317.933Radial†	823125.6	824073.7	49583 µg/L	49583 ppb	22:14:50
2	Fe 238.204 Radial†	1163763.9	1165950.5	78455 µg/L	78455 ppb	22:14:50
2	K 766.490 Radial†	36300.7	35060.5	14406 µg/L	14406 ppb	22:14:52
2	Mg 279.077 IEC†	31062.3	30955.6	12631 µg/L	12631 ppb	22:14:52
2	Na 589.592 Radial†	6483.0	5289.3	790.34 µg/L	790.34 ppb	22:14:52
2	Sr 421.552†	130364.6	130847.0	301.46 µg/L	301.46 ppb	22:14:50
2	Sc 361.383	1723693.7	1723693.7	98.212 %		22:15:24
2	Y 371.029	1165684.3	1165684.3	109.55 %		22:15:24
2	Ag 328.068†	856074.6	868214.2	3450.7 µg/L	3450.7 ppb	22:15:24
2	As 188.979†	74.8	93.8	58.347 µg/L	58.347 ppb	22:15:44
2	B 249.677†	8335.2	5256.6	85.636 µg/L	85.636 ppb	22:15:24
2	Ba 233.527†	179010.0	182431.4	793.47 µg/L	793.47 ppb	22:15:24
2	Be 313.107†	28342.9	29644.6	8.8042 µg/L	8.8042 ppb	22:15:24
2	Cd 226.502†	2515.3	2671.1	10.113 µg/L	10.113 ppb	22:15:44
2	Co 228.616†	1295.4	1491.4	17.012 µg/L	17.012 ppb	22:15:44
2	Cr 267.716†	98270.4	99881.0	843.74 µg/L	843.74 ppb	22:15:24
2	Cu 324.752†	60664.0	58979.5	260.05 µg/L	260.05 ppb	22:15:24
2	Mn 257.610†	2302485.7	2344232.0	3132.6 µg/L	3132.6 ppb	22:15:24
2	Mo 202.031†	36.4	71.8	5.6959 µg/L	5.6959 ppb	22:15:44
2	Ni 231.604†	3702.9	3848.2	48.402 µg/L	48.402 ppb	22:15:44
2	P 214.914†	14239.8	14494.1	3413.9 µg/L	3413.9 ppb	22:15:44
2	Pb 220.353†	3263.5	3225.9	201.55 µg/L	201.55 ppb	22:15:44

2	S 181.975 Axial†	7582.5	7632.8	6256.9 µg/L	6256.9 ppb	22:15:44
2	Sb 206.836†	186.3	111.6	1.1104 µg/L	1.1104 ppb	22:15:44
2	Se 196.026†	-46.6	-61.0	2.51 µg/L	2.51 ppb	22:15:44
2	SiO2†	533625.1	541587.8	57941 µg/L	57941 ppb	22:15:24
2	Si 251.611†	1637924.8	1666798.2	26979 µg/L	26979 ppb	22:15:24
2	Sn 189.927†	522.1	534.2	44.440 µg/L	44.440 ppb	22:15:44
2	Ti 334.940†	2169039.8	2207646.4	2211.8 µg/L	2211.8 ppb	22:15:24
2	Tl 190.801†	-402.2	-292.4	-7.4418 µg/L	-7.4418 ppb	22:15:44
2	U 409.014†	-5070.6	-4879.2	-289.05 µg/L	-289.05 ppb	22:15:24
2	V 292.402†	41916.5	42369.9	218.06 µg/L	218.06 ppb	22:15:24
2	Zn 213.857†	112306.2	113826.4	698.72 µg/L	698.72 ppb	22:15:24
3	Sc RADIAL	147106.0	147106.0	99.5 %		22:14:57
3	Al 396.153Radial†	275255.4	276672.6	57014 µg/L	57014 ppb	22:14:55
3	Ca 317.933Radial†	824005.7	827362.2	49780 µg/L	49780 ppb	22:14:55
3	Fe 238.204 Radial†	1165294.0	1170887.1	78788 µg/L	78788 ppb	22:14:55
3	K 766.490 Radial†	36354.0	35220.1	14472 µg/L	14472 ppb	22:14:57
3	Mg 279.077 IEC†	30564.8	30546.4	12463 µg/L	12463 ppb	22:14:57
3	Na 589.592 Radial†	6401.0	5225.9	780.65 µg/L	780.65 ppb	22:14:57
3	Sr 421.552†	130795.6	131660.8	303.33 µg/L	303.33 ppb	22:14:55
3	Sc 361.383	1730825.3	1730825.3	98.618 %		22:15:47
3	Y 371.029	1170142.8	1170142.8	109.97 %		22:15:47
3	Ag 328.068†	857999.7	866574.8	3444.1 µg/L	3444.1 ppb	22:15:47
3	As 188.979†	73.4	92.1	57.796 µg/L	57.796 ppb	22:16:07
3	B 249.677†	8226.3	5111.2	83.266 µg/L	83.266 ppb	22:15:47
3	Ba 233.527†	179104.5	181776.3	790.61 µg/L	790.61 ppb	22:15:47
3	Be 313.107†	28270.4	29452.2	8.7417 µg/L	8.7417 ppb	22:15:47
3	Cd 226.502†	2509.7	2654.9	9.9660 µg/L	9.9660 ppb	22:16:07
3	Co 228.616†	1280.1	1470.5	16.709 µg/L	16.709 ppb	22:16:07
3	Cr 267.716†	98407.8	99608.1	841.46 µg/L	841.46 ppb	22:15:47
3	Cu 324.752†	60719.5	58781.3	259.25 µg/L	259.25 ppb	22:15:47
3	Mn 257.610†	2306127.8	2338265.4	3124.7 µg/L	3124.7 ppb	22:15:47
3	Mo 202.031†	71.6	107.3	6.8340 µg/L	6.8340 ppb	22:16:07
3	Ni 231.604†	3674.3	3803.7	47.842 µg/L	47.842 ppb	22:16:07
3	P 214.914†	14183.7	14377.4	3386.0 µg/L	3386.0 ppb	22:16:07
3	Pb 220.353†	3286.0	3235.1	202.14 µg/L	202.14 ppb	22:16:07
3	S 181.975 Axial†	7555.2	7573.3	6208.2 µg/L	6208.2 ppb	22:16:07
3	Sb 206.836†	171.5	95.8	-0.9196 µg/L	-0.9196 ppb	22:16:07
3	Se 196.026†	-35.1	-49.2	7.34 µg/L	7.34 ppb	22:16:07
3	SiO2†	534516.6	540253.0	57798 µg/L	57798 ppb	22:15:47
3	Si 251.611†	1640538.6	1662577.0	26911 µg/L	26911 ppb	22:15:47
3	Sn 189.927†	530.0	540.0	44.816 µg/L	44.816 ppb	22:16:07
3	Ti 334.940†	2169768.2	2199285.1	2203.5 µg/L	2203.5 ppb	22:15:47
3	Tl 190.801†	-376.9	-265.1	-3.8869 µg/L	-3.8869 ppb	22:16:07
3	U 409.014†	-5337.6	-5128.7	-304.90 µg/L	-304.90 ppb	22:15:47
3	V 292.402†	41748.3	42023.4	216.19 µg/L	216.19 ppb	22:15:47
3	Zn 213.857†	112705.8	113760.4	698.28 µg/L	698.28 ppb	22:15:47

Mean Data: 248520004|962575|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1717566.0	97.863 %	0.9780			1.00%
Sc RADIAL	147627.7	99.9 %	0.39			0.39%
Y 371.029	1161147.1	109.13 %	1.121			1.03%
Ag 328.068†	866501.4	3443.9 µg/L	6.95	3443.9 ppb	6.95	0.20%
Concentration greater than upper limit for Ag 328.068.						
Al 396.153Radial†	273259.4	56311 µg/L	829.1	56311 ppb	829.1	1.47%
As 188.979†	91.0	57.232 µg/L	1.4798	57.232 ppb	1.4798	2.59%
B 249.677†	5108.0	83.213 µg/L	2.4495	83.213 ppb	2.4495	2.94%
Ba 233.527†	181969.3	791.46 µg/L	1.745	791.46 ppb	1.745	0.22%
Be 313.107†	29471.6	8.7496 µg/L	0.05113	8.7496 ppb	0.05113	0.58%
Ca 317.933Radial†	819838.9	49328 µg/L	620.6	49328 ppb	620.6	1.26%
Cd 226.502†	2667.1	10.128 µg/L	0.1704	10.128 ppb	0.1704	1.68%
Co 228.616†	1486.6	16.967 µg/L	0.2388	16.967 ppb	0.2388	1.41%
Cr 267.716†	99610.3	841.45 µg/L	2.293	841.45 ppb	2.293	0.27%
Cu 324.752†	58823.9	259.33 µg/L	0.690	259.33 ppb	0.690	0.27%
Fe 238.204 Radial†	1159867.9	78046 µg/L	1010.3	78046 ppb	1010.3	1.29%
K 766.490 Radial†	35004.1	14383 µg/L	102.2	14383 ppb	102.2	0.71%
Mg 279.077 IEC†	30679.3	12518 µg/L	97.8	12518 ppb	97.8	0.78%
Mn 257.610†	2339204.6	3125.9 µg/L	6.18	3125.9 ppb	6.18	0.20%
Mo 202.031†	84.6	6.0827 µg/L	0.65077	6.0827 ppb	0.65077	10.70%

Na 589.592 Radial†	5307.7	793.15 µg/L	14.124	793.15 ppb	14.124	1.78%
Ni 231.604†	3855.9	48.498 µg/L	0.7094	48.498 ppb	0.7094	1.46%
P 214.914†	14543.1	3425.9 µg/L	46.97	3425.9 ppb	46.97	1.37%
Pb 220.353†	3250.8	203.08 µg/L	2.153	203.08 ppb	2.153	1.06%
S 181.975 Axial†	7658.5	6278.0 µg/L	82.40	6278.0 ppb	82.40	1.31%
Sb 206.836†	104.1	0.1739 µg/L	1.02404	0.1739 ppb	1.02404	588.93%
Se 196.026†	-59.1	3.12 µg/L	3.951	3.12 ppb	3.951	126.67%
SiO2†	540368.2	57811 µg/L	124.8	57811 ppb	124.8	0.22%
Si 251.611†	1663024.3	26918 µg/L	57.8	26918 ppb	57.8	0.21%
Sn 189.927†	542.1	44.965 µg/L	0.6137	44.965 ppb	0.6137	1.36%
Sr 421.552†	130312.3	300.22 µg/L	3.873	300.22 ppb	3.873	1.29%
Ti 334.940†	2201107.9	2205.3 µg/L	5.85	2205.3 ppb	5.85	0.27%
Tl 190.801†	-280.0	-5.8670 µg/L	1.81177	-5.8670 ppb	1.81177	30.88%
U 409.014†	-5021.6	-297.99 µg/L	8.115	-297.99 ppb	8.115	2.72%
Concentration less than lower limit for U 409.014.						
V 292.402†	42178.1	217.08 µg/L	0.941	217.08 ppb	0.941	0.43%
Zn 213.857†	113720.0	698.09 µg/L	0.730	698.09 ppb	0.730	0.10%

Sequence No.: 143

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/30/2010 22:16:16

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	153386.5	153386.5	104 %		22:16:49
1	Al 396.153Radial†	26166.3	25281.2	5186.5 µg/L	5186.5 ppb	22:16:49
1	Ca 317.933Radial†	87661.0	83787.3	5041.3 µg/L	5041.3 ppb	22:16:49
1	Fe 238.204 Radial†	77783.3	74824.8	5034.9 µg/L	5034.9 ppb	22:16:49
1	K 766.490 Radial†	14448.5	12612.3	5186.6 µg/L	5186.6 ppb	22:16:49
1	Mg 279.077 IEC†	13279.4	12629.5	5188.8 µg/L	5188.8 ppb	22:16:49
1	Na 589.592 Radial†	70102.1	66355.9	10071 µg/L	10071 ppb	22:16:49
1	Sr 421.552†	232426.3	224227.9	517.22 µg/L	517.22 ppb	22:16:47
1	Sc 361.383	1789411.9	1789411.9	101.96 %		22:17:16
1	Y 371.029	1067372.2	1067372.2	100.31 %		22:17:16
1	Ag 328.068†	131124.6	125161.6	503.79 µg/L	503.79 ppb	22:17:16
1	As 188.979†	1488.9	1478.0	522.97 µg/L	522.97 ppb	22:17:36
1	B 249.677†	34367.9	30478.1	495.18 µg/L	495.18 ppb	22:17:16
1	Ba 233.527†	117525.4	115432.5	503.02 µg/L	503.02 ppb	22:17:16
1	Be 313.107†	1725757.8	1693430.2	508.35 µg/L	508.35 ppb	22:17:16
1	Cd 226.502†	74008.2	72698.2	498.85 µg/L	498.85 ppb	22:17:16
1	Co 228.616†	37721.0	37169.6	502.98 µg/L	502.98 ppb	22:17:16
1	Cr 267.716†	60484.6	59145.5	498.22 µg/L	498.22 ppb	22:17:16
1	Cu 324.752†	123978.4	118810.6	502.21 µg/L	502.21 ppb	22:17:16
1	Mn 257.610†	383491.1	375957.2	502.29 µg/L	502.29 ppb	22:17:16
1	Mo 202.031†	15993.3	15721.1	500.54 µg/L	500.54 ppb	22:17:36
1	Ni 231.604†	40612.6	39911.2	501.99 µg/L	501.99 ppb	22:17:16
1	P 214.914†	10735.3	10524.4	2501.7 µg/L	2501.7 ppb	22:17:36
1	Pb 220.353†	8483.1	8223.4	505.11 µg/L	505.11 ppb	22:17:36
1	S 181.975 Axial†	1318.3	1205.3	992.26 µg/L	992.26 ppb	22:17:36
1	Sb 206.836†	3970.5	3816.3	501.57 µg/L	501.57 ppb	22:17:36
1	Se 196.026†	1273.6	1235.6	497 µg/L	497 ppb	22:17:36
1	SiO2†	52864.5	50097.0	5338.1 µg/L	5338.1 ppb	22:17:16
1	Si 251.611†	159097.3	155096.0	2500.4 µg/L	2500.4 ppb	22:17:16
1	Sn 189.927†	7390.1	7250.8	503.67 µg/L	503.67 ppb	22:17:36
1	Ti 334.940†	511162.0	500468.4	500.74 µg/L	500.74 ppb	22:17:16
1	Tl 190.801†	3680.1	3726.6	508.35 µg/L	508.35 ppb	22:17:36
1	U 409.014†	7417.0	7558.4	503.92 µg/L	503.92 ppb	22:17:16
1	V 292.402†	96216.0	94060.0	506.03 µg/L	506.03 ppb	22:17:16
1	Zn 213.857†	83161.9	81041.7	498.69 µg/L	498.69 ppb	22:17:16
2	Sc RADIAL	151970.3	151970.3	103 %		22:16:53
2	Al 396.153Radial†	26199.9	25549.0	5241.4 µg/L	5241.4 ppb	22:16:53
2	Ca 317.933Radial†	87623.8	84538.5	5086.5 µg/L	5086.5 ppb	22:16:53
2	Fe 238.204 Radial†	77437.6	75187.1	5059.2 µg/L	5059.2 ppb	22:16:53
2	K 766.490 Radial†	14358.5	12654.5	5203.9 µg/L	5203.9 ppb	22:16:53
2	Mg 279.077 IEC†	13165.8	12638.3	5192.5 µg/L	5192.5 ppb	22:16:53
2	Na 589.592 Radial†	69968.0	66855.1	10147 µg/L	10147 ppb	22:16:53
2	Sr 421.552†	230034.1	223988.5	516.67 µg/L	516.67 ppb	22:16:51
2	Sc 361.383	1773354.2	1773354.2	101.04 %		22:17:39
2	Y 371.029	1057681.3	1057681.3	99.402 %		22:17:39
2	Ag 328.068†	130825.7	126030.3	507.28 µg/L	507.28 ppb	22:17:39
2	As 188.979†	1499.0	1501.2	531.11 µg/L	531.11 ppb	22:17:59
2	B 249.677†	34413.4	30828.3	500.87 µg/L	500.87 ppb	22:17:39
2	Ba 233.527†	117336.6	116289.4	506.75 µg/L	506.75 ppb	22:17:39
2	Be 313.107†	1720066.1	1703124.0	511.27 µg/L	511.27 ppb	22:17:39
2	Cd 226.502†	74154.2	73500.0	504.36 µg/L	504.36 ppb	22:17:39
2	Co 228.616†	37853.2	37635.5	509.28 µg/L	509.28 ppb	22:17:39
2	Cr 267.716†	60261.5	59461.9	500.88 µg/L	500.88 ppb	22:17:39
2	Cu 324.752†	123208.7	119150.0	503.65 µg/L	503.65 ppb	22:17:39
2	Mn 257.610†	383009.1	378886.1	506.21 µg/L	506.21 ppb	22:17:39
2	Mo 202.031†	16034.3	15903.8	506.35 µg/L	506.35 ppb	22:17:59
2	Ni 231.604†	40672.3	40331.0	507.27 µg/L	507.27 ppb	22:17:39
2	P 214.914†	10800.9	10684.6	2539.9 µg/L	2539.9 ppb	22:17:59
2	Pb 220.353†	8498.0	8313.4	510.64 µg/L	510.64 ppb	22:17:59



2	S 181.975 Axial†	1332.7	1231.3	1013.6 µg/L	1013.6 ppb	22:17:59
2	Sb 206.836†	3982.8	3863.7	507.84 µg/L	507.84 ppb	22:17:59
2	Se 196.026†	1296.1	1269.2	510 µg/L	510 ppb	22:17:59
2	SiO2†	52738.1	50441.4	5374.7 µg/L	5374.7 ppb	22:17:39
2	Si 251.611†	158937.6	156350.9	2520.6 µg/L	2520.6 ppb	22:17:39
2	Sn 189.927†	7465.8	7391.4	513.41 µg/L	513.41 ppb	22:17:59
2	Ti 334.940†	509890.4	503749.7	504.02 µg/L	504.02 ppb	22:17:39
2	Tl 190.801†	3715.5	3794.2	517.48 µg/L	517.48 ppb	22:17:59
2	U 409.014†	7490.6	7697.2	512.79 µg/L	512.79 ppb	22:17:39
2	V 292.402†	95893.6	94595.5	508.94 µg/L	508.94 ppb	22:17:39
2	Zn 213.857†	82969.2	81589.5	502.05 µg/L	502.05 ppb	22:17:39
3	Sc RADIAL	151337.6	151337.6	102 %		22:16:57
3	Al 396.153Radial†	26042.6	25501.9	5231.5 µg/L	5231.5 ppb	22:16:57
3	Ca 317.933Radial†	86977.7	84263.7	5069.9 µg/L	5069.9 ppb	22:16:57
3	Fe 238.204 Radial†	77075.6	75148.4	5056.6 µg/L	5056.6 ppb	22:16:57
3	K 766.490 Radial†	14359.4	12713.8	5228.3 µg/L	5228.3 ppb	22:16:57
3	Mg 279.077 IEC†	13049.9	12578.6	5168.1 µg/L	5168.1 ppb	22:16:57
3	Na 589.592 Radial†	69668.3	66846.9	10146 µg/L	10146 ppb	22:16:57
3	Sr 421.552†	229774.6	224670.5	518.24 µg/L	518.24 ppb	22:16:55
3	Sc 361.383	1762011.3	1762011.3	100.40 %		22:18:02
3	Y 371.029	1051598.9	1051598.9	98.830 %		22:18:02
3	Ag 328.068†	129354.8	125398.7	504.75 µg/L	504.75 ppb	22:18:02
3	As 188.979†	1510.0	1521.8	538.29 µg/L	538.29 ppb	22:18:23
3	B 249.677†	33938.2	30574.3	496.74 µg/L	496.74 ppb	22:18:02
3	Ba 233.527†	116176.3	115881.3	504.98 µg/L	504.98 ppb	22:18:02
3	Be 313.107†	1701463.1	1695552.9	508.99 µg/L	508.99 ppb	22:18:02
3	Cd 226.502†	73147.3	72969.5	500.72 µg/L	500.72 ppb	22:18:02
3	Co 228.616†	37362.1	37387.5	505.93 µg/L	505.93 ppb	22:18:02
3	Cr 267.716†	59743.2	59329.6	499.77 µg/L	499.77 ppb	22:18:02
3	Cu 324.752†	122036.3	118767.1	502.02 µg/L	502.02 ppb	22:18:02
3	Mn 257.610†	379011.0	377343.9	504.15 µg/L	504.15 ppb	22:18:02
3	Mo 202.031†	16075.0	16046.5	510.89 µg/L	510.89 ppb	22:18:23
3	Ni 231.604†	40073.4	39993.6	503.03 µg/L	503.03 ppb	22:18:02
3	P 214.914†	10845.1	10797.4	2566.8 µg/L	2566.8 ppb	22:18:23
3	Pb 220.353†	8530.6	8400.0	515.96 µg/L	515.96 ppb	22:18:23
3	S 181.975 Axial†	1337.1	1244.2	1024.2 µg/L	1024.2 ppb	22:18:23
3	Sb 206.836†	4004.5	3910.7	514.09 µg/L	514.09 ppb	22:18:23
3	Se 196.026†	1294.9	1276.2	513 µg/L	513 ppb	22:18:23
3	SiO2†	52161.7	50203.3	5349.0 µg/L	5349.0 ppb	22:18:02
3	Si 251.611†	157219.9	155652.6	2509.2 µg/L	2509.2 ppb	22:18:02
3	Sn 189.927†	7461.2	7434.4	516.39 µg/L	516.39 ppb	22:18:23
3	Ti 334.940†	505177.2	502303.6	502.58 µg/L	502.58 ppb	22:18:02
3	Tl 190.801†	3735.8	3838.2	523.38 µg/L	523.38 ppb	22:18:23
3	U 409.014†	7211.5	7466.9	498.31 µg/L	498.31 ppb	22:18:02
3	V 292.402†	95154.8	94470.5	508.31 µg/L	508.31 ppb	22:18:02
3	Zn 213.857†	82153.8	81306.0	500.32 µg/L	500.32 ppb	22:18:02

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1774925.8	101.13 %	0.784			0.78%
Sc RADIAL	152231.5	103 %	0.7			0.69%
Y 371.029	1058884.2	99.515 %	0.7476			0.75%
Ag 328.068†	125530.2	505.27 µg/L	1.806	505.27 ppb	1.806	0.36%
QC value within limits for Ag 328.068 Recovery = 101.05%						
Al 396.153Radial†	25444.0	5219.8 µg/L	29.26	5219.8 ppb	29.26	0.56%
QC value within limits for Al 396.153Radial Recovery = 104.40%						
As 188.979†	1500.3	530.79 µg/L	7.665	530.79 ppb	7.665	1.44%
QC value within limits for As 188.979 Recovery = 106.16%						
B 249.677†	30626.9	497.59 µg/L	2.940	497.59 ppb	2.940	0.59%
QC value within limits for B 249.677 Recovery = 99.52%						
Ba 233.527†	115867.7	504.92 µg/L	1.868	504.92 ppb	1.868	0.37%
QC value within limits for Ba 233.527 Recovery = 100.98%						
Be 313.107†	1697369.1	509.54 µg/L	1.531	509.54 ppb	1.531	0.30%
QC value within limits for Be 313.107 Recovery = 101.91%						
Ca 317.933Radial†	84196.5	5065.9 µg/L	22.87	5065.9 ppb	22.87	0.45%
QC value within limits for Ca 317.933Radial Recovery = 101.32%						
Cd 226.502†	73055.9	501.31 µg/L	2.800	501.31 ppb	2.800	0.56%
QC value within limits for Cd 226.502 Recovery = 100.26%						
Co 228.616†	37397.6	506.06 µg/L	3.154	506.06 ppb	3.154	0.62%

Cr	267.716†	59312.3	499.62 µg/L	1.336	499.62 ppb	1.336	0.27%
Cu	324.752†	118909.2	502.63 µg/L	0.892	502.63 ppb	0.892	0.18%
Fe	238.204 Radial†	75053.4	5050.2 µg/L	13.39	5050.2 ppb	13.39	0.27%
K	766.490 Radial†	12660.2	5206.3 µg/L	20.97	5206.3 ppb	20.97	0.40%
Mg	279.077 IEC†	12615.5	5183.1 µg/L	13.13	5183.1 ppb	13.13	0.25%
Mn	257.610†	377395.8	504.21 µg/L	1.958	504.21 ppb	1.958	0.39%
Mo	202.031†	15890.5	505.92 µg/L	5.188	505.92 ppb	5.188	1.03%
Na	589.592 Radial†	66686.0	10121 µg/L	43.4	10121 ppb	43.4	0.43%
Ni	231.604†	40078.6	504.10 µg/L	2.798	504.10 ppb	2.798	0.55%
P	214.914†	10668.8	2536.2 µg/L	32.73	2536.2 ppb	32.73	1.29%
Pb	220.353†	8312.3	510.57 µg/L	5.426	510.57 ppb	5.426	1.06%
S	181.975 Axial†	1226.9	1010.0 µg/L	16.26	1010.0 ppb	16.26	1.61%
Sb	206.836†	3863.5	507.83 µg/L	6.263	507.83 ppb	6.263	1.23%
Se	196.026†	1260.3	507 µg/L	8.7	507 ppb	8.7	1.72%
SiO2†		50247.2	5353.9 µg/L	18.76	5353.9 ppb	18.76	0.35%
Si	251.611†	155699.8	2510.1 µg/L	10.11	2510.1 ppb	10.11	0.40%
Sn	189.927†	7358.8	511.16 µg/L	6.650	511.16 ppb	6.650	1.30%
Sr	421.552†	224295.6	517.38 µg/L	0.798	517.38 ppb	0.798	0.15%
Ti	334.940†	502173.9	502.44 µg/L	1.646	502.44 ppb	1.646	0.33%
Tl	190.801†	3786.3	516.40 µg/L	7.571	516.40 ppb	7.571	1.47%
U	409.014†	7574.2	505.01 µg/L	7.299	505.01 ppb	7.299	1.45%
V	292.402†	94375.3	507.76 µg/L	1.534	507.76 ppb	1.534	0.30%
Zn	213.857†	81312.4	500.35 µg/L	1.681	500.35 ppb	1.681	0.34%

QC value within limits for Co 228.616 Recovery = 101.21%  
 QC value within limits for Cr 267.716 Recovery = 99.92%  
 QC value within limits for Cu 324.752 Recovery = 100.53%  
 QC value within limits for Fe 238.204 Radial Recovery = 101.00%  
 QC value within limits for K 766.490 Radial Recovery = 104.13%  
 QC value within limits for Mg 279.077 IEC Recovery = 103.66%  
 QC value within limits for Mn 257.610 Recovery = 100.84%  
 QC value within limits for Mo 202.031 Recovery = 101.18%  
 QC value within limits for Na 589.592 Radial Recovery = 101.21%  
 QC value within limits for Ni 231.604 Recovery = 100.82%  
 QC value within limits for P 214.914 Recovery = 101.45%  
 QC value within limits for Pb 220.353 Recovery = 102.11%  
 QC value within limits for S 181.975 Axial Recovery = 101.00%  
 QC value within limits for Sb 206.836 Recovery = 101.57%  
 QC value within limits for Se 196.026 Recovery = 101.34%  
 QC value within limits for SiO2 Recovery = 100.12%  
 QC value within limits for Si 251.611 Recovery = 100.40%  
 QC value within limits for Sn 189.927 Recovery = 102.23%  
 QC value within limits for Sr 421.552 Recovery = 103.48%  
 QC value within limits for Ti 334.940 Recovery = 100.49%  
 QC value within limits for Tl 190.801 Recovery = 103.28%  
 QC value within limits for U 409.014 Recovery = 101.00%  
 QC value within limits for V 292.402 Recovery = 101.55%  
 QC value within limits for Zn 213.857 Recovery = 100.07%

All analyte(s) passed QC.

Sequence No.: 144

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/30/2010 22:18:31

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	148807.3	148807.3	101 %		22:19:00
1	Al 396.153Radial†	-37.5	25.7	5.2566 µg/L	5.2566 ppb	22:19:20
1	Ca 317.933Radial†	768.1	65.1	3.9175 µg/L	3.9175 ppb	22:19:20
1	Fe 238.204 Radial†	192.4	50.4	3.3938 µg/L	3.3938 ppb	22:19:20
1	K 766.490 Radial†	1678.8	355.0	146.09 µg/L	146.09 ppb	22:19:00
1	Mg 279.077 IEC†	177.0	7.1	2.9252 µg/L	2.9252 ppb	22:19:20
1	Na 589.592 Radial†	1381.4	165.7	25.030 µg/L	25.030 ppb	22:19:00
1	Sr 421.552†	-78.5	143.7	0.3314 µg/L	0.3314 ppb	22:19:00
1	Sc 361.383	1763258.7	1763258.7	100.47 %		22:20:08
1	Y 371.029	1064121.8	1064121.8	100.01 %		22:20:08
1	Ag 328.068†	3849.1	384.2	1.5348 µg/L	1.5348 ppb	22:20:10
1	As 188.979†	-20.4	-2.6	-0.8986 µg/L	-0.8986 ppb	22:20:30
1	B 249.677†	3299.3	53.6	0.8728 µg/L	0.8728 ppb	22:20:30
1	Ba 233.527†	-164.7	-1.8	-0.0073 µg/L	-0.0073 ppb	22:20:30
1	Be 313.107†	-908.6	-118.8	-0.0349 µg/L	-0.0349 ppb	22:20:10
1	Cd 226.502†	-100.9	9.6	0.0658 µg/L	0.0658 ppb	22:20:30
1	Co 228.616†	-147.9	25.2	0.3403 µg/L	0.3403 ppb	22:20:30
1	Cr 267.716†	172.5	-6.9	-0.0597 µg/L	-0.0597 ppb	22:20:30
1	Cu 324.752†	2888.2	85.9	0.3647 µg/L	0.3647 ppb	22:20:10
1	Mn 257.610†	285.1	108.2	0.1445 µg/L	0.1445 ppb	22:20:30
1	Mo 202.031†	-15.1	19.8	0.6292 µg/L	0.6292 ppb	22:20:30
1	Ni 231.604†	-70.1	8.1	0.1024 µg/L	0.1024 ppb	22:20:30
1	P 214.914†	5.8	0.8	0.1821 µg/L	0.1821 ppb	22:20:30
1	Pb 220.353†	79.2	-18.2	-1.1120 µg/L	-1.1120 ppb	22:20:30
1	S 181.975 Axial†	85.6	-2.5	-2.0677 µg/L	-2.0677 ppb	22:20:30
1	Sb 206.836†	88.9	10.4	1.3707 µg/L	1.3707 ppb	22:20:30
1	Se 196.026†	17.6	3.9	1.58 µg/L	1.58 ppb	22:20:30
1	SiO2†	1767.4	6.1	0.6367 µg/L	0.6367 ppb	22:20:30
1	Si 251.611†	899.6	-53.2	-0.8681 µg/L	-0.8681 ppb	22:20:30
1	Sn 189.927†	-6.1	-3.6	-0.2472 µg/L	-0.2472 ppb	22:20:30
1	Ti 334.940†	805.5	-83.8	-0.0851 µg/L	-0.0851 ppb	22:20:10
1	Tl 190.801†	-117.8	-0.2	-0.0222 µg/L	-0.0222 ppb	22:20:30
1	U 409.014†	-245.9	39.0	2.4662 µg/L	2.4662 ppb	22:20:10
1	V 292.402†	389.9	78.2	0.4230 µg/L	0.4230 ppb	22:20:10
1	Zn 213.857†	553.8	26.7	0.1641 µg/L	0.1641 ppb	22:20:30
2	Sc RADIAL	148691.1	148691.1	101 %		22:19:22
2	Al 396.153Radial†	-61.1	2.1	0.4164 µg/L	0.4164 ppb	22:19:42
2	Ca 317.933Radial†	720.6	18.4	1.1084 µg/L	1.1084 ppb	22:19:42
2	Fe 238.204 Radial†	183.6	41.9	2.8163 µg/L	2.8163 ppb	22:19:42
2	K 766.490 Radial†	1723.7	400.9	165.01 µg/L	165.01 ppb	22:19:22
2	Mg 279.077 IEC†	171.5	1.7	0.7095 µg/L	0.7095 ppb	22:19:42
2	Na 589.592 Radial†	1280.0	66.0	9.8686 µg/L	9.8686 ppb	22:19:22
2	Sr 421.552†	-205.0	17.8	0.0411 µg/L	0.0411 ppb	22:19:22
2	Sc 361.383	1770056.8	1770056.8	100.85 %		22:20:32
2	Y 371.029	1066919.4	1066919.4	100.27 %		22:20:32
2	Ag 328.068†	3825.9	346.4	1.3732 µg/L	1.3732 ppb	22:20:35
2	As 188.979†	-14.4	3.4	1.1908 µg/L	1.1908 ppb	22:20:55
2	B 249.677†	3274.2	16.1	0.2630 µg/L	0.2630 ppb	22:20:55
2	Ba 233.527†	-137.2	26.1	0.1137 µg/L	0.1137 ppb	22:20:55
2	Be 313.107†	-820.9	-28.4	-0.0086 µg/L	-0.0086 ppb	22:20:35
2	Cd 226.502†	-111.3	-0.3	-0.0024 µg/L	-0.0024 ppb	22:20:55
2	Co 228.616†	-174.0	-0.1	-0.0009 µg/L	-0.0009 ppb	22:20:55
2	Cr 267.716†	150.0	-29.8	-0.2514 µg/L	-0.2514 ppb	22:20:55
2	Cu 324.752†	2663.5	-148.0	-0.6233 µg/L	-0.6233 ppb	22:20:35
2	Mn 257.610†	265.1	87.3	0.1166 µg/L	0.1166 ppb	22:20:55
2	Mo 202.031†	-19.5	15.4	0.4893 µg/L	0.4893 ppb	22:20:55
2	Ni 231.604†	-66.6	11.9	0.1497 µg/L	0.1497 ppb	22:20:55
2	P 214.914†	-3.3	-8.3	-1.9685 µg/L	-1.9685 ppb	22:20:55
2	Pb 220.353†	74.5	-23.1	-1.4112 µg/L	-1.4112 ppb	22:20:55

2	S 181.975 Axial†	94.3	5.8	4.7628 µg/L	4.7628 ppb	22:20:55
2	Sb 206.836†	93.3	14.4	1.8971 µg/L	1.8971 ppb	22:20:55
2	Se 196.026†	12.0	-1.7	-0.663 µg/L	-0.663 ppb	22:20:55
2	SiO2†	1723.7	-44.0	-4.7329 µg/L	-4.7329 ppb	22:20:55
2	Si 251.611†	904.9	-51.4	-0.8418 µg/L	-0.8418 ppb	22:20:55
2	Sn 189.927†	5.0	7.5	0.5192 µg/L	0.5192 ppb	22:20:55
2	Ti 334.940†	821.7	-70.9	-0.0709 µg/L	-0.0709 ppb	22:20:35
2	Tl 190.801†	-105.3	12.6	1.6962 µg/L	1.6962 ppb	22:20:55
2	U 409.014†	-289.1	-2.9	-0.1964 µg/L	-0.1964 ppb	22:20:35
2	V 292.402†	257.2	-54.9	-0.2877 µg/L	-0.2877 ppb	22:20:35
2	Zn 213.857†	568.8	39.5	0.2440 µg/L	0.2440 ppb	22:20:55
3	Sc RADIAL	150016.6	150016.6	101 %		22:19:44
3	Al 396.153Radial†	-74.0	-10.1	-2.1470 µg/L	-2.1470 ppb	22:20:04
3	Ca 317.933Radial†	743.0	34.2	2.0565 µg/L	2.0565 ppb	22:20:04
3	Fe 238.204 Radial†	169.5	26.4	1.7740 µg/L	1.7740 ppb	22:20:04
3	K 766.490 Radial†	1547.6	212.3	87.354 µg/L	87.354 ppb	22:19:44
3	Mg 279.077 IEC†	175.8	4.5	1.8815 µg/L	1.8815 ppb	22:20:04
3	Na 589.592 Radial†	1364.4	137.9	20.864 µg/L	20.864 ppb	22:19:44
3	Sr 421.552†	-198.4	26.2	0.0604 µg/L	0.0604 ppb	22:19:44
3	Sc 361.383	1765298.9	1765298.9	100.58 %		22:20:57
3	Y 371.029	1065309.3	1065309.3	100.12 %		22:20:57
3	Ag 328.068†	3666.5	198.1	0.7889 µg/L	0.7889 ppb	22:20:59
3	As 188.979†	-18.2	-0.5	-0.1527 µg/L	-0.1527 ppb	22:21:19
3	B 249.677†	3274.6	25.3	0.4131 µg/L	0.4131 ppb	22:21:19
3	Ba 233.527†	-131.5	31.4	0.1372 µg/L	0.1372 ppb	22:21:19
3	Be 313.107†	-881.3	-90.7	-0.0263 µg/L	-0.0263 ppb	22:20:59
3	Cd 226.502†	-132.1	-21.3	-0.1465 µg/L	-0.1465 ppb	22:21:19
3	Co 228.616†	-172.1	1.3	0.0180 µg/L	0.0180 ppb	22:21:19
3	Cr 267.716†	176.1	-3.5	-0.0316 µg/L	-0.0316 ppb	22:21:19
3	Cu 324.752†	2976.7	170.6	0.7215 µg/L	0.7215 ppb	22:20:59
3	Mn 257.610†	273.2	96.1	0.1283 µg/L	0.1283 ppb	22:21:19
3	Mo 202.031†	14.7	49.4	1.5707 µg/L	1.5707 ppb	22:21:19
3	Ni 231.604†	-80.4	-2.0	-0.0256 µg/L	-0.0256 ppb	22:21:19
3	P 214.914†	-6.1	-11.0	-2.6575 µg/L	-2.6575 ppb	22:21:19
3	Pb 220.353†	69.4	-28.0	-1.7122 µg/L	-1.7122 ppb	22:21:19
3	S 181.975 Axial†	93.8	5.5	4.5395 µg/L	4.5395 ppb	22:21:19
3	Sb 206.836†	89.1	10.5	1.4006 µg/L	1.4006 ppb	22:21:19
3	Se 196.026†	24.3	10.6	4.25 µg/L	4.25 ppb	22:21:19
3	SiO2†	1745.8	-17.5	-1.9166 µg/L	-1.9166 ppb	22:21:19
3	Si 251.611†	864.7	-88.9	-1.4608 µg/L	-1.4608 ppb	22:21:19
3	Sn 189.927†	-1.9	0.6	0.0439 µg/L	0.0439 ppb	22:21:19
3	Ti 334.940†	785.7	-104.5	-0.1060 µg/L	-0.1060 ppb	22:20:59
3	Tl 190.801†	-105.9	11.8	1.5784 µg/L	1.5784 ppb	22:21:19
3	U 409.014†	-236.6	48.5	3.0270 µg/L	3.0270 ppb	22:20:59
3	V 292.402†	273.8	-37.7	-0.1819 µg/L	-0.1819 ppb	22:20:59
3	Zn 213.857†	543.9	16.2	0.0996 µg/L	0.0996 ppb	22:21:19

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Sc 361.383	1766204.8	100.63 %		0.199			0.20%
Sc RADIAL	149171.7	101 %		0.5			0.49%
Y 371.029	1065450.2	100.13 %		0.132			0.13%
Ag 328.068†	309.6	1.2323 µg/L		0.39244	1.2323 ppb	0.39244	31.85%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	5.9	1.1753 µg/L		3.75969	1.1753 ppb	3.75969	319.88%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	0.1	0.0465 µg/L		1.05883	0.0465 ppb	1.05883	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	31.7	0.5163 µg/L		0.31774	0.5163 ppb	0.31774	61.54%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	18.6	0.0812 µg/L		0.07752	0.0812 ppb	0.07752	95.51%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-79.3	-0.0233 µg/L		0.01343	-0.0233 ppb	0.01343	57.73%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	39.2	2.3608 µg/L		1.42904	2.3608 ppb	1.42904	60.53%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	-4.0	-0.0277 µg/L		0.10838	-0.0277 ppb	0.10838	391.34%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	8.8	0.1191 µg/L		0.19179	0.1191 ppb	0.19179	160.98%

Cr	267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
		-13.4	-0.1142 µg/L	0.11961	-0.1142 ppb	0.11961 104.70%
Cu	324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
		36.2	0.1543 µg/L	0.69664	0.1543 ppb	0.69664 451.47%
Fe	238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
		39.6	2.6614 µg/L	0.82094	2.6614 ppb	0.82094 30.85%
K	766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
		322.7	132.82 µg/L	40.494	132.82 ppb	40.494 30.49%
Mg	279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
		4.4	1.8388 µg/L	1.10847	1.8388 ppb	1.10847 60.28%
Mn	257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
		97.2	0.1298 µg/L	0.01400	0.1298 ppb	0.01400 10.79%
Mo	202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
		28.2	0.8964 µg/L	0.58814	0.8964 ppb	0.58814 65.61%
Na	589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
		123.2	18.587 µg/L	7.8328	18.587 ppb	7.8328 42.14%
Ni	231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
		6.0	0.0755 µg/L	0.09068	0.0755 ppb	0.09068 120.13%
P	214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
		-6.2	-1.4813 µg/L	1.48120	-1.4813 ppb	1.48120 99.99%
Pb	220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
		-23.1	-1.4118 µg/L	0.30012	-1.4118 ppb	0.30012 21.26%
S	181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
		2.9	2.4115 µg/L	3.88076	2.4115 ppb	3.88076 160.93%
Sb	206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
		11.8	1.5561 µg/L	0.29567	1.5561 ppb	0.29567 19.00%
Se	196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
		4.3	1.72 µg/L	2.457	1.72 ppb	2.457 142.67%
SiO2†		QC value within limits for Se 196.026	Recovery = Not calculated			
		-18.5	-2.0043 µg/L	2.68585	-2.0043 ppb	2.68585 134.00%
Si	251.611†	QC value within limits for SiO2	Recovery = Not calculated			
		-64.5	-1.0569 µg/L	0.35003	-1.0569 ppb	0.35003 33.12%
Sn	189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
		1.5	0.1053 µg/L	0.38689	0.1053 ppb	0.38689 367.51%
Sr	421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
		62.6	0.1443 µg/L	0.16231	0.1443 ppb	0.16231 112.50%
Ti	334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
		-86.4	-0.0873 µg/L	0.01768	-0.0873 ppb	0.01768 20.25%
Tl	190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
		8.1	1.0841 µg/L	0.95989	1.0841 ppb	0.95989 88.54%
U	409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
		28.2	1.7656 µg/L	1.72212	1.7656 ppb	1.72212 97.54%
V	292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
		-4.8	-0.0155 µg/L	0.38343	-0.0155 ppb	0.38343 >999.9%
Zn	213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
		27.4	0.1693 µg/L	0.07234	0.1693 ppb	0.07234 42.74%
		QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 145

Sample ID: 248520005|962575|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 327

Date Collected: 3/30/2010 22:21:27

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248520005|962575|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	151980.5	151980.5	103 %		22:22:01
1	Al 396.153Radial†	215695.6	209867.6	43248 µg/L	43248 ppb	22:21:59
1	Ca 317.933Radial†	211684.3	205205.1	12347 µg/L	12347 ppb	22:22:01
1	Fe 238.204 Radial†	1501755.5	1460600.7	98282 µg/L	98282 ppb	22:21:59
1	K 766.490 Radial†	22015.7	20101.6	8260.3 µg/L	8260.3 ppb	22:22:01
1	Mg 279.077 IEC†	22105.3	21332.8	8666.8 µg/L	8666.8 ppb	22:22:01
1	Na 589.592 Radial†	5314.4	3962.6	594.36 µg/L	594.36 ppb	22:22:01
1	Sr 421.552†	53730.8	52485.0	120.98 µg/L	120.98 ppb	22:22:01
1	Sc 361.383	1780470.8	1780470.8	101.45 %		22:22:13
1	Y 371.029	1258069.8	1258069.8	118.23 %		22:22:13
1	Ag 328.068†	3660.3	161.0	-0.2365 µg/L	-0.2365 ppb	22:22:13
1	As 188.979†	22.4	39.8	36.298 µg/L	36.298 ppb	22:22:34
1	B 249.677†	4334.0	1041.8	16.882 µg/L	16.882 ppb	22:22:13
1	Ba 233.527†	132707.1	130976.5	569.11 µg/L	569.11 ppb	22:22:13
1	Be 313.107†	37384.0	37636.4	11.175 µg/L	11.175 ppb	22:22:13
1	Cd 226.502†	1394.6	1484.7	-0.1187 µg/L	-0.1187 ppb	22:22:34
1	Co 228.616†	2090.7	2233.3	25.643 µg/L	25.643 ppb	22:22:34
1	Cr 267.716†	4731.1	4485.0	40.593 µg/L	40.593 ppb	22:22:34
1	Cu 324.752†	7817.3	4916.8	34.958 µg/L	34.958 ppb	22:22:13
1	Mn 257.610†	2639770.9	2601946.3	3477.2 µg/L	3477.2 ppb	22:22:13
1	Mo 202.031†	-5.4	29.4	5.0256 µg/L	5.0256 ppb	22:22:34
1	Ni 231.604†	3689.6	3714.9	46.725 µg/L	46.725 ppb	22:22:34
1	P 214.914†	4754.8	4682.0	1059.3 µg/L	1059.3 ppb	22:22:34
1	Pb 220.353†	1171.7	1058.1	68.373 µg/L	68.373 ppb	22:22:34
1	S 181.975 Axial†	536.5	441.1	361.60 µg/L	361.60 ppb	22:22:34
1	Sb 206.836†	72.5	-6.6	-2.7342 µg/L	-2.7342 ppb	22:22:34
1	Se 196.026†	-67.4	-80.0	1.71 µg/L	1.71 ppb	22:22:34
1	SiO2†	713610.6	701679.8	75069 µg/L	75069 ppb	22:22:13
1	Si 251.611†	2181159.5	2149102.7	34786 µg/L	34786 ppb	22:22:13
1	Sn 189.927†	5.6	8.0	10.200 µg/L	10.200 ppb	22:22:34
1	Ti 334.940†	2896961.8	2854759.2	2859.8 µg/L	2859.8 ppb	22:22:13
1	Tl 190.801†	-440.5	-317.1	-4.1339 µg/L	-4.1339 ppb	22:22:34
1	U 409.014†	-6717.4	-6337.8	-388.93 µg/L	-388.93 ppb	22:22:13
1	V 292.402†	24727.3	24064.8	114.65 µg/L	114.65 ppb	22:22:13
1	Zn 213.857†	64363.7	62921.2	381.56 µg/L	381.56 ppb	22:22:13
2	Sc RADIAL	152717.7	152717.7	103 %		22:22:05
2	Al 396.153Radial†	217128.4	210241.9	43325 µg/L	43325 ppb	22:22:03
2	Ca 317.933Radial†	210417.9	202985.3	12213 µg/L	12213 ppb	22:22:05
2	Fe 238.204 Radial†	1509896.7	1461430.7	98338 µg/L	98338 ppb	22:22:03
2	K 766.490 Radial†	21917.9	19903.5	8178.8 µg/L	8178.8 ppb	22:22:05
2	Mg 279.077 IEC†	21895.9	21026.3	8541.1 µg/L	8541.1 ppb	22:22:05
2	Na 589.592 Radial†	5147.8	3776.4	566.15 µg/L	566.15 ppb	22:22:05
2	Sr 421.552†	53459.9	51970.6	119.79 µg/L	119.79 ppb	22:22:05
2	Sc 361.383	1785789.1	1785789.1	101.75 %		22:22:36
2	Y 371.029	1261775.8	1261775.8	118.58 %		22:22:36
2	Ag 328.068†	3410.0	-95.7	-1.2941 µg/L	-1.2941 ppb	22:22:36
2	As 188.979†	20.8	38.1	35.725 µg/L	35.725 ppb	22:22:56
2	B 249.677†	4329.5	1024.7	16.602 µg/L	16.602 ppb	22:22:36
2	Ba 233.527†	132669.7	130550.2	567.25 µg/L	567.25 ppb	22:22:36
2	Be 313.107†	37364.0	37507.0	11.131 µg/L	11.131 ppb	22:22:36
2	Cd 226.502†	1364.5	1451.0	-0.3560 µg/L	-0.3560 ppb	22:22:56
2	Co 228.616†	2083.3	2219.9	25.457 µg/L	25.457 ppb	22:22:56
2	Cr 267.716†	4706.2	4446.7	40.287 µg/L	40.287 ppb	22:22:56
2	Cu 324.752†	7910.9	4985.9	35.241 µg/L	35.241 ppb	22:22:36
2	Mn 257.610†	2640146.7	2594566.2	3467.3 µg/L	3467.3 ppb	22:22:36
2	Mo 202.031†	4.9	39.6	5.3484 µg/L	5.3484 ppb	22:22:56
2	Ni 231.604†	3718.3	3732.3	46.943 µg/L	46.943 ppb	22:22:56
2	P 214.914†	4758.7	4671.8	1056.8 µg/L	1056.8 ppb	22:22:56
2	Pb 220.353†	1173.4	1056.3	68.273 µg/L	68.273 ppb	22:22:56

2	S 181.975 Axial†	531.9	435.0	356.62 µg/L	356.62 ppb	22:22:56
2	Sb 206.836†	62.0	-17.2	-4.1166 µg/L	-4.1166 ppb	22:22:56
2	Se 196.026†	-53.2	-65.9	7.36 µg/L	7.36 ppb	22:22:56
2	SiO2†	714009.9	699977.3	74887 µg/L	74887 ppb	22:22:36
2	Si 251.611†	2183456.8	2144957.4	34719 µg/L	34719 ppb	22:22:36
2	Sn 189.927†	9.7	12.1	10.464 µg/L	10.464 ppb	22:22:56
2	Ti 334.940†	2899948.6	2849190.1	2854.2 µg/L	2854.2 ppb	22:22:36
2	Tl 190.801†	-464.6	-339.5	-7.2406 µg/L	-7.2406 ppb	22:22:56
2	U 409.014†	-6997.4	-6593.3	-405.13 µg/L	-405.13 ppb	22:22:36
2	V 292.402†	24428.6	23698.7	112.70 µg/L	112.70 ppb	22:22:36
2	Zn 213.857†	64598.5	62963.0	381.82 µg/L	381.82 ppb	22:22:36
3	Sc RADIAL	155535.6	155535.6	105 %		22:22:09
3	Al 396.153Radial†	216270.1	205618.2	42372 µg/L	42372 ppb	22:22:07
3	Ca 317.933Radial†	213941.2	202643.8	12193 µg/L	12193 ppb	22:22:09
3	Fe 238.204 Radial†	1503404.5	1428779.7	96141 µg/L	96141 ppb	22:22:07
3	K 766.490 Radial†	22303.4	19885.6	8171.7 µg/L	8171.7 ppb	22:22:09
3	Mg 279.077 IEC†	22369.3	21092.3	8570.0 µg/L	8570.0 ppb	22:22:09
3	Na 589.592 Radial†	5230.9	3765.1	564.45 µg/L	564.45 ppb	22:22:09
3	Sr 421.552†	54024.2	51569.3	118.87 µg/L	118.87 ppb	22:22:09
3	Sc 361.383	1761931.6	1761931.6	100.39 %		22:22:59
3	Y 371.029	1245852.3	1245852.3	117.09 %		22:22:59
3	Ag 328.068†	3510.5	49.7	-0.6799 µg/L	-0.6799 ppb	22:22:59
3	As 188.979†	25.6	43.1	36.992 µg/L	36.992 ppb	22:23:19
3	B 249.677†	4115.9	869.6	14.070 µg/L	14.070 ppb	22:22:59
3	Ba 233.527†	131593.2	131243.4	570.30 µg/L	570.30 ppb	22:22:59
3	Be 313.107†	37151.3	37792.4	11.217 µg/L	11.217 ppb	22:22:59
3	Cd 226.502†	1401.7	1506.3	0.2551 µg/L	0.2551 ppb	22:23:19
3	Co 228.616†	2125.7	2289.9	26.521 µg/L	26.521 ppb	22:23:19
3	Cr 267.716†	4797.6	4600.3	41.501 µg/L	41.501 ppb	22:23:19
3	Cu 324.752†	7743.6	4924.5	34.664 µg/L	34.664 ppb	22:22:59
3	Mn 257.610†	2618746.9	2608384.0	3485.8 µg/L	3485.8 ppb	22:22:59
3	Mo 202.031†	5.4	40.1	5.2799 µg/L	5.2799 ppb	22:23:19
3	Ni 231.604†	3753.7	3817.0	48.009 µg/L	48.009 ppb	22:23:19
3	P 214.914†	4813.4	4789.7	1086.2 µg/L	1086.2 ppb	22:23:19
3	Pb 220.353†	1181.5	1079.9	69.748 µg/L	69.748 ppb	22:23:19
3	S 181.975 Axial†	541.3	451.5	370.12 µg/L	370.12 ppb	22:23:19
3	Sb 206.836†	67.8	-10.5	-3.2210 µg/L	-3.2210 ppb	22:23:19
3	Se 196.026†	-76.0	-89.2	-2.76 µg/L	-2.76 ppb	22:23:19
3	SiO2†	707625.1	703119.2	75223 µg/L	75223 ppb	22:22:59
3	Si 251.611†	2163980.3	2154613.4	34875 µg/L	34875 ppb	22:22:59
3	Sn 189.927†	18.1	20.6	11.103 µg/L	11.103 ppb	22:23:19
3	Ti 334.940†	2876327.1	2864252.2	2869.3 µg/L	2869.3 ppb	22:22:59
3	Tl 190.801†	-449.1	-330.3	-5.7871 µg/L	-5.7871 ppb	22:23:19
3	U 409.014†	-6882.6	-6572.1	-403.06 µg/L	-403.06 ppb	22:22:59
3	V 292.402†	24498.5	24093.4	115.02 µg/L	115.02 ppb	22:22:59
3	Zn 213.857†	63932.6	63159.4	383.25 µg/L	383.25 ppb	22:22:59

Mean Data: 248520005|962575|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1776063.8	101.20 %	0.714			0.71%
Sc RADIAL	153411.3	104 %	1.3			1.22%
Y 371.029	1255232.6	117.97 %	0.783			0.66%
Ag 328.068†	38.4	-0.7368 µg/L	0.53107	-0.7368 ppb	0.53107	72.07%
Al 396.153Radial†	208575.9	42981 µg/L	529.3	42981 ppb	529.3	1.23%
As 188.979†	40.4	36.338 µg/L	0.6347	36.338 ppb	0.6347	1.75%
B 249.677†	978.7	15.851 µg/L	1.5490	15.851 ppb	1.5490	9.77%
Ba 233.527†	130923.4	568.89 µg/L	1.536	568.89 ppb	1.536	0.27%
Be 313.107†	37645.3	11.175 µg/L	0.0430	11.175 ppb	0.0430	0.39%
Ca 317.933Radial†	203611.4	12251 µg/L	83.7	12251 ppb	83.7	0.68%
Cd 226.502†	1480.7	-0.0732 µg/L	0.30806	-0.0732 ppb	0.30806	421.01%
Co 228.616†	2247.7	25.874 µg/L	0.5681	25.874 ppb	0.5681	2.20%
Cr 267.716†	4510.7	40.794 µg/L	0.6313	40.794 ppb	0.6313	1.55%
Cu 324.752†	4942.4	34.955 µg/L	0.2883	34.955 ppb	0.2883	0.82%
Fe 238.204 Radial†	1450270.4	97587 µg/L	1252.7	97587 ppb	1252.7	1.28%
K 766.490 Radial†	19963.6	8203.6 µg/L	49.25	8203.6 ppb	49.25	0.60%
Mg 279.077 IEC†	21150.5	8592.6 µg/L	65.86	8592.6 ppb	65.86	0.77%
Mn 257.610†	2601632.2	3476.8 µg/L	9.24	3476.8 ppb	9.24	0.27%
Mo 202.031†	36.4	5.2179 µg/L	0.17009	5.2179 ppb	0.17009	3.26%
Na 589.592 Radial†	3834.7	574.99 µg/L	16.797	574.99 ppb	16.797	2.92%

Ni 231.604†	3754.7	47.226 µg/L	0.6873	47.226 ppb	0.6873	1.46%
P 214.914†	4714.5	1067.5 µg/L	16.32	1067.5 ppb	16.32	1.53%
Pb 220.353†	1064.8	68.798 µg/L	0.8245	68.798 ppb	0.8245	1.20%
S 181.975 Axial†	442.5	362.78 µg/L	6.828	362.78 ppb	6.828	1.88%
Sb 206.836†	-11.4	-3.3573 µg/L	0.70121	-3.3573 ppb	0.70121	20.89%
Se 196.026†	-78.4	2.10 µg/L	5.073	2.10 ppb	5.073	241.63%
SiO2†	701592.1	75060 µg/L	168.3	75060 ppb	168.3	0.22%
Si 251.611†	2149557.8	34793 µg/L	78.4	34793 ppb	78.4	0.23%
Sn 189.927†	13.6	10.589 µg/L	0.4641	10.589 ppb	0.4641	4.38%
Sr 421.552†	52008.3	119.88 µg/L	1.058	119.88 ppb	1.058	0.88%
Ti 334.940†	2856067.1	2861.1 µg/L	7.63	2861.1 ppb	7.63	0.27%
Tl 190.801†	-329.0	-5.7206 µg/L	1.55441	-5.7206 ppb	1.55441	27.17%
U 409.014†	-6501.1	-399.04 µg/L	8.815	-399.04 ppb	8.815	2.21%
Concentration less than lower limit for U 409.014.						
V 292.402†	23952.3	114.12 µg/L	1.247	114.12 ppb	1.247	1.09%
Zn 213.857†	63014.5	382.21 µg/L	0.910	382.21 ppb	0.910	0.24%



Sequence No.: 146

Sample ID: 248520006|962575|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 328

Date Collected: 3/30/2010 22:23:28

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248520006|962575|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	150638.6	150638.6	102 %		22:24:01
1	Al 396.153Radial†	229574.1	225356.4	46439 µg/L	46439 ppb	22:23:58
1	Ca 317.933Radial†	330910.0	324041.9	19497 µg/L	19497 ppb	22:24:01
1	Fe 238.204 Radial†	1486691.7	1458830.3	98163 µg/L	98163 ppb	22:23:58
1	K 766.490 Radial†	26224.3	24422.5	10036 µg/L	10036 ppb	22:24:01
1	Mg 279.077 IEC†	25601.0	24954.9	10153 µg/L	10153 ppb	22:24:01
1	Na 589.592 Radial†	5450.9	4142.6	620.11 µg/L	620.11 ppb	22:24:01
1	Sr 421.552†	66494.4	65476.2	150.89 µg/L	150.89 ppb	22:24:01
1	Sc 361.383	1756371.4	1756371.4	100.07 %		22:24:27
1	Y 371.029	1279637.3	1279637.3	120.26 %		22:24:27
1	Ag 328.068†	11684.9	8229.2	31.000 µg/L	31.000 ppb	22:24:27
1	As 188.979†	32.6	50.3	40.605 µg/L	40.605 ppb	22:24:47
1	B 249.677†	4883.9	1649.9	26.787 µg/L	26.787 ppb	22:24:27
1	Ba 233.527†	160332.7	160376.7	697.12 µg/L	697.12 ppb	22:24:27
1	Be 313.107†	34963.0	35722.8	10.574 µg/L	10.574 ppb	22:24:27
1	Cd 226.502†	1463.0	1571.9	0.5119 µg/L	0.5119 ppb	22:24:47
1	Co 228.616†	2264.8	2435.6	28.524 µg/L	28.524 ppb	22:24:47
1	Cr 267.716†	13147.3	12959.1	111.62 µg/L	111.62 ppb	22:24:47
1	Cu 324.752†	12988.4	10189.9	57.130 µg/L	57.130 ppb	22:24:27
1	Mn 257.610†	3864307.6	3861284.9	5160.4 µg/L	5160.4 ppb	22:24:27
1	Mo 202.031†	35.2	69.9	6.3336 µg/L	6.3336 ppb	22:24:47
1	Ni 231.604†	6828.5	6901.4	86.804 µg/L	86.804 ppb	22:24:47
1	P 214.914†	4962.6	4953.9	1124.7 µg/L	1124.7 ppb	22:24:47
1	Pb 220.353†	1639.8	1541.6	98.196 µg/L	98.196 ppb	22:24:47
1	S 181.975 Axial†	1121.1	1032.6	846.45 µg/L	846.45 ppb	22:24:47
1	Sb 206.836†	80.2	2.1	-2.6704 µg/L	-2.6704 ppb	22:24:47
1	Se 196.026†	-69.4	-82.9	0.387 µg/L	0.387 ppb	22:24:47
1	SiO2†	695655.4	693389.7	74182 µg/L	74182 ppb	22:24:27
1	Si 251.611†	2128460.7	2125943.8	34411 µg/L	34411 ppb	22:24:27
1	Sn 189.927†	61.0	63.5	13.939 µg/L	13.939 ppb	22:24:47
1	Ti 334.940†	2827161.5	2824193.0	2829.2 µg/L	2829.2 ppb	22:24:27
1	Tl 190.801†	-487.0	-369.5	-7.2017 µg/L	-7.2017 ppb	22:24:47
1	U 409.014†	-8016.2	-7726.5	-465.12 µg/L	-465.12 ppb	22:24:27
1	V 292.402†	23172.9	22846.0	108.48 µg/L	108.48 ppb	22:24:27
1	Zn 213.857†	77564.7	76983.0	468.37 µg/L	468.37 ppb	22:24:27
2	Sc RADIAL	151154.7	151154.7	102 %		22:24:05
2	Al 396.153Radial†	228762.6	223793.5	46117 µg/L	46117 ppb	22:24:03
2	Ca 317.933Radial†	332595.9	324581.9	19529 µg/L	19529 ppb	22:24:05
2	Fe 238.204 Radial†	1478962.7	1446289.7	97319 µg/L	97319 ppb	22:24:03
2	K 766.490 Radial†	26512.2	24616.2	10116 µg/L	10116 ppb	22:24:05
2	Mg 279.077 IEC†	25932.5	25193.3	10251 µg/L	10251 ppb	22:24:05
2	Na 589.592 Radial†	5695.8	4363.9	653.64 µg/L	653.64 ppb	22:24:05
2	Sr 421.552†	66778.0	65530.8	151.02 µg/L	151.02 ppb	22:24:05
2	Sc 361.383	1750777.7	1750777.7	99.755 %		22:24:50
2	Y 371.029	1275965.8	1275965.8	119.92 %		22:24:50
2	Ag 328.068†	11682.5	8264.1	31.114 µg/L	31.114 ppb	22:24:50
2	As 188.979†	28.6	46.3	39.049 µg/L	39.049 ppb	22:25:10
2	B 249.677†	4954.0	1735.8	28.188 µg/L	28.188 ppb	22:24:50
2	Ba 233.527†	160049.7	160604.9	698.12 µg/L	698.12 ppb	22:24:50
2	Be 313.107†	34864.4	35735.6	10.571 µg/L	10.571 ppb	22:24:50
2	Cd 226.502†	1452.5	1566.1	0.5607 µg/L	0.5607 ppb	22:25:10
2	Co 228.616†	2229.4	2407.3	28.186 µg/L	28.186 ppb	22:25:10
2	Cr 267.716†	13095.2	12948.7	111.52 µg/L	111.52 ppb	22:25:10
2	Cu 324.752†	12983.1	10226.0	57.142 µg/L	57.142 ppb	22:24:50
2	Mn 257.610†	3851655.3	3860938.7	5159.9 µg/L	5159.9 ppb	22:24:50
2	Mo 202.031†	46.7	81.5	6.6716 µg/L	6.6716 ppb	22:25:10
2	Ni 231.604†	6799.0	6893.5	86.705 µg/L	86.705 ppb	22:25:10
2	P 214.914†	4957.0	4964.2	1127.7 µg/L	1127.7 ppb	22:25:10
2	Pb 220.353†	1616.3	1523.3	97.109 µg/L	97.109 ppb	22:25:10

2	S 181.975 Axial†	1117.7	1032.8	846.63 µg/L	846.63 ppb	22:25:10
2	Sb 206.836†	80.8	2.9	-2.5458 µg/L	-2.5458 ppb	22:25:10
2	Se 196.026†	-69.2	-82.9	0.077 µg/L	0.077 ppb	22:25:10
2	SiO2†	693433.0	693382.8	74182 µg/L	74182 ppb	22:24:50
2	Si 251.611†	2122259.3	2126522.5	34420 µg/L	34420 ppb	22:24:50
2	Sn 189.927†	61.2	63.9	13.976 µg/L	13.976 ppb	22:25:10
2	Ti 334.940†	2820500.2	2826541.3	2831.6 µg/L	2831.6 ppb	22:24:50
2	Tl 190.801†	-474.5	-358.6	-5.7056 µg/L	-5.7056 ppb	22:25:10
2	U 409.014†	-8373.5	-8110.4	-488.97 µg/L	-488.97 ppb	22:24:50
2	V 292.402†	23108.7	22855.7	108.61 µg/L	108.61 ppb	22:24:50
2	Zn 213.857†	77561.9	77227.8	469.97 µg/L	469.97 ppb	22:24:50
3	Sc RADIAL	154986.0	154986.0	105 %		22:24:09
3	Al 396.153Radial†	225949.6	215579.7	44425 µg/L	44425 ppb	22:24:07
3	Ca 317.933Radial†	337065.6	320804.4	19302 µg/L	19302 ppb	22:24:09
3	Fe 238.204 Radial†	1455298.5	1387962.7	93394 µg/L	93394 ppb	22:24:07
3	K 766.490 Radial†	26976.5	24418.1	10035 µg/L	10035 ppb	22:24:09
3	Mg 279.077 IEC†	26221.2	24841.7	10110 µg/L	10110 ppb	22:24:09
3	Na 589.592 Radial†	5672.2	4203.6	629.37 µg/L	629.37 ppb	22:24:09
3	Sr 421.552†	67665.6	64762.9	149.25 µg/L	149.25 ppb	22:24:09
3	Sc 361.383	1746637.6	1746637.6	99.519 %		22:25:13
3	Y 371.029	1273241.6	1273241.6	119.66 %		22:25:13
3	Ag 328.068†	11603.0	8211.9	30.937 µg/L	30.937 ppb	22:25:13
3	As 188.979†	21.3	39.0	35.620 µg/L	35.620 ppb	22:25:33
3	B 249.677†	4794.9	1587.7	25.772 µg/L	25.772 ppb	22:25:13
3	Ba 233.527†	159464.2	160396.9	697.27 µg/L	697.27 ppb	22:25:13
3	Be 313.107†	34829.6	35783.5	10.586 µg/L	10.586 ppb	22:25:13
3	Cd 226.502†	1439.5	1556.4	0.9072 µg/L	0.9072 ppb	22:25:33
3	Co 228.616†	2256.6	2439.9	28.831 µg/L	28.831 ppb	22:25:33
3	Cr 267.716†	13102.5	12987.2	111.71 µg/L	111.71 ppb	22:25:33
3	Cu 324.752†	12974.9	10248.6	56.664 µg/L	56.664 ppb	22:25:13
3	Mn 257.610†	3838625.9	3856998.5	5154.7 µg/L	5154.7 ppb	22:25:13
3	Mo 202.031†	34.2	69.1	6.1195 µg/L	6.1195 ppb	22:25:33
3	Ni 231.604†	6806.2	6917.0	87.000 µg/L	87.000 ppb	22:25:33
3	P 214.914†	4964.6	4983.6	1134.6 µg/L	1134.6 ppb	22:25:33
3	Pb 220.353†	1588.8	1499.5	95.664 µg/L	95.664 ppb	22:25:33
3	S 181.975 Axial†	1122.2	1039.9	852.48 µg/L	852.48 ppb	22:25:33
3	Sb 206.836†	84.5	6.8	-1.9855 µg/L	-1.9855 ppb	22:25:33
3	Se 196.026†	-69.8	-83.7	-1.58 µg/L	-1.58 ppb	22:25:33
3	SiO2†	692333.6	693925.8	74240 µg/L	74240 ppb	22:25:13
3	Si 251.611†	2116252.2	2125529.2	34404 µg/L	34404 ppb	22:25:13
3	Sn 189.927†	73.2	76.1	14.807 µg/L	14.807 ppb	22:25:33
3	Ti 334.940†	2810887.4	2823584.0	2828.6 µg/L	2828.6 ppb	22:25:13
3	Tl 190.801†	-492.4	-377.7	-8.3199 µg/L	-8.3199 ppb	22:25:33
3	U 409.014†	-8311.1	-8067.5	-485.46 µg/L	-485.46 ppb	22:25:13
3	V 292.402†	22969.8	22770.9	108.57 µg/L	108.57 ppb	22:25:13
3	Zn 213.857†	77200.0	77048.4	469.24 µg/L	469.24 ppb	22:25:13

Mean Data: 248520006|962575|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1751262.3	99.783 %	0.2783			0.28%
Sc RADIAL	152259.8	103 %	1.6			1.56%
Y 371.029	1276281.6	119.95 %	0.302			0.25%
Ag 328.068†	8235.1	31.017 µg/L	0.0898	31.017 ppb	0.0898	0.29%
Al 396.153Radial†	221576.5	45660 µg/L	1082.2	45660 ppb	1082.2	2.37%
As 188.979†	45.2	38.425 µg/L	2.5507	38.425 ppb	2.5507	6.64%
B 249.677†	1657.8	26.916 µg/L	1.2130	26.916 ppb	1.2130	4.51%
Ba 233.527†	160459.5	697.50 µg/L	0.542	697.50 ppb	0.542	0.08%
Be 313.107†	35747.3	10.577 µg/L	0.0080	10.577 ppb	0.0080	0.08%
Ca 317.933Radial†	323142.7	19443 µg/L	122.9	19443 ppb	122.9	0.63%
Cd 226.502†	1564.8	0.6600 µg/L	0.21549	0.6600 ppb	0.21549	32.65%
Co 228.616†	2427.6	28.514 µg/L	0.3227	28.514 ppb	0.3227	1.13%
Cr 267.716†	12965.0	111.62 µg/L	0.094	111.62 ppb	0.094	0.08%
Cu 324.752†	10221.5	56.979 µg/L	0.2725	56.979 ppb	0.2725	0.48%
Fe 238.204 Radial†	1431027.6	96292 µg/L	2544.8	96292 ppb	2544.8	2.64%
K 766.490 Radial†	24485.6	10063 µg/L	46.4	10063 ppb	46.4	0.46%
Mg 279.077 IEC†	24996.6	10172 µg/L	72.3	10172 ppb	72.3	0.71%
Mn 257.610†	3859740.7	5158.3 µg/L	3.17	5158.3 ppb	3.17	0.06%
Mo 202.031†	73.5	6.3749 µg/L	0.27833	6.3749 ppb	0.27833	4.37%
Na 589.592 Radial†	4236.7	634.37 µg/L	17.313	634.37 ppb	17.313	2.73%

Ni 231.604†	6904.0	86.837 µg/L	0.1503	86.837 ppb	0.1503	0.17%
P 214.914†	4967.2	1129.0 µg/L	5.07	1129.0 ppb	5.07	0.45%
Pb 220.353†	1521.5	96.990 µg/L	1.2705	96.990 ppb	1.2705	1.31%
S 181.975 Axial†	1035.1	848.52 µg/L	3.433	848.52 ppb	3.433	0.40%
Sb 206.836†	3.9	-2.4006 µg/L	0.36486	-2.4006 ppb	0.36486	15.20%
Se 196.026†	-83.2	-0.371 µg/L	1.0560	-0.371 ppb	1.0560	284.64%
SiO2†	693566.1	74201 µg/L	33.3	74201 ppb	33.3	0.04%
Si 251.611†	2125998.5	34412 µg/L	8.1	34412 ppb	8.1	0.02%
Sn 189.927†	67.8	14.241 µg/L	0.4910	14.241 ppb	0.4910	3.45%
Sr 421.552†	65256.6	150.39 µg/L	0.987	150.39 ppb	0.987	0.66%
Ti 334.940†	2824772.7	2829.8 µg/L	1.56	2829.8 ppb	1.56	0.06%
Tl 190.801†	-368.6	-7.0757 µg/L	1.31167	-7.0757 ppb	1.31167	18.54%
U 409.014†	-7968.1	-479.85 µg/L	12.876	-479.85 ppb	12.876	2.68%
Concentration less than lower limit for U 409.014.						
V 292.402†	22824.2	108.55 µg/L	0.065	108.55 ppb	0.065	0.06%
Zn 213.857†	77086.4	469.19 µg/L	0.803	469.19 ppb	0.803	0.17%

Sequence No.: 147

Sample ID: 248520007|962575|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 329

Date Collected: 3/30/2010 22:25:42

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248520007|962575|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	144566.5	144566.5	97.8 %		22:26:14
1	Al 396.153Radial†	181226.2	185380.0	38201 µg/L	38201 ppb	22:26:14
1	Ca 317.933Radial†	453396.6	462933.4	27854 µg/L	27854 ppb	22:26:12
1	Fe 238.204 Radial†	976929.5	998841.5	67211 µg/L	67211 ppb	22:26:12
1	K 766.490 Radial†	23205.0	22416.0	9211.0 µg/L	9211.0 ppb	22:26:14
1	Mg 279.077 IEC†	20963.5	21268.0	8666.9 µg/L	8666.9 ppb	22:26:14
1	Na 589.592 Radial†	4662.0	3560.6	532.46 µg/L	532.46 ppb	22:26:14
1	Sr 421.552†	82142.9	84218.8	194.06 µg/L	194.06 ppb	22:26:14
1	Sc 361.383	1677072.5	1677072.5	95.555 %		22:26:27
1	Y 371.029	1142917.1	1142917.1	107.41 %		22:26:27
1	Ag 328.068†	13364.9	10539.4	40.131 µg/L	40.131 ppb	22:26:27
1	As 188.979†	21.5	40.2	29.762 µg/L	29.762 ppb	22:26:47
1	B 249.677†	5561.0	2589.3	42.137 µg/L	42.137 ppb	22:26:27
1	Ba 233.527†	172208.7	180380.7	784.60 µg/L	784.60 ppb	22:26:27
1	Be 313.107†	22559.6	24394.5	7.2256 µg/L	7.2256 ppb	22:26:27
1	Cd 226.502†	1021.0	1178.5	1.0499 µg/L	1.0499 ppb	22:26:47
1	Co 228.616†	1452.8	1692.8	20.172 µg/L	20.172 ppb	22:26:47
1	Cr 267.716†	7996.8	8190.2	70.360 µg/L	70.360 ppb	22:26:47
1	Cu 324.752†	15156.9	13072.9	64.863 µg/L	64.863 ppb	22:26:27
1	Mn 257.610†	3337190.2	3492235.7	4667.3 µg/L	4667.3 ppb	22:26:27
1	Mo 202.031†	-19.7	14.1	3.2957 µg/L	3.2957 ppb	22:26:47
1	Ni 231.604†	4064.2	4331.2	54.476 µg/L	54.476 ppb	22:26:47
1	P 214.914†	6071.6	6349.0	1476.6 µg/L	1476.6 ppb	22:26:47
1	Pb 220.353†	1808.1	1795.2	113.12 µg/L	113.12 ppb	22:26:47
1	S 181.975 Axial†	1554.7	1539.3	1261.9 µg/L	1261.9 ppb	22:26:47
1	Sb 206.836†	89.6	15.6	0.0730 µg/L	0.0730 ppb	22:26:47
1	Se 196.026†	-33.3	-48.4	3.65 µg/L	3.65 ppb	22:26:47
1	SiO2†	516447.6	538715.7	57635 µg/L	57635 ppb	22:26:27
1	Si 251.611†	1586507.0	1659350.8	26859 µg/L	26859 ppb	22:26:27
1	Sn 189.927†	43.7	48.2	10.441 µg/L	10.441 ppb	22:26:47
1	Ti 334.940†	2009156.2	2101721.5	2105.7 µg/L	2105.7 ppb	22:26:27
1	Tl 190.801†	-405.0	-306.8	-7.4904 µg/L	-7.4904 ppb	22:26:47
1	U 409.014†	-5086.4	-5039.3	-294.38 µg/L	-294.38 ppb	22:26:27
1	V 292.402†	16439.8	16894.7	80.744 µg/L	80.744 ppb	22:26:47
1	Zn 213.857†	55531.4	57589.8	350.95 µg/L	350.95 ppb	22:26:27
2	Sc RADIAL	145578.7	145578.7	98.5 %		22:26:18
2	Al 396.153Radial†	180564.4	183419.5	37797 µg/L	37797 ppb	22:26:18
2	Ca 317.933Radial†	454396.7	460725.4	27721 µg/L	27721 ppb	22:26:16
2	Fe 238.204 Radial†	979665.4	994673.9	66930 µg/L	66930 ppb	22:26:16
2	K 766.490 Radial†	23031.2	22074.6	9070.6 µg/L	9070.6 ppb	22:26:18
2	Mg 279.077 IEC†	20681.9	20833.0	8488.7 µg/L	8488.7 ppb	22:26:18
2	Na 589.592 Radial†	4630.0	3494.9	522.61 µg/L	522.61 ppb	22:26:18
2	Sr 421.552†	81751.9	83237.7	191.80 µg/L	191.80 ppb	22:26:18
2	Sc 361.383	1686489.6	1686489.6	96.092 %		22:26:50
2	Y 371.029	1149609.5	1149609.5	108.04 %		22:26:50
2	Ag 328.068†	13142.7	10230.1	38.943 µg/L	38.943 ppb	22:26:50
2	As 188.979†	20.4	38.9	29.246 µg/L	29.246 ppb	22:27:10
2	B 249.677†	5526.7	2521.1	41.027 µg/L	41.027 ppb	22:26:50
2	Ba 233.527†	172247.2	179414.5	780.39 µg/L	780.39 ppb	22:26:50
2	Be 313.107†	22468.4	24167.8	7.1678 µg/L	7.1678 ppb	22:26:50
2	Cd 226.502†	991.2	1141.6	0.8253 µg/L	0.8253 ppb	22:27:10
2	Co 228.616†	1420.9	1651.1	19.618 µg/L	19.618 ppb	22:27:10
2	Cr 267.716†	7945.9	8090.5	69.492 µg/L	69.492 ppb	22:27:10
2	Cu 324.752†	15022.8	12844.8	63.884 µg/L	63.884 ppb	22:26:50
2	Mn 257.610†	3334461.6	3469895.0	4637.4 µg/L	4637.4 ppb	22:26:50
2	Mo 202.031†	-5.4	29.1	3.7588 µg/L	3.7588 ppb	22:27:10
2	Ni 231.604†	4015.8	4257.0	53.544 µg/L	53.544 ppb	22:27:10
2	P 214.914†	5992.5	6231.2	1448.6 µg/L	1448.6 ppb	22:27:10
2	Pb 220.353†	1767.3	1742.2	109.81 µg/L	109.81 ppb	22:27:10

2	S 181.975 Axial†	1523.5	1497.7	1227.8 µg/L	1227.8 ppb	22:27:10
2	Sb 206.836†	85.1	10.5	-0.5839 µg/L	-0.5839 ppb	22:27:10
2	Se 196.026†	-24.6	-39.2	7.26 µg/L	7.26 ppb	22:27:10
2	SiO2†	516159.5	535398.0	57280 µg/L	57280 ppb	22:26:50
2	Si 251.611†	1584138.8	1647615.4	26669 µg/L	26669 ppb	22:26:50
2	Sn 189.927†	32.2	36.1	9.5549 µg/L	9.5549 ppb	22:27:10
2	Ti 334.940†	2008379.9	2089173.0	2093.1 µg/L	2093.1 ppb	22:26:50
2	Tl 190.801†	-388.7	-287.4	-5.0955 µg/L	-5.0955 ppb	22:27:10
2	U 409.014†	-4595.0	-4498.1	-260.68 µg/L	-260.68 ppb	22:26:50
2	V 292.402†	16333.5	16688.0	79.712 µg/L	79.712 ppb	22:27:10
2	Zn 213.857†	55431.1	57160.8	348.32 µg/L	348.32 ppb	22:26:50
3	Sc RADIAL	145297.1	145297.1	98.3 %		22:26:22
3	Al 396.153Radial†	179648.0	182842.5	37679 µg/L	37679 ppb	22:26:22
3	Ca 317.933Radial†	464229.9	471624.2	28376 µg/L	28376 ppb	22:26:20
3	Fe 238.204 Radial†	1001878.2	1019202.0	68581 µg/L	68581 ppb	22:26:20
3	K 766.490 Radial†	22681.4	21764.0	8942.7 µg/L	8942.7 ppb	22:26:22
3	Mg 279.077 IEC†	20554.2	20743.7	8450.7 µg/L	8450.7 ppb	22:26:22
3	Na 589.592 Radial†	4540.2	3412.7	510.24 µg/L	510.24 ppb	22:26:22
3	Sr 421.552†	81411.6	83052.4	191.37 µg/L	191.37 ppb	22:26:22
3	Sc 361.383	1690704.2	1690704.2	96.332 %		22:27:13
3	Y 371.029	1154683.8	1154683.8	108.52 %		22:27:13
3	Ag 328.068†	13465.7	10531.3	40.058 µg/L	40.058 ppb	22:27:13
3	As 188.979†	28.5	47.3	32.545 µg/L	32.545 ppb	22:27:33
3	B 249.677†	5560.4	2541.7	41.362 µg/L	41.362 ppb	22:27:13
3	Ba 233.527†	175022.0	181848.0	790.97 µg/L	790.97 ppb	22:27:13
3	Be 313.107†	23045.6	24708.6	7.3187 µg/L	7.3187 ppb	22:27:13
3	Cd 226.502†	1001.6	1149.8	0.7086 µg/L	0.7086 ppb	22:27:33
3	Co 228.616†	1466.0	1694.3	20.126 µg/L	20.126 ppb	22:27:33
3	Cr 267.716†	8022.8	8149.7	70.062 µg/L	70.062 ppb	22:27:33
3	Cu 324.752†	14995.8	12777.9	63.810 µg/L	63.810 ppb	22:27:13
3	Mn 257.610†	3389728.4	3518615.8	4702.5 µg/L	4702.5 ppb	22:27:13
3	Mo 202.031†	3.8	38.7	4.1274 µg/L	4.1274 ppb	22:27:33
3	Ni 231.604†	4078.9	4312.1	54.236 µg/L	54.236 ppb	22:27:33
3	P 214.914†	6077.9	6304.4	1464.9 µg/L	1464.9 ppb	22:27:33
3	Pb 220.353†	1794.1	1765.5	111.25 µg/L	111.25 ppb	22:27:33
3	S 181.975 Axial†	1563.2	1535.1	1258.3 µg/L	1258.3 ppb	22:27:33
3	Sb 206.836†	72.5	-2.8	-2.3428 µg/L	-2.3428 ppb	22:27:33
3	Se 196.026†	-29.9	-44.6	5.63 µg/L	5.63 ppb	22:27:33
3	SiO2†	524990.2	543226.0	58117 µg/L	58117 ppb	22:27:13
3	Si 251.611†	1611430.4	1671836.6	27061 µg/L	27061 ppb	22:27:13
3	Sn 189.927†	36.5	40.4	9.9617 µg/L	9.9617 ppb	22:27:33
3	Ti 334.940†	2043850.0	2120783.5	2124.8 µg/L	2124.8 ppb	22:27:13
3	Tl 190.801†	-400.2	-298.4	-6.0847 µg/L	-6.0847 ppb	22:27:33
3	U 409.014†	-5185.0	-5098.7	-298.17 µg/L	-298.17 ppb	22:27:13
3	V 292.402†	16516.8	16835.8	80.273 µg/L	80.273 ppb	22:27:33
3	Zn 213.857†	56308.3	57927.7	352.90 µg/L	352.90 ppb	22:27:13

Mean Data: 248520007|962575|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1684755.5	95.993 %	0.3977			0.41%
Sc RADIAL	145147.4	98.2 %	0.35			0.36%
Y 371.029	1149070.1	107.99 %	0.555			0.51%
Ag 328.068†	10433.6	39.711 µg/L	0.6656	39.711 ppb	0.6656	1.68%
Al 396.153Radial†	183880.6	37892 µg/L	274.1	37892 ppb	274.1	0.72%
As 188.979†	42.1	30.517 µg/L	1.7747	30.517 ppb	1.7747	5.82%
B 249.677†	2550.7	41.509 µg/L	0.5696	41.509 ppb	0.5696	1.37%
Ba 233.527†	180547.7	785.32 µg/L	5.325	785.32 ppb	5.325	0.68%
Be 313.107†	24423.6	7.2374 µg/L	0.07616	7.2374 ppb	0.07616	1.05%
Ca 317.933Radial†	465094.3	27984 µg/L	346.7	27984 ppb	346.7	1.24%
Cd 226.502†	1156.6	0.8613 µg/L	0.17347	0.8613 ppb	0.17347	20.14%
Co 228.616†	1679.4	19.972 µg/L	0.3077	19.972 ppb	0.3077	1.54%
Cr 267.716†	8143.5	69.972 µg/L	0.4408	69.972 ppb	0.4408	0.63%
Cu 324.752†	12898.5	64.186 µg/L	0.5877	64.186 ppb	0.5877	0.92%
Fe 238.204 Radial†	1004239.1	67574 µg/L	883.1	67574 ppb	883.1	1.31%
K 766.490 Radial†	22084.8	9074.8 µg/L	134.20	9074.8 ppb	134.20	1.48%
Mg 279.077 IEC†	20948.2	8535.4 µg/L	115.43	8535.4 ppb	115.43	1.35%
Mn 257.610†	3493582.2	4669.1 µg/L	32.60	4669.1 ppb	32.60	0.70%
Mo 202.031†	27.3	3.7273 µg/L	0.41676	3.7273 ppb	0.41676	11.18%
Na 589.592 Radial†	3489.4	521.77 µg/L	11.130	521.77 ppb	11.130	2.13%

Ni 231.604†	4300.1	54.085 µg/L	0.4844	54.085 ppb	0.4844	0.90%
P 214.914†	6294.9	1463.3 µg/L	14.06	1463.3 ppb	14.06	0.96%
Pb 220.353†	1767.6	111.39 µg/L	1.656	111.39 ppb	1.656	1.49%
S 181.975 Axial†	1524.0	1249.3 µg/L	18.75	1249.3 ppb	18.75	1.50%
Sb 206.836†	7.8	-0.9512 µg/L	1.24906	-0.9512 ppb	1.24906	131.31%
Se 196.026†	-44.1	5.51 µg/L	1.806	5.51 ppb	1.806	32.74%
SiO2†	539113.2	57677 µg/L	420.3	57677 ppb	420.3	0.73%
Si 251.611†	1659600.9	26863 µg/L	196.1	26863 ppb	196.1	0.73%
Sn 189.927†	41.6	9.9859 µg/L	0.44354	9.9859 ppb	0.44354	4.44%
Sr 421.552†	83503.0	192.41 µg/L	1.447	192.41 ppb	1.447	0.75%
Ti 334.940†	2103892.6	2107.9 µg/L	15.96	2107.9 ppb	15.96	0.76%
Tl 190.801†	-297.5	-6.2235 µg/L	1.20347	-6.2235 ppb	1.20347	19.34%
U 409.014†	-4878.7	-284.41 µg/L	20.640	-284.41 ppb	20.640	7.26%
Concentration less than lower limit for U 409.014.						
V 292.402†	16806.1	80.243 µg/L	0.5167	80.243 ppb	0.5167	0.64%
Zn 213.857†	57559.4	350.73 µg/L	2.300	350.73 ppb	2.300	0.66%

Sequence No.: 148

Sample ID: 248520008|962575|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 330

Date Collected: 3/30/2010 22:27:42

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248520008|962575|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	145324.4	145324.4	98.3 %		22:28:14
1	Al 396.153Radial†	251933.8	256340.1	52824 µg/L	52824 ppb	22:28:12
1	Ca 317.933Radial†	520207.0	528477.6	31797 µg/L	31797 ppb	22:28:12
1	Fe 238.204 Radial†	1333872.3	1356727.9	91292 µg/L	91292 ppb	22:28:12
1	K 766.490 Radial†	31924.8	31162.4	12806 µg/L	12806 ppb	22:28:14
1	Mg 279.077 IEC†	29325.1	29661.9	12090 µg/L	12090 ppb	22:28:14
1	Na 589.592 Radial†	5955.4	4851.5	725.28 µg/L	725.28 ppb	22:28:14
1	Sr 421.552†	100802.6	102762.1	236.81 µg/L	236.81 ppb	22:28:14
1	Sc 361.383	1686710.5	1686710.5	96.105 %		22:28:27
1	Y 371.029	1166394.2	1166394.2	109.62 %		22:28:27
1	Ag 328.068†	14976.8	12136.7	46.136 µg/L	46.136 ppb	22:28:29
1	As 188.979†	30.3	49.3	39.088 µg/L	39.088 ppb	22:28:49
1	B 249.677†	7216.1	4278.3	69.649 µg/L	69.649 ppb	22:28:29
1	Ba 233.527†	183044.3	190625.7	828.91 µg/L	828.91 ppb	22:28:29
1	Be 313.107†	30490.0	32511.4	9.6472 µg/L	9.6472 ppb	22:28:29
1	Cd 226.502†	1344.7	1509.2	0.8149 µg/L	0.8149 ppb	22:28:49
1	Co 228.616†	1999.0	2252.5	26.543 µg/L	26.543 ppb	22:28:49
1	Cr 267.716†	17208.9	17727.8	151.21 µg/L	151.21 ppb	22:28:49
1	Cu 324.752†	14733.7	12542.0	66.191 µg/L	66.191 ppb	22:28:29
1	Mn 257.610†	4393556.5	4571463.5	6109.6 µg/L	6109.6 ppb	22:28:27
1	Mo 202.031†	-6.1	28.4	4.7769 µg/L	4.7769 ppb	22:28:49
1	Ni 231.604†	8311.9	8726.7	109.76 µg/L	109.76 ppb	22:28:49
1	P 214.914†	7081.8	7363.8	1705.5 µg/L	1705.5 ppb	22:28:49
1	Pb 220.353†	1654.6	1624.7	103.54 µg/L	103.54 ppb	22:28:49
1	S 181.975 Axial†	1991.6	1984.6	1626.8 µg/L	1626.8 ppb	22:28:49
1	Sb 206.836†	108.5	34.8	1.0387 µg/L	1.0387 ppb	22:28:49
1	Se 196.026†	-54.1	-69.9	3.35 µg/L	3.35 ppb	22:28:49
1	SiO2†	502589.0	521207.1	55761 µg/L	55761 ppb	22:28:29
1	Si 251.611†	1530458.8	1591543.7	25761 µg/L	25761 ppb	22:28:27
1	Sn 189.927†	36.7	40.7	11.691 µg/L	11.691 ppb	22:28:49
1	Ti 334.940†	2524473.2	2625911.3	2630.7 µg/L	2630.7 ppb	22:28:27
1	Tl 190.801†	-473.3	-375.4	-7.5255 µg/L	-7.5255 ppb	22:28:49
1	U 409.014†	-5844.2	-5797.3	-336.13 µg/L	-336.13 ppb	22:28:29
1	V 292.402†	22111.8	22698.2	108.85 µg/L	108.85 ppb	22:28:29
1	Zn 213.857†	64861.0	66965.4	406.60 µg/L	406.60 ppb	22:28:29
2	Sc RADIAL	145735.6	145735.6	98.6 %		22:28:18
2	Al 396.153Radial†	253710.7	257419.5	53047 µg/L	53047 ppb	22:28:16
2	Ca 317.933Radial†	523210.2	530031.0	31891 µg/L	31891 ppb	22:28:16
2	Fe 238.204 Radial†	1340435.4	1359557.3	91483 µg/L	91483 ppb	22:28:16
2	K 766.490 Radial†	32212.4	31362.5	12889 µg/L	12889 ppb	22:28:18
2	Mg 279.077 IEC†	29310.0	29562.4	12049 µg/L	12049 ppb	22:28:18
2	Na 589.592 Radial†	5966.7	4845.8	724.34 µg/L	724.34 ppb	22:28:18
2	Sr 421.552†	101664.7	103347.3	238.16 µg/L	238.16 ppb	22:28:18
2	Sc 361.383	1701987.7	1701987.7	96.975 %		22:28:52
2	Y 371.029	1178441.1	1178441.1	110.75 %		22:28:52
2	Ag 328.068†	15211.1	12238.4	46.553 µg/L	46.553 ppb	22:28:54
2	As 188.979†	31.6	50.3	39.477 µg/L	39.477 ppb	22:29:14
2	B 249.677†	7255.7	4251.7	69.216 µg/L	69.216 ppb	22:28:54
2	Ba 233.527†	184865.4	190794.0	829.65 µg/L	829.65 ppb	22:28:54
2	Be 313.107†	30844.3	32592.0	9.6745 µg/L	9.6745 ppb	22:28:54
2	Cd 226.502†	1358.7	1511.1	0.8079 µg/L	0.8079 ppb	22:29:14
2	Co 228.616†	2010.1	2245.3	26.436 µg/L	26.436 ppb	22:29:14
2	Cr 267.716†	17279.0	17639.4	150.45 µg/L	150.45 ppb	22:29:14
2	Cu 324.752†	14891.5	12567.0	66.332 µg/L	66.332 ppb	22:28:54
2	Mn 257.610†	4485255.9	4624987.6	6181.1 µg/L	6181.1 ppb	22:28:52
2	Mo 202.031†	-4.1	30.5	4.8515 µg/L	4.8515 ppb	22:29:14
2	Ni 231.604†	8377.0	8716.2	109.63 µg/L	109.63 ppb	22:29:14
2	P 214.914†	7088.3	7304.4	1691.2 µg/L	1691.2 ppb	22:29:14
2	Pb 220.353†	1684.2	1639.7	104.50 µg/L	104.50 ppb	22:29:14

2	S 181.975 Axial†	2006.1	1981.0	1623.9 µg/L	1623.9 ppb	22:29:14
2	Sb 206.836†	82.6	7.1	-2.5833 µg/L	-2.5833 ppb	22:29:14
2	Se 196.026†	-58.5	-73.9	1.82 µg/L	1.82 ppb	22:29:14
2	SiO2†	507133.1	521198.8	55760 µg/L	55760 ppb	22:28:54
2	Si 251.611†	1563760.5	1611589.9	26086 µg/L	26086 ppb	22:28:52
2	Sn 189.927†	20.8	24.0	10.645 µg/L	10.645 ppb	22:29:14
2	Ti 334.940†	2578584.3	2658131.8	2663.0 µg/L	2663.0 ppb	22:28:52
2	Tl 190.801†	-493.4	-391.7	-9.1937 µg/L	-9.1937 ppb	22:29:14
2	U 409.014†	-5733.7	-5628.8	-325.04 µg/L	-325.04 ppb	22:28:54
2	V 292.402†	22667.0	23064.2	110.75 µg/L	110.75 ppb	22:28:54
2	Zn 213.857†	65355.8	66869.9	406.01 µg/L	406.01 ppb	22:28:54
3	Sc RADIAL	146682.9	146682.9	99.2 %		22:28:23
3	Al 396.153Radial†	256332.9	258400.1	53249 µg/L	53249 ppb	22:28:21
3	Ca 317.933Radial†	530598.0	534049.0	32132 µg/L	32132 ppb	22:28:21
3	Fe 238.204 Radial†	1360250.9	1370746.6	92236 µg/L	92236 ppb	22:28:21
3	K 766.490 Radial†	32191.0	31129.9	12793 µg/L	12793 ppb	22:28:23
3	Mg 279.077 IEC†	29518.9	29580.9	12056 µg/L	12056 ppb	22:28:23
3	Na 589.592 Radial†	6071.1	4911.9	734.46 µg/L	734.46 ppb	22:28:23
3	Sr 421.552†	101885.0	102903.3	237.13 µg/L	237.13 ppb	22:28:23
3	Sc 361.383	1713175.0	1713175.0	97.613 %		22:29:17
3	Y 371.029	1186318.9	1186318.9	111.49 %		22:29:17
3	Ag 328.068†	15280.6	12207.2	46.404 µg/L	46.404 ppb	22:29:19
3	As 188.979†	24.8	43.1	37.145 µg/L	37.145 ppb	22:29:39
3	B 249.677†	7458.6	4410.7	71.808 µg/L	71.808 ppb	22:29:19
3	Ba 233.527†	184616.1	189293.8	823.10 µg/L	823.10 ppb	22:29:19
3	Be 313.107†	30940.1	32482.5	9.6371 µg/L	9.6371 ppb	22:29:19
3	Cd 226.502†	1352.8	1495.9	0.6237 µg/L	0.6237 ppb	22:29:39
3	Co 228.616†	2003.3	2224.8	26.113 µg/L	26.113 ppb	22:29:39
3	Cr 267.716†	17314.1	17559.0	149.82 µg/L	149.82 ppb	22:29:39
3	Cu 324.752†	14723.0	12294.1	65.279 µg/L	65.279 ppb	22:29:19
3	Mn 257.610†	4485680.7	4595220.0	6141.3 µg/L	6141.3 ppb	22:29:17
3	Mo 202.031†	-11.5	23.0	4.6406 µg/L	4.6406 ppb	22:29:39
3	Ni 231.604†	8360.7	8643.1	108.71 µg/L	108.71 ppb	22:29:39
3	P 214.914†	7139.2	7308.8	1691.8 µg/L	1691.8 ppb	22:29:39
3	Pb 220.353†	1692.7	1637.1	104.32 µg/L	104.32 ppb	22:29:39
3	S 181.975 Axial†	1998.3	1959.5	1606.3 µg/L	1606.3 ppb	22:29:39
3	Sb 206.836†	98.0	22.4	-0.5905 µg/L	-0.5905 ppb	22:29:39
3	Se 196.026†	-59.1	-74.1	1.98 µg/L	1.98 ppb	22:29:39
3	SiO2†	508242.5	518920.4	55517 µg/L	55517 ppb	22:29:19
3	Si 251.611†	1563958.3	1601262.4	25918 µg/L	25918 ppb	22:29:17
3	Sn 189.927†	29.1	32.3	11.166 µg/L	11.166 ppb	22:29:39
3	Ti 334.940†	2579933.8	2642150.6	2647.0 µg/L	2647.0 ppb	22:29:17
3	Tl 190.801†	-487.2	-382.1	-8.1687 µg/L	-8.1687 ppb	22:29:39
3	U 409.014†	-6007.2	-5870.4	-340.63 µg/L	-340.63 ppb	22:29:19
3	V 292.402†	22708.8	22954.4	110.08 µg/L	110.08 ppb	22:29:19
3	Zn 213.857†	65323.3	66396.5	402.99 µg/L	402.99 ppb	22:29:19

Mean Data: 248520008|962575|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1700624.4	96.897 %		0.7569			0.78%
Sc RADIAL	145914.3	98.7 %		0.47			0.48%
Y 371.029	1177051.4	110.62 %		0.943			0.85%
Ag 328.068†	12194.1	46.364 µg/L		0.2111	46.364 ppb	0.2111	0.46%
Al 396.153Radial†	257386.6	53040 µg/L		212.3	53040 ppb	212.3	0.40%
As 188.979†	47.5	38.570 µg/L		1.2491	38.570 ppb	1.2491	3.24%
B 249.677†	4313.6	70.224 µg/L		1.3889	70.224 ppb	1.3889	1.98%
Ba 233.527†	190237.8	827.22 µg/L		3.585	827.22 ppb	3.585	0.43%
Be 313.107†	32528.6	9.6529 µg/L		0.01938	9.6529 ppb	0.01938	0.20%
Ca 317.933Radial†	530852.5	31940 µg/L		173.0	31940 ppb	173.0	0.54%
Cd 226.502†	1505.4	0.7488 µg/L		0.10842	0.7488 ppb	0.10842	14.48%
Co 228.616†	2240.8	26.364 µg/L		0.2241	26.364 ppb	0.2241	0.85%
Cr 267.716†	17642.1	150.49 µg/L		0.698	150.49 ppb	0.698	0.46%
Cu 324.752†	12467.7	65.934 µg/L		0.5715	65.934 ppb	0.5715	0.87%
Fe 238.204 Radial†	1362343.9	91670 µg/L		498.8	91670 ppb	498.8	0.54%
K 766.490 Radial†	31218.3	12829 µg/L		51.9	12829 ppb	51.9	0.40%
Mg 279.077 IEC†	29601.7	12065 µg/L		21.9	12065 ppb	21.9	0.18%
Mn 257.610†	4597223.7	6144.0 µg/L		35.85	6144.0 ppb	35.85	0.58%
Mo 202.031†	27.3	4.7563 µg/L		0.10695	4.7563 ppb	0.10695	2.25%
Na 589.592 Radial†	4869.7	728.03 µg/L		5.594	728.03 ppb	5.594	0.77%



Ni 231.604†	8695.3	109.37 µg/L	0.573	109.37 ppb	0.573	0.52%
P 214.914†	7325.7	1696.2 µg/L	8.07	1696.2 ppb	8.07	0.48%
Pb 220.353†	1633.9	104.12 µg/L	0.510	104.12 ppb	0.510	0.49%
S 181.975 Axial†	1975.0	1619.0 µg/L	11.12	1619.0 ppb	11.12	0.69%
Sb 206.836†	21.4	-0.7117 µg/L	1.81402	-0.7117 ppb	1.81402	254.89%
Se 196.026†	-72.6	2.39 µg/L	0.842	2.39 ppb	0.842	35.30%
SiO2†	520442.1	55680 µg/L	141.0	55680 ppb	141.0	0.25%
Si 251.611†	1601465.3	25922 µg/L	162.3	25922 ppb	162.3	0.63%
Sn 189.927†	32.4	11.167 µg/L	0.5229	11.167 ppb	0.5229	4.68%
Sr 421.552†	103004.3	237.37 µg/L	0.704	237.37 ppb	0.704	0.30%
Ti 334.940†	2642064.6	2646.9 µg/L	16.14	2646.9 ppb	16.14	0.61%
Tl 190.801†	-383.0	-8.2960 µg/L	0.84138	-8.2960 ppb	0.84138	10.14%
U 409.014†	-5765.5	-333.93 µg/L	8.023	-333.93 ppb	8.023	2.40%
Concentration less than lower limit for U 409.014.						
V 292.402†	22905.6	109.89 µg/L	0.963	109.89 ppb	0.963	0.88%
Zn 213.857†	66743.9	405.20 µg/L	1.935	405.20 ppb	1.935	0.48%

Sequence No.: 149

Sample ID: 248520009|962575|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 331

Date Collected: 3/30/2010 22:29:48

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248520009|962575|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146872.8	146872.8	99.4 %		22:30:20
1	Al 396.153Radial†	171383.1	172562.7	35560 µg/L	35560 ppb	22:30:20
1	Ca 317.933Radial†	473213.8	475599.4	28616 µg/L	28616 ppb	22:30:18
1	Fe 238.204 Radial†	980069.9	986315.7	66368 µg/L	66368 ppb	22:30:18
1	K 766.490 Radial†	22031.4	20862.2	8572.0 µg/L	8572.0 ppb	22:30:20
1	Mg 279.077 IEC†	19925.5	19886.5	8100.9 µg/L	8100.9 ppb	22:30:20
1	Na 589.592 Radial†	4754.3	3578.7	535.78 µg/L	535.78 ppb	22:30:20
1	Sr 421.552†	83727.6	84494.8	194.69 µg/L	194.69 ppb	22:30:20
1	Sc 361.383	1690852.6	1690852.6	96.341 %		22:30:33
1	Y 371.029	1140952.8	1140952.8	107.23 %		22:30:33
1	Ag 328.068†	11667.6	8663.7	32.769 µg/L	32.769 ppb	22:30:33
1	As 188.979†	15.5	33.8	28.739 µg/L	28.739 ppb	22:30:53
1	B 249.677†	5370.0	2343.6	38.130 µg/L	38.130 ppb	22:30:33
1	Ba 233.527†	173419.0	180168.2	783.68 µg/L	783.68 ppb	22:30:33
1	Be 313.107†	23809.4	25499.4	7.5644 µg/L	7.5644 ppb	22:30:33
1	Cd 226.502†	1003.8	1152.0	0.9914 µg/L	0.9914 ppb	22:30:53
1	Co 228.616†	1508.9	1738.6	20.861 µg/L	20.861 ppb	22:30:53
1	Cr 267.716†	24775.7	25538.2	216.55 µg/L	216.55 ppb	22:30:53
1	Cu 324.752†	15615.4	13419.6	66.206 µg/L	66.206 ppb	22:30:33
1	Mn 257.610†	3215076.4	3337021.2	4459.8 µg/L	4459.8 ppb	22:30:33
1	Mo 202.031†	24.7	60.4	4.7239 µg/L	4.7239 ppb	22:30:53
1	Ni 231.604†	9599.0	10041.5	126.30 µg/L	126.30 ppb	22:30:53
1	P 214.914†	6397.8	6635.8	1544.9 µg/L	1544.9 ppb	22:30:53
1	Pb 220.353†	1741.4	1710.6	107.57 µg/L	107.57 ppb	22:30:53
1	S 181.975 Axial†	1570.9	1542.8	1264.7 µg/L	1264.7 ppb	22:30:53
1	Sb 206.836†	95.0	20.5	-1.4336 µg/L	-1.4336 ppb	22:30:53
1	Se 196.026†	-12.2	-26.3	12.2 µg/L	12.2 ppb	22:30:53
1	SiO2†	519509.8	537489.5	57503 µg/L	57503 ppb	22:30:33
1	Si 251.611†	1593375.4	1652949.0	26755 µg/L	26755 ppb	22:30:33
1	Sn 189.927†	34.9	38.8	9.2412 µg/L	9.2412 ppb	22:30:53
1	Ti 334.940†	1870511.1	1940674.4	1944.4 µg/L	1944.4 ppb	22:30:33
1	Tl 190.801†	-381.0	-278.3	-5.8227 µg/L	-5.8227 ppb	22:30:53
1	U 409.014†	-4761.1	-4658.2	-271.75 µg/L	-271.75 ppb	22:30:33
1	V 292.402†	16735.3	17061.1	82.526 µg/L	82.526 ppb	22:30:53
1	Zn 213.857†	55554.4	57140.0	347.65 µg/L	347.65 ppb	22:30:33
2	Sc RADIAL	147999.8	147999.8	100 %		22:30:24
2	Al 396.153Radial†	173209.8	173073.7	35665 µg/L	35665 ppb	22:30:24
2	Ca 317.933Radial†	472278.6	471038.2	28341 µg/L	28341 ppb	22:30:22
2	Fe 238.204 Radial†	978130.4	976866.4	65732 µg/L	65732 ppb	22:30:22
2	K 766.490 Radial†	22295.9	20957.5	8611.3 µg/L	8611.3 ppb	22:30:24
2	Mg 279.077 IEC†	20105.0	19913.1	8112.4 µg/L	8112.4 ppb	22:30:24
2	Na 589.592 Radial†	4810.1	3597.9	538.66 µg/L	538.66 ppb	22:30:24
2	Sr 421.552†	84798.2	84922.5	195.68 µg/L	195.68 ppb	22:30:24
2	Sc 361.383	1717773.5	1717773.5	97.875 %		22:30:56
2	Y 371.029	1157010.4	1157010.4	108.74 %		22:30:56
2	Ag 328.068†	12071.1	8886.1	33.682 µg/L	33.682 ppb	22:30:56
2	As 188.979†	16.0	34.0	28.624 µg/L	28.624 ppb	22:31:16
2	B 249.677†	5473.3	2361.8	38.425 µg/L	38.425 ppb	22:30:56
2	Ba 233.527†	174103.1	178046.1	774.45 µg/L	774.45 ppb	22:30:56
2	Be 313.107†	24038.2	25345.8	7.5225 µg/L	7.5225 ppb	22:30:56
2	Cd 226.502†	1013.9	1145.9	1.0155 µg/L	1.0155 ppb	22:31:16
2	Co 228.616†	1535.4	1741.1	20.918 µg/L	20.918 ppb	22:31:16
2	Cr 267.716†	24758.5	25117.6	212.98 µg/L	212.98 ppb	22:31:16
2	Cu 324.752†	15471.9	13019.0	64.437 µg/L	64.437 ppb	22:30:56
2	Mn 257.610†	3230125.0	3300096.2	4410.5 µg/L	4410.5 ppb	22:30:56
2	Mo 202.031†	6.2	41.1	4.0869 µg/L	4.0869 ppb	22:31:16
2	Ni 231.604†	9599.7	9886.1	124.34 µg/L	124.34 ppb	22:31:16
2	P 214.914†	6384.9	6518.6	1517.5 µg/L	1517.5 ppb	22:31:16
2	Pb 220.353†	1752.3	1693.4	106.51 µg/L	106.51 ppb	22:31:16

2	S 181.975 Axial†	1591.5	1538.3	1261.0 µg/L	1261.0 ppb	22:31:16
2	Sb 206.836†	100.4	24.5	-0.8643 µg/L	-0.8643 ppb	22:31:16
2	Se 196.026†	-44.9	-59.4	-1.26 µg/L	-1.26 ppb	22:31:16
2	SiO2†	521585.7	531159.6	56826 µg/L	56826 ppb	22:30:56
2	Si 251.611†	1600810.6	1634625.8	26458 µg/L	26458 ppb	22:30:56
2	Sn 189.927†	41.6	45.0	9.6013 µg/L	9.6013 ppb	22:31:16
2	Ti 334.940†	1879166.1	1919089.3	1922.7 µg/L	1922.7 ppb	22:30:56
2	Tl 190.801†	-376.8	-267.9	-4.7726 µg/L	-4.7726 ppb	22:31:16
2	U 409.014†	-4616.9	-4433.4	-257.92 µg/L	-257.92 ppb	22:30:56
2	V 292.402†	16795.1	16850.0	81.480 µg/L	81.480 ppb	22:31:16
2	Zn 213.857†	55888.3	56577.4	344.23 µg/L	344.23 ppb	22:30:56
3	Sc RADIAL	147153.6	147153.6	99.5 %		22:30:28
3	Al 396.153Radial†	172546.2	173402.1	35733 µg/L	35733 ppb	22:30:28
3	Ca 317.933Radial†	488042.9	489587.8	29457 µg/L	29457 ppb	22:30:26
3	Fe 238.204 Radial†	1010097.9	1014599.4	68271 µg/L	68271 ppb	22:30:26
3	K 766.490 Radial†	22287.6	21077.2	8660.3 µg/L	8660.3 ppb	22:30:28
3	Mg 279.077 IEC†	20056.3	19979.7	8137.5 µg/L	8137.5 ppb	22:30:28
3	Na 589.592 Radial†	4740.5	3555.7	532.21 µg/L	532.21 ppb	22:30:28
3	Sr 421.552†	84386.0	84995.5	195.84 µg/L	195.84 ppb	22:30:28
3	Sc 361.383	1718153.7	1718153.7	97.896 %		22:31:19
3	Y 371.029	1159812.2	1159812.2	109.00 %		22:31:19
3	Ag 328.068†	12074.5	8886.9	33.633 µg/L	33.633 ppb	22:31:19
3	As 188.979†	16.5	34.5	29.399 µg/L	29.399 ppb	22:31:39
3	B 249.677†	5406.7	2292.5	37.296 µg/L	37.296 ppb	22:31:19
3	Ba 233.527†	176551.5	180507.8	785.14 µg/L	785.14 ppb	22:31:19
3	Be 313.107†	24260.5	25567.5	7.5886 µg/L	7.5886 ppb	22:31:19
3	Cd 226.502†	1030.8	1163.0	0.8666 µg/L	0.8666 ppb	22:31:39
3	Co 228.616†	1533.2	1738.6	20.763 µg/L	20.763 ppb	22:31:39
3	Cr 267.716†	25035.0	25394.5	215.39 µg/L	215.39 ppb	22:31:39
3	Cu 324.752†	15664.1	13211.7	65.619 µg/L	65.619 ppb	22:31:19
3	Mn 257.610†	3275417.9	3345632.1	4471.3 µg/L	4471.3 ppb	22:31:19
3	Mo 202.031†	22.1	57.4	4.7048 µg/L	4.7048 ppb	22:31:39
3	Ni 231.604†	9711.1	9997.6	125.75 µg/L	125.75 ppb	22:31:39
3	P 214.914†	6487.7	6622.2	1540.4 µg/L	1540.4 ppb	22:31:39
3	Pb 220.353†	1762.3	1703.2	107.06 µg/L	107.06 ppb	22:31:39
3	S 181.975 Axial†	1620.2	1567.3	1284.8 µg/L	1284.8 ppb	22:31:39
3	Sb 206.836†	107.1	31.3	-0.0243 µg/L	-0.0243 ppb	22:31:39
3	Se 196.026†	-34.4	-48.7	3.93 µg/L	3.93 ppb	22:31:39
3	SiO2†	529137.9	538756.1	57639 µg/L	57639 ppb	22:31:19
3	Si 251.611†	1624509.6	1658472.2	26844 µg/L	26844 ppb	22:31:19
3	Sn 189.927†	24.0	27.1	8.4419 µg/L	8.4419 ppb	22:31:39
3	Ti 334.940†	1904285.0	1944323.1	1948.0 µg/L	1948.0 ppb	22:31:19
3	Tl 190.801†	-391.2	-282.5	-6.3133 µg/L	-6.3133 ppb	22:31:39
3	U 409.014†	-4641.4	-4457.4	-259.51 µg/L	-259.51 ppb	22:31:19
3	V 292.402†	16971.6	17026.5	82.140 µg/L	82.140 ppb	22:31:39
3	Zn 213.857†	56777.1	57472.7	349.51 µg/L	349.51 ppb	22:31:19

Mean Data: 248520009|962575|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1708926.6	97.370 %	0.8919			0.92%
Sc RADIAL	147342.0	99.7 %	0.40			0.40%
Y 371.029	1152591.8	108.32 %	0.956			0.88%
Ag 328.068†	8812.2	33.362 µg/L	0.5134	33.362 ppb	0.5134	1.54%
Al 396.153Radial†	173012.9	35653 µg/L	87.2	35653 ppb	87.2	0.24%
As 188.979†	34.1	28.921 µg/L	0.4181	28.921 ppb	0.4181	1.45%
B 249.677†	2332.6	37.950 µg/L	0.5856	37.950 ppb	0.5856	1.54%
Ba 233.527†	179574.0	781.09 µg/L	5.796	781.09 ppb	5.796	0.74%
Be 313.107†	25470.9	7.5585 µg/L	0.03342	7.5585 ppb	0.03342	0.44%
Ca 317.933Radial†	478741.8	28805 µg/L	581.6	28805 ppb	581.6	2.02%
Cd 226.502†	1153.6	0.9579 µg/L	0.07990	0.9579 ppb	0.07990	8.34%
Co 228.616†	1739.5	20.848 µg/L	0.0785	20.848 ppb	0.0785	0.38%
Cr 267.716†	25350.1	214.97 µg/L	1.819	214.97 ppb	1.819	0.85%
Cu 324.752†	13216.8	65.421 µg/L	0.9008	65.421 ppb	0.9008	1.38%
Fe 238.204 Radial†	992593.9	66790 µg/L	1321.2	66790 ppb	1321.2	1.98%
K 766.490 Radial†	20965.6	8614.5 µg/L	44.23	8614.5 ppb	44.23	0.51%
Mg 279.077 IEC†	19926.4	8116.9 µg/L	18.70	8116.9 ppb	18.70	0.23%
Mn 257.610†	3327583.2	4447.2 µg/L	32.33	4447.2 ppb	32.33	0.73%
Mo 202.031†	52.9	4.5052 µg/L	0.36237	4.5052 ppb	0.36237	8.04%
Na 589.592 Radial†	3577.4	535.55 µg/L	3.233	535.55 ppb	3.233	0.60%

Ni 231.604†	9975.1	125.46 µg/L	1.008	125.46 ppb	1.008	0.80%
P 214.914†	6592.2	1534.3 µg/L	14.73	1534.3 ppb	14.73	0.96%
Pb 220.353†	1702.4	107.05 µg/L	0.532	107.05 ppb	0.532	0.50%
S 181.975 Axial†	1549.5	1270.2 µg/L	12.78	1270.2 ppb	12.78	1.01%
Sb 206.836†	25.4	-0.7741 µg/L	0.70897	-0.7741 ppb	0.70897	91.59%
Se 196.026†	-44.8	4.97 µg/L	6.802	4.97 ppb	6.802	136.93%
SiO2†	535801.7	57323 µg/L	435.4	57323 ppb	435.4	0.76%
Si 251.611†	1648682.3	26686 µg/L	202.0	26686 ppb	202.0	0.76%
Sn 189.927†	37.0	9.0948 µg/L	0.59337	9.0948 ppb	0.59337	6.52%
Sr 421.552†	84804.3	195.41 µg/L	0.622	195.41 ppb	0.622	0.32%
Ti 334.940†	1934695.6	1938.4 µg/L	13.68	1938.4 ppb	13.68	0.71%
Tl 190.801†	-276.2	-5.6362 µg/L	0.78711	-5.6362 ppb	0.78711	13.97%
U 409.014†	-4516.3	-263.06 µg/L	7.568	-263.06 ppb	7.568	2.88%
Concentration less than lower limit for U 409.014.						
V 292.402†	16979.2	82.049 µg/L	0.5290	82.049 ppb	0.5290	0.64%
Zn 213.857†	57063.4	347.13 µg/L	2.675	347.13 ppb	2.675	0.77%

Sequence No.: 150

Sample ID: 248520010|962575|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 332

Date Collected: 3/30/2010 22:31:47

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248520010|962575|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	150595.8	150595.8	102 %		22:32:19
1	Al 396.153Radial†	134891.8	132477.1	27300 µg/L	27300 ppb	22:32:19
1	Ca 317.933Radial†	322893.5	316265.0	19029 µg/L	19029 ppb	22:32:19
1	Fe 238.204 Radial†	876404.2	860166.7	57880 µg/L	57880 ppb	22:32:17
1	K 766.490 Radial†	17722.3	16084.0	6609.3 µg/L	6609.3 ppb	22:32:19
1	Mg 279.077 IEC†	15840.8	15381.1	6260.0 µg/L	6260.0 ppb	22:32:19
1	Na 589.592 Radial†	3962.4	2683.0	401.52 µg/L	401.52 ppb	22:32:19
1	Sr 421.552†	55670.1	54869.3	126.43 µg/L	126.43 ppb	22:32:19
1	Sc 361.383	1751058.6	1751058.6	99.771 %		22:32:32
1	Y 371.029	1185902.0	1185902.0	111.45 %		22:32:32
1	Ag 328.068†	4670.1	1233.8	3.6173 µg/L	3.6173 ppb	22:32:32
1	As 188.979†	19.6	37.3	26.610 µg/L	26.610 ppb	22:32:52
1	B 249.677†	4577.9	1358.1	22.084 µg/L	22.084 ppb	22:32:32
1	Ba 233.527†	115703.2	116130.9	504.95 µg/L	504.95 ppb	22:32:32
1	Be 313.107†	19933.3	20764.6	6.1461 µg/L	6.1461 ppb	22:32:32
1	Cd 226.502†	845.3	957.3	0.5089 µg/L	0.5089 ppb	22:32:52
1	Co 228.616†	1061.3	1236.2	14.207 µg/L	14.207 ppb	22:32:52
1	Cr 267.716†	7560.5	7399.3	63.715 µg/L	63.715 ppb	22:32:52
1	Cu 324.752†	8634.7	5865.6	33.092 µg/L	33.092 ppb	22:32:32
1	Mn 257.610†	2439757.5	2445181.3	3267.9 µg/L	3267.9 ppb	22:32:32
1	Mo 202.031†	-9.5	25.2	3.2289 µg/L	3.2289 ppb	22:32:52
1	Ni 231.604†	3652.6	3738.8	47.026 µg/L	47.026 ppb	22:32:52
1	P 214.914†	4962.6	4969.0	1151.7 µg/L	1151.7 ppb	22:32:52
1	Pb 220.353†	1140.5	1046.1	66.262 µg/L	66.262 ppb	22:32:52
1	S 181.975 Axial†	1063.5	978.3	801.94 µg/L	801.94 ppb	22:32:52
1	Sb 206.836†	84.4	6.6	-0.8556 µg/L	-0.8556 ppb	22:32:52
1	Se 196.026†	-27.5	-41.2	3.33 µg/L	3.33 ppb	22:32:52
1	SiO2†	551530.3	551042.9	58953 µg/L	58953 ppb	22:32:32
1	Si 251.611†	1689857.3	1692787.0	27400 µg/L	27400 ppb	22:32:32
1	Sn 189.927†	50.3	53.0	9.2244 µg/L	9.2244 ppb	22:32:52
1	Ti 334.940†	1641771.7	1644654.1	1647.8 µg/L	1647.8 ppb	22:32:32
1	Tl 190.801†	-344.2	-228.0	-5.2271 µg/L	-5.2271 ppb	22:32:52
1	U 409.014†	-4789.4	-4516.7	-270.14 µg/L	-270.14 ppb	22:32:32
1	V 292.402†	13348.5	13069.3	61.840 µg/L	61.840 ppb	22:32:52
1	Zn 213.857†	46198.2	45779.7	278.50 µg/L	278.50 ppb	22:32:32
2	Sc RADIAL	152939.7	152939.7	103 %		22:32:23
2	Al 396.153Radial†	136793.9	132286.3	27260 µg/L	27260 ppb	22:32:23
2	Ca 317.933Radial†	327209.2	315578.9	18988 µg/L	18988 ppb	22:32:23
2	Fe 238.204 Radial†	888194.2	858378.1	57759 µg/L	57759 ppb	22:32:21
2	K 766.490 Radial†	17853.8	15944.5	6551.9 µg/L	6551.9 ppb	22:32:23
2	Mg 279.077 IEC†	16107.3	15400.4	6268.0 µg/L	6268.0 ppb	22:32:23
2	Na 589.592 Radial†	3947.7	2609.2	390.36 µg/L	390.36 ppb	22:32:23
2	Sr 421.552†	56458.5	54793.8	126.25 µg/L	126.25 ppb	22:32:23
2	Sc 361.383	1760368.7	1760368.7	100.30 %		22:32:55
2	Y 371.029	1192597.4	1192597.4	112.08 %		22:32:55
2	Ag 328.068†	4956.0	1494.0	4.6533 µg/L	4.6533 ppb	22:32:55
2	As 188.979†	19.4	37.0	26.478 µg/L	26.478 ppb	22:33:15
2	B 249.677†	4602.7	1358.5	22.090 µg/L	22.090 ppb	22:32:55
2	Ba 233.527†	116618.5	116430.1	506.25 µg/L	506.25 ppb	22:32:55
2	Be 313.107†	20002.4	20727.8	6.1361 µg/L	6.1361 ppb	22:32:55
2	Cd 226.502†	834.1	941.6	0.4137 µg/L	0.4137 ppb	22:33:15
2	Co 228.616†	1088.1	1257.3	14.500 µg/L	14.500 ppb	22:33:15
2	Cr 267.716†	7588.3	7386.9	63.602 µg/L	63.602 ppb	22:33:15
2	Cu 324.752†	8554.7	5740.0	32.549 µg/L	32.549 ppb	22:32:55
2	Mn 257.610†	2456643.9	2449084.1	3273.1 µg/L	3273.1 ppb	22:32:55
2	Mo 202.031†	8.1	42.9	3.7858 µg/L	3.7858 ppb	22:33:15
2	Ni 231.604†	3679.1	3745.9	47.115 µg/L	47.115 ppb	22:33:15
2	P 214.914†	4970.7	4950.7	1147.4 µg/L	1147.4 ppb	22:33:15
2	Pb 220.353†	1127.9	1027.6	65.130 µg/L	65.130 ppb	22:33:15

2	S 181.975 Axial†	1067.2	976.3	800.33 µg/L	800.33 ppb	22:33:15
2	Sb 206.836†	82.7	4.3	-1.1395 µg/L	-1.1395 ppb	22:33:15
2	Se 196.026†	-28.9	-42.4	2.80 µg/L	2.80 ppb	22:33:15
2	SiO2†	555393.0	551970.5	59053 µg/L	59053 ppb	22:32:55
2	Si 251.611†	1703003.4	1696935.8	27467 µg/L	27467 ppb	22:32:55
2	Sn 189.927†	27.9	30.4	7.6707 µg/L	7.6707 ppb	22:33:15
2	Ti 334.940†	1653495.7	1647640.0	1650.7 µg/L	1650.7 ppb	22:32:55
2	Tl 190.801†	-348.3	-230.2	-5.4873 µg/L	-5.4873 ppb	22:33:15
2	U 409.014†	-4762.7	-4464.6	-266.83 µg/L	-266.83 ppb	22:32:55
2	V 292.402†	13376.1	13026.0	61.628 µg/L	61.628 ppb	22:33:15
2	Zn 213.857†	46696.7	46031.8	280.08 µg/L	280.08 ppb	22:32:55
3	Sc RADIAL	152420.9	152420.9	103 %		22:32:27
3	Al 396.153Radial†	135354.6	131340.5	27065 µg/L	27065 ppb	22:32:27
3	Ca 317.933Radial†	324487.5	314015.7	18894 µg/L	18894 ppb	22:32:27
3	Fe 238.204 Radial†	898394.4	871193.3	58621 µg/L	58621 ppb	22:32:25
3	K 766.490 Radial†	17829.0	15979.2	6566.3 µg/L	6566.3 ppb	22:32:27
3	Mg 279.077 IEC†	16020.7	15369.3	6254.5 µg/L	6254.5 ppb	22:32:27
3	Na 589.592 Radial†	3995.4	2668.4	399.34 µg/L	399.34 ppb	22:32:27
3	Sr 421.552†	56028.4	54562.4	125.72 µg/L	125.72 ppb	22:32:27
3	Sc 361.383	1761723.9	1761723.9	100.38 %		22:33:18
3	Y 371.029	1193676.9	1193676.9	112.18 %		22:33:18
3	Ag 328.068†	5071.1	1604.9	5.0799 µg/L	5.0799 ppb	22:33:18
3	As 188.979†	23.7	41.3	28.159 µg/L	28.159 ppb	22:33:38
3	B 249.677†	4558.3	1310.7	21.313 µg/L	21.313 ppb	22:33:18
3	Ba 233.527†	117065.4	116785.9	507.79 µg/L	507.79 ppb	22:33:18
3	Be 313.107†	19977.2	20687.4	6.1215 µg/L	6.1215 ppb	22:33:18
3	Cd 226.502†	826.3	933.2	0.2652 µg/L	0.2652 ppb	22:33:38
3	Co 228.616†	1064.2	1232.6	14.122 µg/L	14.122 ppb	22:33:38
3	Cr 267.716†	7634.3	7427.0	63.975 µg/L	63.975 ppb	22:33:38
3	Cu 324.752†	8599.3	5777.9	32.827 µg/L	32.827 ppb	22:33:18
3	Mn 257.610†	2463623.8	2454153.6	3279.9 µg/L	3279.9 ppb	22:33:18
3	Mo 202.031†	13.7	48.4	3.9975 µg/L	3.9975 ppb	22:33:38
3	Ni 231.604†	3683.8	3747.8	47.139 µg/L	47.139 ppb	22:33:38
3	P 214.914†	4985.6	4961.8	1149.4 µg/L	1149.4 ppb	22:33:38
3	Pb 220.353†	1161.8	1060.5	67.112 µg/L	67.112 ppb	22:33:38
3	S 181.975 Axial†	1072.0	980.3	803.57 µg/L	803.57 ppb	22:33:38
3	Sb 206.836†	85.4	7.0	-0.7968 µg/L	-0.7968 ppb	22:33:38
3	Se 196.026†	-32.3	-45.7	1.77 µg/L	1.77 ppb	22:33:38
3	SiO2†	557255.7	553400.2	59205 µg/L	59205 ppb	22:33:18
3	Si 251.611†	1709287.4	1701890.0	27547 µg/L	27547 ppb	22:33:18
3	Sn 189.927†	39.2	41.6	8.4537 µg/L	8.4537 ppb	22:33:38
3	Ti 334.940†	1656884.9	1649748.3	1652.9 µg/L	1652.9 ppb	22:33:18
3	Tl 190.801†	-345.1	-226.7	-4.9823 µg/L	-4.9823 ppb	22:33:38
3	U 409.014†	-4895.8	-4593.5	-275.06 µg/L	-275.06 ppb	22:33:18
3	V 292.402†	13399.5	13039.1	61.602 µg/L	61.602 ppb	22:33:38
3	Zn 213.857†	46700.4	45999.6	279.78 µg/L	279.78 ppb	22:33:18

## Mean Data: 248520010|962575|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1757717.1	100.15 %	%	0.331			0.33%
Sc RADIAL	151985.5	103 %	%	0.8			0.81%
Y 371.029	1190725.4	111.91 %	%	0.396			0.35%
Ag 328.068†	1444.2	4.4502 µg/L	µg/L	0.75217	4.4502 ppb	0.75217	16.90%
Al 396.153Radial†	132034.6	27209 µg/L	µg/L	125.5	27209 ppb	125.5	0.46%
As 188.979†	38.6	27.082 µg/L	µg/L	0.9347	27.082 ppb	0.9347	3.45%
B 249.677†	1342.4	21.829 µg/L	µg/L	0.4471	21.829 ppb	0.4471	2.05%
Ba 233.527†	116449.0	506.33 µg/L	µg/L	1.423	506.33 ppb	1.423	0.28%
Be 313.107†	20726.6	6.1345 µg/L	µg/L	0.01238	6.1345 ppb	0.01238	0.20%
Ca 317.933Radial†	315286.5	18970 µg/L	µg/L	69.4	18970 ppb	69.4	0.37%
Cd 226.502†	944.0	0.3959 µg/L	µg/L	0.12282	0.3959 ppb	0.12282	31.02%
Co 228.616†	1242.0	14.276 µg/L	µg/L	0.1979	14.276 ppb	0.1979	1.39%
Cr 267.716†	7404.4	63.764 µg/L	µg/L	0.1910	63.764 ppb	0.1910	0.30%
Cu 324.752†	5794.5	32.823 µg/L	µg/L	0.2718	32.823 ppb	0.2718	0.83%
Fe 238.204 Radial†	863246.0	58087 µg/L	µg/L	467.0	58087 ppb	467.0	0.80%
K 766.490 Radial†	16002.6	6575.8 µg/L	µg/L	29.87	6575.8 ppb	29.87	0.45%
Mg 279.077 IEC†	15383.6	6260.8 µg/L	µg/L	6.77	6260.8 ppb	6.77	0.11%
Mn 257.610†	2449473.0	3273.6 µg/L	µg/L	6.01	3273.6 ppb	6.01	0.18%
Mo 202.031†	38.8	3.6708 µg/L	µg/L	0.39700	3.6708 ppb	0.39700	10.82%
Na 589.592 Radial†	2653.5	397.08 µg/L	µg/L	5.914	397.08 ppb	5.914	1.49%

Ni 231.604†	3744.2	47.094 µg/L	0.0597	47.094 ppb	0.0597	0.13%
P 214.914†	4960.5	1149.5 µg/L	2.15	1149.5 ppb	2.15	0.19%
Pb 220.353†	1044.7	66.168 µg/L	0.9941	66.168 ppb	0.9941	1.50%
S 181.975 Axial†	978.3	801.95 µg/L	1.624	801.95 ppb	1.624	0.20%
Sb 206.836†	6.0	-0.9306 µg/L	0.18323	-0.9306 ppb	0.18323	19.69%
Se 196.026†	-43.1	2.63 µg/L	0.795	2.63 ppb	0.795	30.18%
SiO2†	552137.8	59070 µg/L	127.0	59070 ppb	127.0	0.22%
Si 251.611†	1697204.3	27471 µg/L	73.8	27471 ppb	73.8	0.27%
Sn 189.927†	41.7	8.4496 µg/L	0.77686	8.4496 ppb	0.77686	9.19%
Sr 421.552†	54741.8	126.13 µg/L	0.368	126.13 ppb	0.368	0.29%
Ti 334.940†	1647347.5	1650.5 µg/L	2.56	1650.5 ppb	2.56	0.16%
Tl 190.801†	-228.3	-5.2322 µg/L	0.25255	-5.2322 ppb	0.25255	4.83%
U 409.014†	-4524.9	-270.67 µg/L	4.141	-270.67 ppb	4.141	1.53%
Concentration less than lower limit for U 409.014.						
V 292.402†	13044.8	61.690 µg/L	0.1305	61.690 ppb	0.1305	0.21%
Zn 213.857†	45937.0	279.45 µg/L	0.839	279.45 ppb	0.839	0.30%

Sequence No.: 151

Sample ID: 248520011|962575|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 333

Date Collected: 3/30/2010 22:33:46

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248520011|962575|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	153975.4	153975.4	104 %		22:34:18
1	Al 396.153Radial†	323127.2	310293.2	63943 µg/L	63943 ppb	22:34:18
1	Ca 317.933Radial†	412657.0	395488.8	23796 µg/L	23796 ppb	22:34:18
1	Fe 238.204 Radial†	1606204.1	1541955.5	103760 µg/L	103760 ppb	22:34:16
1	K 766.490 Radial†	35695.0	32957.5	13544 µg/L	13544 ppb	22:34:18
1	Mg 279.077 IEC†	37557.1	35889.3	14633 µg/L	14633 ppb	22:34:18
1	Na 589.592 Radial†	5474.8	4049.7	602.87 µg/L	602.87 ppb	22:34:18
1	Sr 421.552†	88030.1	84738.2	195.29 µg/L	195.29 ppb	22:34:18
1	Sc 361.383	1777351.6	1777351.6	101.27 %		22:34:45
1	Y 371.029	1203384.0	1203384.0	113.10 %		22:34:45
1	Ag 328.068†	4309.7	808.6	2.6611 µg/L	2.6611 ppb	22:34:45
1	As 188.979†	14.1	31.6	35.180 µg/L	35.180 ppb	22:35:06
1	B 249.677†	5255.2	1959.0	31.792 µg/L	31.792 ppb	22:34:45
1	Ba 233.527†	168338.9	166391.4	723.27 µg/L	723.27 ppb	22:34:45
1	Be 313.107†	33213.1	33582.4	9.9743 µg/L	9.9743 ppb	22:34:45
1	Cd 226.502†	1479.6	1571.0	-0.0866 µg/L	-0.0866 ppb	22:35:06
1	Co 228.616†	3014.9	3149.5	37.909 µg/L	37.909 ppb	22:35:06
1	Cr 267.716†	11164.7	10846.2	94.354 µg/L	94.354 ppb	22:35:06
1	Cu 324.752†	10893.6	7968.2	48.826 µg/L	48.826 ppb	22:34:45
1	Mn 257.610†	2434554.7	2403868.5	3212.2 µg/L	3212.2 ppb	22:34:45
1	Mo 202.031†	-106.2	-70.1	2.1994 µg/L	2.1994 ppb	22:35:06
1	Ni 231.604†	6215.8	6215.8	78.180 µg/L	78.180 ppb	22:35:06
1	P 214.914†	4973.4	4906.1	1113.5 µg/L	1113.5 ppb	22:35:06
1	Pb 220.353†	1416.0	1301.3	83.768 µg/L	83.768 ppb	22:35:06
1	S 181.975 Axial†	1016.3	915.8	750.73 µg/L	750.73 ppb	22:35:06
1	Sb 206.836†	93.3	14.1	-1.0046 µg/L	-1.0046 ppb	22:35:06
1	Se 196.026†	-78.4	-91.0	-0.758 µg/L	-0.758 ppb	22:35:06
1	SiO2†	797702.9	785952.7	84085 µg/L	84085 ppb	22:34:45
1	Si 251.611†	2435670.5	2404197.4	38915 µg/L	38915 ppb	22:34:45
1	Sn 189.927†	42.4	44.4	11.318 µg/L	11.318 ppb	22:35:06
1	Ti 334.940†	2472256.7	2440388.1	2444.4 µg/L	2444.4 ppb	22:34:45
1	Tl 190.801†	-401.5	-279.3	-3.6550 µg/L	-3.6550 ppb	22:35:06
1	U 409.014†	-5852.0	-5494.9	-336.21 µg/L	-336.21 ppb	22:34:45
1	V 292.402†	32811.5	32090.4	157.30 µg/L	157.30 ppb	22:34:45
1	Zn 213.857†	59200.1	57933.6	349.85 µg/L	349.85 ppb	22:34:45
2	Sc RADIAL	153716.9	153716.9	104 %		22:34:23
2	Al 396.153Radial†	323245.9	310929.1	64074 µg/L	64074 ppb	22:34:23
2	Ca 317.933Radial†	411355.0	394903.0	23760 µg/L	23760 ppb	22:34:23
2	Fe 238.204 Radial†	1639641.5	1576706.0	106090 µg/L	106090 ppb	22:34:21
2	K 766.490 Radial†	35704.8	33024.6	13572 µg/L	13572 ppb	22:34:23
2	Mg 279.077 IEC†	37514.3	35908.8	14639 µg/L	14639 ppb	22:34:23
2	Na 589.592 Radial†	5415.9	4001.9	595.58 µg/L	595.58 ppb	22:34:23
2	Sr 421.552†	87570.7	84438.6	194.60 µg/L	194.60 ppb	22:34:23
2	Sc 361.383	1779389.0	1779389.0	101.39 %		22:35:08
2	Y 371.029	1205626.6	1205626.6	113.31 %		22:35:08
2	Ag 328.068†	4033.1	530.9	1.5358 µg/L	1.5358 ppb	22:35:08
2	As 188.979†	2.2	19.8	31.594 µg/L	31.594 ppb	22:35:29
2	B 249.677†	5249.9	1947.9	31.609 µg/L	31.609 ppb	22:35:08
2	Ba 233.527†	168489.4	166349.5	723.05 µg/L	723.05 ppb	22:35:08
2	Be 313.107†	33262.9	33594.0	9.9776 µg/L	9.9776 ppb	22:35:08
2	Cd 226.502†	1526.4	1615.6	-0.0267 µg/L	-0.0267 ppb	22:35:29
2	Co 228.616†	3043.6	3174.5	38.124 µg/L	38.124 ppb	22:35:29
2	Cr 267.716†	11222.5	10890.6	94.811 µg/L	94.811 ppb	22:35:29
2	Cu 324.752†	10951.5	8012.9	49.355 µg/L	49.355 ppb	22:35:08
2	Mn 257.610†	2434854.5	2401411.8	3208.9 µg/L	3208.9 ppb	22:35:08
2	Mo 202.031†	-79.4	-43.6	3.1361 µg/L	3.1361 ppb	22:35:29
2	Ni 231.604†	6218.3	6211.3	78.124 µg/L	78.124 ppb	22:35:29
2	P 214.914†	4987.1	4913.9	1113.8 µg/L	1113.8 ppb	22:35:29
2	Pb 220.353†	1388.1	1272.2	81.921 µg/L	81.921 ppb	22:35:29



2	S 181.975 Axial†	1011.4	909.9	745.87 µg/L	745.87 ppb	22:35:29
2	Sb 206.836†	84.5	5.3	-2.1888 µg/L	-2.1888 ppb	22:35:29
2	Se 196.026†	-83.2	-95.7	-1.81 µg/L	-1.81 ppb	22:35:29
2	SiO2†	797584.1	784933.7	83976 µg/L	83976 ppb	22:35:08
2	Si 251.611†	2436277.0	2402041.7	38880 µg/L	38880 ppb	22:35:08
2	Sn 189.927†	38.7	40.7	11.068 µg/L	11.068 ppb	22:35:29
2	Ti 334.940†	2476845.0	2442118.5	2446.1 µg/L	2446.1 ppb	22:35:08
2	Tl 190.801†	-413.9	-291.1	-5.2360 µg/L	-5.2360 ppb	22:35:29
2	U 409.014†	-5870.2	-5506.2	-337.52 µg/L	-337.52 ppb	22:35:08
2	V 292.402†	32731.0	31974.0	156.44 µg/L	156.44 ppb	22:35:08
2	Zn 213.857†	59285.6	57951.0	349.71 µg/L	349.71 ppb	22:35:08
3	Sc RADIAL	152043.6	152043.6	103 %		22:34:27
3	Al 396.153Radial†	319693.2	310896.1	64067 µg/L	64067 ppb	22:34:27
3	Ca 317.933Radial†	406540.4	394575.5	23741 µg/L	23741 ppb	22:34:27
3	Fe 238.204 Radial†	1641331.1	1595702.4	107370 µg/L	107370 ppb	22:34:25
3	K 766.490 Radial†	35158.5	32871.3	13509 µg/L	13509 ppb	22:34:27
3	Mg 279.077 IEC†	37100.6	35903.6	14636 µg/L	14636 ppb	22:34:27
3	Na 589.592 Radial†	5387.7	4031.8	600.18 µg/L	600.18 ppb	22:34:27
3	Sr 421.552†	86994.1	84804.8	195.45 µg/L	195.45 ppb	22:34:27
3	Sc 361.383	1787612.1	1787612.1	101.85 %		22:35:31
3	Y 371.029	1210173.1	1210173.1	113.73 %		22:35:31
3	Ag 328.068†	4070.6	549.4	1.6198 µg/L	1.6198 ppb	22:35:31
3	As 188.979†	18.9	36.2	37.591 µg/L	37.591 ppb	22:35:51
3	B 249.677†	5271.2	1945.0	31.563 µg/L	31.563 ppb	22:35:31
3	Ba 233.527†	169614.3	166689.5	724.52 µg/L	724.52 ppb	22:35:31
3	Be 313.107†	33531.8	33707.1	10.014 µg/L	10.014 ppb	22:35:31
3	Cd 226.502†	1500.7	1583.4	-0.3819 µg/L	-0.3819 ppb	22:35:51
3	Co 228.616†	3034.4	3151.6	37.750 µg/L	37.750 ppb	22:35:51
3	Cr 267.716†	11244.8	10861.6	94.601 µg/L	94.601 ppb	22:35:51
3	Cu 324.752†	10910.8	7923.3	49.170 µg/L	49.170 ppb	22:35:31
3	Mn 257.610†	2454040.7	2409201.3	3219.3 µg/L	3219.3 ppb	22:35:31
3	Mo 202.031†	-91.7	-55.3	2.8133 µg/L	2.8133 ppb	22:35:51
3	Ni 231.604†	6228.3	6192.8	77.892 µg/L	77.892 ppb	22:35:51
3	P 214.914†	5007.5	4911.3	1112.3 µg/L	1112.3 ppb	22:35:51
3	Pb 220.353†	1408.1	1285.5	82.694 µg/L	82.694 ppb	22:35:51
3	S 181.975 Axial†	1021.1	914.8	749.91 µg/L	749.91 ppb	22:35:51
3	Sb 206.836†	92.6	12.9	-1.2086 µg/L	-1.2086 ppb	22:35:51
3	Se 196.026†	-79.4	-91.5	0.298 µg/L	0.298 ppb	22:35:51
3	SiO2†	803560.9	787182.9	84217 µg/L	84217 ppb	22:35:31
3	Si 251.611†	2454501.6	2408880.7	38991 µg/L	38991 ppb	22:35:31
3	Sn 189.927†	35.5	37.4	10.854 µg/L	10.854 ppb	22:35:51
3	Ti 334.940†	2491678.7	2445444.3	2449.5 µg/L	2449.5 ppb	22:35:31
3	Tl 190.801†	-400.5	-276.2	-3.1551 µg/L	-3.1551 ppb	22:35:51
3	U 409.014†	-5754.5	-5366.0	-328.91 µg/L	-328.91 ppb	22:35:31
3	V 292.402†	33046.7	32135.4	157.16 µg/L	157.16 ppb	22:35:31
3	Zn 213.857†	59853.1	58239.2	351.37 µg/L	351.37 ppb	22:35:31

Mean Data: 248520011|962575|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1781450.9	101.50	%	0.310			0.30%
Sc RADIAL	153245.3	104	%	0.7			0.68%
Y 371.029	1206394.6	113.38	%	0.325			0.29%
Ag 328.068†	629.6	1.9389	µg/L	0.62683	1.9389 ppb	0.62683	32.33%
Al 396.153Radial†	310706.1	64028	µg/L	73.8	64028 ppb	73.8	0.12%
As 188.979†	29.2	34.788	µg/L	3.0178	34.788 ppb	3.0178	8.67%
B 249.677†	1950.6	31.655	µg/L	0.1209	31.655 ppb	0.1209	0.38%
Ba 233.527†	166476.8	723.61	µg/L	0.791	723.61 ppb	0.791	0.11%
Be 313.107†	33627.9	9.9887	µg/L	0.02213	9.9887 ppb	0.02213	0.22%
Ca 317.933Radial†	394989.1	23766	µg/L	27.8	23766 ppb	27.8	0.12%
Cd 226.502†	1590.0	-0.1650	µg/L	0.19018	-0.1650 ppb	0.19018	115.23%
Co 228.616†	3158.5	37.928	µg/L	0.1878	37.928 ppb	0.1878	0.50%
Cr 267.716†	10866.1	94.589	µg/L	0.2283	94.589 ppb	0.2283	0.24%
Cu 324.752†	7968.1	49.117	µg/L	0.2685	49.117 ppb	0.2685	0.55%
Fe 238.204 Radial†	1571454.6	105740	µg/L	1834.0	105740 ppb	1834.0	1.73%
K 766.490 Radial†	32951.1	13541	µg/L	31.6	13541 ppb	31.6	0.23%
Mg 279.077 IEC†	35900.6	14636	µg/L	3.0	14636 ppb	3.0	0.02%
Mn 257.610†	2404827.2	3213.5	µg/L	5.32	3213.5 ppb	5.32	0.17%
Mo 202.031†	-56.3	2.7163	µg/L	0.47587	2.7163 ppb	0.47587	17.52%
Na 589.592 Radial†	4027.8	599.55	µg/L	3.685	599.55 ppb	3.685	0.61%

Ni 231.604†	6206.6	78.065 µg/L	0.1530	78.065 ppb	0.1530	0.20%
P 214.914†	4910.4	1113.2 µg/L	0.78	1113.2 ppb	0.78	0.07%
Pb 220.353†	1286.4	82.794 µg/L	0.9274	82.794 ppb	0.9274	1.12%
S 181.975 Axial†	913.5	748.84 µg/L	2.598	748.84 ppb	2.598	0.35%
Sb 206.836†	10.7	-1.4673 µg/L	0.63307	-1.4673 ppb	0.63307	43.14%
Se 196.026†	-92.7	-0.757 µg/L	1.0548	-0.757 ppb	1.0548	139.30%
SiO2†	786023.1	84093 µg/L	120.5	84093 ppb	120.5	0.14%
Si 251.611†	2405039.9	38929 µg/L	56.6	38929 ppb	56.6	0.15%
Sn 189.927†	40.8	11.080 µg/L	0.2323	11.080 ppb	0.2323	2.10%
Sr 421.552†	84660.6	195.11 µg/L	0.450	195.11 ppb	0.450	0.23%
Ti 334.940†	2442650.3	2446.7 µg/L	2.57	2446.7 ppb	2.57	0.11%
Tl 190.801†	-282.2	-4.0154 µg/L	1.08625	-4.0154 ppb	1.08625	27.05%
U 409.014†	-5455.7	-334.21 µg/L	4.641	-334.21 ppb	4.641	1.39%
Concentration less than lower limit for U 409.014.						
V 292.402†	32066.6	156.97 µg/L	0.460	156.97 ppb	0.460	0.29%
Zn 213.857†	58041.3	350.31 µg/L	0.920	350.31 ppb	0.920	0.26%

Sequence No.: 152

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/30/2010 22:35:59

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	151223.9	151223.9	102 %		22:36:33
1	Al 396.153Radial†	26181.7	25657.0	5263.5 µg/L	5263.5 ppb	22:36:33
1	Ca 317.933Radial†	88233.7	85555.4	5147.7 µg/L	5147.7 ppb	22:36:33
1	Fe 238.204 Radial†	78424.2	76523.3	5149.2 µg/L	5149.2 ppb	22:36:33
1	K 766.490 Radial†	14576.4	12936.4	5319.9 µg/L	5319.9 ppb	22:36:33
1	Mg 279.077 IEC†	13377.2	12908.2	5303.2 µg/L	5303.2 ppb	22:36:33
1	Na 589.592 Radial†	70337.6	67552.4	10253 µg/L	10253 ppb	22:36:33
1	Sr 421.552†	231189.5	226222.4	521.82 µg/L	521.82 ppb	22:36:31
1	Sc 361.383	1754754.8	1754754.8	99.982 %		22:36:46
1	Y 371.029	1047209.1	1047209.1	98.418 %		22:36:46
1	Ag 328.068†	130771.9	127348.8	512.57 µg/L	512.57 ppb	22:36:46
1	As 188.979†	1483.1	1501.0	531.15 µg/L	531.15 ppb	22:37:06
1	B 249.677†	34368.6	31144.6	506.00 µg/L	506.00 ppb	22:36:46
1	Ba 233.527†	117399.9	117583.6	512.39 µg/L	512.39 ppb	22:36:46
1	Be 313.107†	1717423.6	1718524.9	515.89 µg/L	515.89 ppb	22:36:46
1	Cd 226.502†	74382.5	74506.2	511.26 µg/L	511.26 ppb	22:36:46
1	Co 228.616†	37930.1	38109.5	515.70 µg/L	515.70 ppb	22:36:46
1	Cr 267.716†	60505.7	60338.2	508.27 µg/L	508.27 ppb	22:36:46
1	Cu 324.752†	123538.6	120772.4	510.50 µg/L	510.50 ppb	22:36:46
1	Mn 257.610†	383748.1	383643.0	512.56 µg/L	512.56 ppb	22:36:46
1	Mo 202.031†	15963.6	16001.3	509.46 µg/L	509.46 ppb	22:37:06
1	Ni 231.604†	40814.1	40899.5	514.42 µg/L	514.42 ppb	22:36:46
1	P 214.914†	10679.8	10676.8	2537.9 µg/L	2537.9 ppb	22:37:06
1	Pb 220.353†	8424.7	8329.3	511.63 µg/L	511.63 ppb	22:37:06
1	S 181.975 Axial†	1315.2	1227.7	1010.7 µg/L	1010.7 ppb	22:37:06
1	Sb 206.836†	3978.1	3900.8	512.65 µg/L	512.65 ppb	22:37:06
1	Se 196.026†	1297.1	1283.8	516 µg/L	516 ppb	22:37:06
1	SiO2†	52876.9	51133.5	5448.6 µg/L	5448.6 ppb	22:36:46
1	Si 251.611†	159159.0	158239.6	2551.1 µg/L	2551.1 ppb	22:36:46
1	Sn 189.927†	7387.4	7391.3	513.43 µg/L	513.43 ppb	22:37:06
1	Ti 334.940†	510717.7	509926.0	510.20 µg/L	510.20 ppb	22:36:46
1	Tl 190.801†	3699.3	3817.0	520.62 µg/L	520.62 ppb	22:37:06
1	U 409.014†	7357.5	7642.6	509.67 µg/L	509.67 ppb	22:36:46
1	V 292.402†	95804.1	95511.8	513.86 µg/L	513.86 ppb	22:36:46
1	Zn 213.857†	83127.9	82618.6	508.37 µg/L	508.37 ppb	22:36:46
2	Sc RADIAL	149879.8	149879.8	101 %		22:36:37
2	Al 396.153Radial†	25951.4	25659.3	5263.9 µg/L	5263.9 ppb	22:36:37
2	Ca 317.933Radial†	86601.4	84718.9	5097.3 µg/L	5097.3 ppb	22:36:37
2	Fe 238.204 Radial†	76996.2	75802.4	5100.6 µg/L	5100.6 ppb	22:36:37
2	K 766.490 Radial†	14355.5	12846.4	5282.9 µg/L	5282.9 ppb	22:36:37
2	Mg 279.077 IEC†	13147.4	12798.8	5258.4 µg/L	5258.4 ppb	22:36:37
2	Na 589.592 Radial†	69141.7	66989.4	10167 µg/L	10167 ppb	22:36:37
2	Sr 421.552†	230617.7	227685.1	525.20 µg/L	525.20 ppb	22:36:35
2	Sc 361.383	1749851.8	1749851.8	99.702 %		22:37:09
2	Y 371.029	1044750.7	1044750.7	98.187 %		22:37:09
2	Ag 328.068†	129348.5	126287.7	508.31 µg/L	508.31 ppb	22:37:09
2	As 188.979†	1488.5	1510.6	534.44 µg/L	534.44 ppb	22:37:29
2	B 249.677†	33975.9	30847.0	501.18 µg/L	501.18 ppb	22:37:09
2	Ba 233.527†	115925.8	116434.1	507.39 µg/L	507.39 ppb	22:37:09
2	Be 313.107†	1694572.6	1700418.7	510.46 µg/L	510.46 ppb	22:37:09
2	Cd 226.502†	73157.1	73485.6	504.26 µg/L	504.26 ppb	22:37:09
2	Co 228.616†	37192.7	37476.2	507.13 µg/L	507.13 ppb	22:37:09
2	Cr 267.716†	59705.4	59705.1	502.92 µg/L	502.92 ppb	22:37:09
2	Cu 324.752†	122241.1	119817.2	506.47 µg/L	506.47 ppb	22:37:09
2	Mn 257.610†	378752.7	379708.2	507.30 µg/L	507.30 ppb	22:37:09
2	Mo 202.031†	15968.5	16051.0	511.03 µg/L	511.03 ppb	22:37:29
2	Ni 231.604†	40089.9	40287.5	506.73 µg/L	506.73 ppb	22:37:09
2	P 214.914†	10752.0	10779.1	2562.4 µg/L	2562.4 ppb	22:37:29
2	Pb 220.353†	8477.5	8405.9	516.31 µg/L	516.31 ppb	22:37:29

2	S 181.975 Axial†	1331.0	1247.3	1026.8 µg/L	1026.8 ppb	22:37:29
2	Sb 206.836†	3968.0	3901.8	512.89 µg/L	512.89 ppb	22:37:29
2	Se 196.026†	1300.5	1290.8	519 µg/L	519 ppb	22:37:29
2	SiO2†	52175.4	50578.0	5389.1 µg/L	5389.1 ppb	22:37:09
2	Si 251.611†	157211.6	156732.4	2526.7 µg/L	2526.7 ppb	22:37:09
2	Sn 189.927†	7413.0	7437.6	516.62 µg/L	516.62 ppb	22:37:29
2	Ti 334.940†	504789.1	505411.0	505.68 µg/L	505.68 ppb	22:37:09
2	Tl 190.801†	3694.5	3822.6	521.31 µg/L	521.31 ppb	22:37:29
2	U 409.014†	7486.3	7792.4	518.76 µg/L	518.76 ppb	22:37:09
2	V 292.402†	94650.0	94622.8	509.14 µg/L	509.14 ppb	22:37:09
2	Zn 213.857†	82182.0	81902.8	503.99 µg/L	503.99 ppb	22:37:09
3	Sc RADIAL	146601.0	146601.0	99.2 %		22:36:41
3	Al 396.153Radial†	25910.4	26190.4	5373.5 µg/L	5373.5 ppb	22:36:41
3	Ca 317.933Radial†	86009.1	86032.0	5176.3 µg/L	5176.3 ppb	22:36:41
3	Fe 238.204 Radial†	76503.6	77004.2	5181.5 µg/L	5181.5 ppb	22:36:41
3	K 766.490 Radial†	14227.4	13033.9	5360.0 µg/L	5360.0 ppb	22:36:41
3	Mg 279.077 IEC†	12952.1	12891.9	5296.5 µg/L	5296.5 ppb	22:36:41
3	Na 589.592 Radial†	68978.4	68350.0	10374 µg/L	10374 ppb	22:36:41
3	Sr 421.552†	229822.2	231970.2	535.08 µg/L	535.08 ppb	22:36:39
3	Sc 361.383	1754322.4	1754322.4	99.957 %		22:37:32
3	Y 371.029	1046727.9	1046727.9	98.373 %		22:37:32
3	Ag 328.068†	129641.5	126250.2	508.16 µg/L	508.16 ppb	22:37:32
3	As 188.979†	1477.1	1495.5	529.16 µg/L	529.16 ppb	22:37:52
3	B 249.677†	34156.0	30940.4	502.68 µg/L	502.68 ppb	22:37:32
3	Ba 233.527†	116352.7	116564.9	507.95 µg/L	507.95 ppb	22:37:32
3	Be 313.107†	1702503.6	1704021.8	511.53 µg/L	511.53 ppb	22:37:32
3	Cd 226.502†	73629.6	73771.3	506.21 µg/L	506.21 ppb	22:37:32
3	Co 228.616†	37620.8	37809.4	511.63 µg/L	511.63 ppb	22:37:32
3	Cr 267.716†	59966.9	59814.1	503.85 µg/L	503.85 ppb	22:37:32
3	Cu 324.752†	122577.6	119841.4	506.58 µg/L	506.58 ppb	22:37:32
3	Mn 257.610†	380254.3	380242.4	508.01 µg/L	508.01 ppb	22:37:32
3	Mo 202.031†	15958.4	16000.0	509.41 µg/L	509.41 ppb	22:37:52
3	Ni 231.604†	40388.1	40483.4	509.19 µg/L	509.19 ppb	22:37:32
3	P 214.914†	10707.6	10707.2	2545.2 µg/L	2545.2 ppb	22:37:52
3	Pb 220.353†	8448.1	8354.7	513.19 µg/L	513.19 ppb	22:37:52
3	S 181.975 Axial†	1312.1	1224.9	1008.4 µg/L	1008.4 ppb	22:37:52
3	Sb 206.836†	3948.7	3872.4	508.98 µg/L	508.98 ppb	22:37:52
3	Se 196.026†	1295.7	1282.7	516 µg/L	516 ppb	22:37:52
3	SiO2†	52372.4	50641.8	5396.0 µg/L	5396.0 ppb	22:37:32
3	Si 251.611†	157702.6	156821.8	2528.2 µg/L	2528.2 ppb	22:37:32
3	Sn 189.927†	7376.2	7381.9	512.77 µg/L	512.77 ppb	22:37:52
3	Ti 334.940†	506628.7	505961.1	506.23 µg/L	506.23 ppb	22:37:32
3	Tl 190.801†	3692.5	3811.2	519.78 µg/L	519.78 ppb	22:37:52
3	U 409.014†	7325.4	7612.3	507.54 µg/L	507.54 ppb	22:37:32
3	V 292.402†	95134.5	94865.6	510.40 µg/L	510.40 ppb	22:37:32
3	Zn 213.857†	82599.3	82110.3	505.25 µg/L	505.25 ppb	22:37:32

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1752976.3	99.880 %	0.1547			0.15%
Sc RADIAL	149234.9	101 %	1.6			1.59%
Y 371.029	1046229.2	98.326 %	0.1224			0.12%
Ag 328.068†	126628.9	509.68 µg/L	2.504	509.68 ppb	2.504	0.49%
QC value within limits for Ag 328.068 Recovery = 101.94%						
Al 396.153Radial†	25835.6	5300.3 µg/L	63.35	5300.3 ppb	63.35	1.20%
QC value within limits for Al 396.153Radial Recovery = 106.01%						
As 188.979†	1502.4	531.58 µg/L	2.666	531.58 ppb	2.666	0.50%
QC value within limits for As 188.979 Recovery = 106.32%						
B 249.677†	30977.3	503.29 µg/L	2.467	503.29 ppb	2.467	0.49%
QC value within limits for B 249.677 Recovery = 100.66%						
Ba 233.527†	116860.9	509.24 µg/L	2.741	509.24 ppb	2.741	0.54%
QC value within limits for Ba 233.527 Recovery = 101.85%						
Be 313.107†	1707655.1	512.63 µg/L	2.875	512.63 ppb	2.875	0.56%
QC value within limits for Be 313.107 Recovery = 102.53%						
Ca 317.933Radial†	85435.5	5140.4 µg/L	39.99	5140.4 ppb	39.99	0.78%
QC value within limits for Ca 317.933Radial Recovery = 102.81%						
Cd 226.502†	73921.1	507.24 µg/L	3.615	507.24 ppb	3.615	0.71%
QC value within limits for Cd 226.502 Recovery = 101.45%						
Co 228.616†	37798.4	511.49 µg/L	4.285	511.49 ppb	4.285	0.84%

QC value within limits for Co 228.616	Recovery = 102.30%				
Cr 267.716†	59952.5	505.01 µg/L	2.855	505.01 ppb	2.855 0.57%
QC value within limits for Cr 267.716	Recovery = 101.00%				
Cu 324.752†	120143.7	507.85 µg/L	2.296	507.85 ppb	2.296 0.45%
QC value within limits for Cu 324.752	Recovery = 101.57%				
Fe 238.204 Radial†	76443.3	5143.8 µg/L	40.70	5143.8 ppb	40.70 0.79%
QC value within limits for Fe 238.204 Radial	Recovery = 102.88%				
K 766.490 Radial†	12938.9	5320.9 µg/L	38.56	5320.9 ppb	38.56 0.72%
QC value within limits for K 766.490 Radial	Recovery = 106.42%				
Mg 279.077 IEC†	12866.3	5286.0 µg/L	24.17	5286.0 ppb	24.17 0.46%
QC value within limits for Mg 279.077 IEC	Recovery = 105.72%				
Mn 257.610†	381197.9	509.29 µg/L	2.852	509.29 ppb	2.852 0.56%
QC value within limits for Mn 257.610	Recovery = 101.86%				
Mo 202.031†	16017.4	509.97 µg/L	0.922	509.97 ppb	0.922 0.18%
QC value within limits for Mo 202.031	Recovery = 101.99%				
Na 589.592 Radial†	67630.6	10265 µg/L	103.8	10265 ppb	103.8 1.01%
QC value within limits for Na 589.592 Radial	Recovery = 102.65%				
Ni 231.604†	40556.8	510.11 µg/L	3.931	510.11 ppb	3.931 0.77%
QC value within limits for Ni 231.604	Recovery = 102.02%				
P 214.914†	10721.0	2548.5 µg/L	12.58	2548.5 ppb	12.58 0.49%
QC value within limits for P 214.914	Recovery = 101.94%				
Pb 220.353†	8363.3	513.71 µg/L	2.384	513.71 ppb	2.384 0.46%
QC value within limits for Pb 220.353	Recovery = 102.74%				
S 181.975 Axial†	1233.3	1015.3 µg/L	10.00	1015.3 ppb	10.00 0.99%
QC value within limits for S 181.975 Axial	Recovery = 101.53%				
Sb 206.836†	3891.7	511.51 µg/L	2.189	511.51 ppb	2.189 0.43%
QC value within limits for Sb 206.836	Recovery = 102.30%				
Se 196.026†	1285.8	517 µg/L	1.8	517 ppb	1.8 0.34%
QC value within limits for Se 196.026	Recovery = 103.39%				
SiO2†	50784.4	5411.3 µg/L	32.55	5411.3 ppb	32.55 0.60%
QC value within limits for SiO2	Recovery = 101.19%				
Si 251.611†	157264.6	2535.3 µg/L	13.70	2535.3 ppb	13.70 0.54%
QC value within limits for Si 251.611	Recovery = 101.41%				
Sn 189.927†	7403.6	514.28 µg/L	2.062	514.28 ppb	2.062 0.40%
QC value within limits for Sn 189.927	Recovery = 102.86%				
Sr 421.552†	228625.9	527.37 µg/L	6.891	527.37 ppb	6.891 1.31%
QC value within limits for Sr 421.552	Recovery = 105.47%				
Ti 334.940†	507099.4	507.37 µg/L	2.467	507.37 ppb	2.467 0.49%
QC value within limits for Ti 334.940	Recovery = 101.47%				
Tl 190.801†	3816.9	520.57 µg/L	0.770	520.57 ppb	0.770 0.15%
QC value within limits for Tl 190.801	Recovery = 104.11%				
U 409.014†	7682.5	511.99 µg/L	5.959	511.99 ppb	5.959 1.16%
QC value within limits for U 409.014	Recovery = 102.40%				
V 292.402†	95000.1	511.13 µg/L	2.439	511.13 ppb	2.439 0.48%
QC value within limits for V 292.402	Recovery = 102.23%				
Zn 213.857†	82210.6	505.87 µg/L	2.255	505.87 ppb	2.255 0.45%
QC value within limits for Zn 213.857	Recovery = 101.17%				

All analyte(s) passed QC.

Sequence No.: 153

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/30/2010 22:38:00

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	154071.4	154071.4	104 %		22:38:29
1	Al 396.153Radial†	-56.2	8.9	1.8179 µg/L	1.8179 ppb	22:38:49
1	Ca 317.933Radial†	766.1	37.1	2.2335 µg/L	2.2335 ppb	22:38:49
1	Fe 238.204 Radial†	166.6	19.1	1.2856 µg/L	1.2856 ppb	22:38:49
1	K 766.490 Radial†	1828.0	441.2	181.56 µg/L	181.56 ppb	22:38:29
1	Mg 279.077 IEC†	174.0	-1.8	-0.7230 µg/L	-0.7230 ppb	22:38:49
1	Na 589.592 Radial†	1377.5	115.1	17.310 µg/L	17.310 ppb	22:38:29
1	Sr 421.552†	-216.8	13.6	0.0314 µg/L	0.0314 ppb	22:38:29
1	Sc 361.383	1774625.4	1774625.4	101.11 %		22:39:52
1	Y 371.029	1071402.7	1071402.7	100.69 %		22:39:52
1	Ag 328.068†	3558.8	72.5	0.2944 µg/L	0.2944 ppb	22:39:54
1	As 188.979†	-12.4	5.4	1.8859 µg/L	1.8859 ppb	22:40:14
1	B 249.677†	3271.6	5.2	0.0856 µg/L	0.0856 ppb	22:40:14
1	Ba 233.527†	-130.4	33.2	0.1451 µg/L	0.1451 ppb	22:40:14
1	Be 313.107†	-1037.4	-240.4	-0.0719 µg/L	-0.0719 ppb	22:39:54
1	Cd 226.502†	-89.5	21.5	0.1474 µg/L	0.1474 ppb	22:40:14
1	Co 228.616†	-181.8	-7.4	-0.0996 µg/L	-0.0996 ppb	22:40:14
1	Cr 267.716†	176.1	-4.4	-0.0378 µg/L	-0.0378 ppb	22:40:14
1	Cu 324.752†	2910.7	89.7	0.3787 µg/L	0.3787 ppb	22:39:54
1	Mn 257.610†	271.8	93.2	0.1247 µg/L	0.1247 ppb	22:40:14
1	Mo 202.031†	-21.0	14.0	0.4441 µg/L	0.4441 ppb	22:40:14
1	Ni 231.604†	-100.0	-21.0	-0.2638 µg/L	-0.2638 ppb	22:40:14
1	P 214.914†	11.1	6.0	1.4212 µg/L	1.4212 ppb	22:40:14
1	Pb 220.353†	82.0	-15.9	-0.9723 µg/L	-0.9723 ppb	22:40:14
1	Sb 181.975 Axial†	93.6	4.8	3.9610 µg/L	3.9610 ppb	22:40:14
1	Sb 206.836†	78.9	-0.1	0.0008 µg/L	0.0008 ppb	22:40:14
1	Se 196.026†	2.7	-10.9	-4.37 µg/L	-4.37 ppb	22:40:14
1	SiO2†	1751.6	-20.8	-2.2401 µg/L	-2.2401 ppb	22:40:14
1	Si 251.611†	916.3	-42.5	-0.6940 µg/L	-0.6940 ppb	22:39:54
1	Sn 189.927†	-1.7	0.9	0.0607 µg/L	0.0607 ppb	22:40:14
1	Ti 334.940†	767.3	-126.8	-0.1273 µg/L	-0.1273 ppb	22:39:54
1	Tl 190.801†	-113.1	5.2	0.7055 µg/L	0.7055 ppb	22:40:14
1	U 409.014†	-271.5	15.3	0.9828 µg/L	0.9828 ppb	22:39:54
1	V 292.402†	394.8	80.6	0.4329 µg/L	0.4329 ppb	22:39:54
1	Zn 213.857†	556.4	25.7	0.1604 µg/L	0.1604 ppb	22:40:14
2	Sc RADIAL	151422.1	151422.1	102 %		22:38:51
2	Al 396.153Radial†	-63.4	1.0	0.1459 µg/L	0.1459 ppb	22:39:12
2	Ca 317.933Radial†	750.7	34.9	2.1001 µg/L	2.1001 ppb	22:39:12
2	Fe 238.204 Radial†	182.1	37.1	2.4950 µg/L	2.4950 ppb	22:39:12
2	K 766.490 Radial†	1544.7	195.3	80.374 µg/L	80.374 ppb	22:38:51
2	Mg 279.077 IEC†	169.2	-3.6	-1.4440 µg/L	-1.4440 ppb	22:39:12
2	Na 589.592 Radial†	1297.1	59.7	8.9873 µg/L	8.9873 ppb	22:38:51
2	Sr 421.552†	-291.5	-62.9	-0.1451 µg/L	-0.1451 ppb	22:38:51
2	Sc 361.383	1771352.9	1771352.9	100.93 %		22:40:16
2	Y 371.029	1069216.6	1069216.6	100.49 %		22:40:16
2	Ag 328.068†	3682.1	201.2	0.8218 µg/L	0.8218 ppb	22:40:18
2	As 188.979†	-13.7	4.1	1.4341 µg/L	1.4341 ppb	22:40:38
2	B 249.677†	3263.8	3.4	0.0554 µg/L	0.0554 ppb	22:40:38
2	Ba 233.527†	-136.8	26.6	0.1163 µg/L	0.1163 ppb	22:40:38
2	Be 313.107†	-504.0	286.2	0.0901 µg/L	0.0901 ppb	22:40:18
2	Cd 226.502†	-106.0	5.0	0.0343 µg/L	0.0343 ppb	22:40:38
2	Co 228.616†	-162.4	11.6	0.1562 µg/L	0.1562 ppb	22:40:38
2	Cr 267.716†	147.3	-32.6	-0.2853 µg/L	-0.2853 ppb	22:40:38
2	Cu 324.752†	2847.4	32.3	0.1479 µg/L	0.1479 ppb	22:40:18
2	Mn 257.610†	284.2	106.0	0.1417 µg/L	0.1417 ppb	22:40:38
2	Mo 202.031†	1.3	36.0	1.1462 µg/L	1.1462 ppb	22:40:38
2	Ni 231.604†	-71.9	6.6	0.0835 µg/L	0.0835 ppb	22:40:38
2	P 214.914†	10.6	5.5	1.2949 µg/L	1.2949 ppb	22:40:38
2	Pb 220.353†	62.4	-35.1	-2.1590 µg/L	-2.1590 ppb	22:40:38

2	S 181.975 Axial†	92.0	3.5	2.8526 µg/L	2.8526 ppb	22:40:38
2	Sb 206.836†	104.3	25.3	3.3354 µg/L	3.3354 ppb	22:40:38
2	Se 196.026†	19.8	6.1	2.45 µg/L	2.45 ppb	22:40:38
2	SiO2†	1727.0	-42.1	-4.5334 µg/L	-4.5334 ppb	22:40:38
2	Si 251.611†	868.8	-87.8	-1.4376 µg/L	-1.4376 ppb	22:40:18
2	Sn 189.927†	-1.2	1.3	0.0906 µg/L	0.0906 ppb	22:40:38
2	Ti 334.940†	958.0	63.6	0.0582 µg/L	0.0582 ppb	22:40:18
2	Tl 190.801†	-118.8	-0.7	-0.0846 µg/L	-0.0846 ppb	22:40:38
2	U 409.014†	-60.5	223.8	14.040 µg/L	14.040 ppb	22:40:18
2	V 292.402†	390.3	76.9	0.4279 µg/L	0.4279 ppb	22:40:18
2	Zn 213.857†	541.3	11.8	0.0723 µg/L	0.0723 ppb	22:40:38
3	Sc RADIAL	151124.1	151124.1	102 %		22:39:14
3	Al 396.153Radial†	-32.4	31.2	6.3861 µg/L	6.3861 ppb	22:39:34
3	Ca 317.933Radial†	740.2	26.1	1.5719 µg/L	1.5719 ppb	22:39:34
3	Fe 238.204 Radial†	181.9	37.2	2.5064 µg/L	2.5064 ppb	22:39:34
3	K 766.490 Radial†	1626.2	278.0	114.40 µg/L	114.40 ppb	22:39:14
3	Mg 279.077 IEC†	157.7	-14.5	-5.9155 µg/L	-5.9155 ppb	22:39:34
3	Na 589.592 Radial†	1364.3	127.9	19.322 µg/L	19.322 ppb	22:39:14
3	Sr 421.552†	-30.4	191.9	0.4426 µg/L	0.4426 ppb	22:39:14
3	Sc 361.383	1745446.1	1745446.1	99.451 %		22:40:40
3	Y 371.029	1054685.2	1054685.2	99.120 %		22:40:40
3	Ag 328.068†	3863.1	437.3	1.7470 µg/L	1.7470 ppb	22:40:42
3	As 188.979†	-15.8	1.8	0.6451 µg/L	0.6451 ppb	22:41:02
3	B 249.677†	3259.8	47.5	0.7738 µg/L	0.7738 ppb	22:41:02
3	Ba 233.527†	-141.6	19.8	0.0866 µg/L	0.0866 ppb	22:41:02
3	Be 313.107†	-534.9	247.7	0.0761 µg/L	0.0761 ppb	22:40:42
3	Cd 226.502†	-97.5	12.0	0.0822 µg/L	0.0822 ppb	22:41:02
3	Co 228.616†	-171.6	-0.1	-0.0017 µg/L	-0.0017 ppb	22:41:02
3	Cr 267.716†	195.5	18.0	0.1476 µg/L	0.1476 ppb	22:41:02
3	Cu 324.752†	2705.0	-69.0	-0.2858 µg/L	-0.2858 ppb	22:40:42
3	Mn 257.610†	287.0	113.0	0.1512 µg/L	0.1512 ppb	22:41:02
3	Mo 202.031†	-1.8	33.0	1.0490 µg/L	1.0490 ppb	22:41:02
3	Ni 231.604†	-68.9	8.7	0.1089 µg/L	0.1089 ppb	22:41:02
3	P 214.914†	-7.2	-12.2	-2.9189 µg/L	-2.9189 ppb	22:41:02
3	Pb 220.353†	99.9	3.5	0.2155 µg/L	0.2155 ppb	22:41:02
3	S 181.975 Axial†	97.2	10.0	8.2082 µg/L	8.2082 ppb	22:41:02
3	Sb 206.836†	82.8	5.1	0.6862 µg/L	0.6862 ppb	22:41:02
3	Se 196.026†	18.5	5.0	2.01 µg/L	2.01 ppb	22:41:02
3	SiO2†	1741.2	-2.4	-0.2861 µg/L	-0.2861 ppb	22:41:02
3	Si 251.611†	813.9	-130.2	-2.1228 µg/L	-2.1228 ppb	22:40:42
3	Sn 189.927†	-0.4	2.2	0.1500 µg/L	0.1500 ppb	22:41:02
3	Ti 334.940†	931.4	50.9	0.0491 µg/L	0.0491 ppb	22:40:42
3	Tl 190.801†	-116.6	-0.1	-0.0149 µg/L	-0.0149 ppb	22:41:02
3	U 409.014†	-190.1	92.6	5.8065 µg/L	5.8065 ppb	22:40:42
3	V 292.402†	335.6	27.6	0.1617 µg/L	0.1617 ppb	22:40:42
3	Zn 213.857†	574.9	53.5	0.3311 µg/L	0.3311 ppb	22:41:02

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1763808.1	100.50 %	0.911			0.91%
Sc RADIAL	152205.9	103 %	1.1			1.07%
Y 371.029	1065101.5	100.10 %	0.854			0.85%
Ag 328.068†	237.0	0.9544 µg/L	0.73531	0.9544 ppb	0.73531	77.04%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	13.7	2.7833 µg/L	3.23019	2.7833 ppb	3.23019	116.06%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.8	1.3217 µg/L	0.62799	1.3217 ppb	0.62799	47.51%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	18.7	0.3050 µg/L	0.40633	0.3050 ppb	0.40633	133.24%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	26.5	0.1160 µg/L	0.02925	0.1160 ppb	0.02925	25.22%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	97.8	0.0315 µg/L	0.08975	0.0315 ppb	0.08975	285.31%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	32.7	1.9685 µg/L	0.34987	1.9685 ppb	0.34987	17.77%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	12.8	0.0879 µg/L	0.05678	0.0879 ppb	0.05678	64.56%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	1.4	0.0183 µg/L	0.12908	0.0183 ppb	0.12908	704.62%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	-6.3	-0.0585 µg/L	0.21717	-0.0585 ppb	0.21717 371.31%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	17.6	0.0803 µg/L	0.33737	0.0803 ppb	0.33737 420.30%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	31.1	2.0957 µg/L	0.70154	2.0957 ppb	0.70154 33.48%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	304.8	125.45 µg/L	51.492	125.45 ppb	51.492 41.05%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	-6.6	-2.6941 µg/L	2.81296	-2.6941 ppb	2.81296 104.41%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	104.1	0.1392 µg/L	0.01346	0.1392 ppb	0.01346 9.67%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	27.7	0.8797 µg/L	0.38041	0.8797 ppb	0.38041 43.24%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	100.9	15.207 µg/L	5.4792	15.207 ppb	5.4792 36.03%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	-1.9	-0.0238 µg/L	0.20823	-0.0238 ppb	0.20823 875.07%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	-0.2	-0.0676 µg/L	2.47010	-0.0676 ppb	2.47010 >999.9%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	-15.8	-0.9719 µg/L	1.18726	-0.9719 ppb	1.18726 122.16%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	6.1	5.0073 µg/L	2.82696	5.0073 ppb	2.82696 56.46%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	10.1	1.3408 µg/L	1.76107	1.3408 ppb	1.76107 131.34%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	0.1	0.030 µg/L	3.8146	0.030 ppb	3.8146 >999.9%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	-21.7	-2.3532 µg/L	2.12590	-2.3532 ppb	2.12590 90.34%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	-86.8	-1.4181 µg/L	0.71463	-1.4181 ppb	0.71463 50.39%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	1.5	0.1004 µg/L	0.04546	0.1004 ppb	0.04546 45.27%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	47.5	0.1097 µg/L	0.30156	0.1097 ppb	0.30156 275.02%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	-4.1	-0.0066 µg/L	0.10456	-0.0066 ppb	0.10456 >999.9%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	1.5	0.2020 µg/L	0.43745	0.2020 ppb	0.43745 216.55%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	110.5	6.9432 µg/L	6.60250	6.9432 ppb	6.60250 95.09%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	61.7	0.3408 µg/L	0.15517	0.3408 ppb	0.15517 45.53%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	30.3	0.1880 µg/L	0.13156	0.1880 ppb	0.13156 69.99%
	QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.



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Analysis Begun

Start Time: 3/31/2010 18:36:27

Plasma On Time: 3/29/2010 18:07:58

Logged In Analyst: optima4

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C0022701 Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\033110.sif

Batch ID:

Results Data Set: 033110B

Results Library: C:\pe\optima4\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 3/31/2010 18:36:30

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Analysis Time
1	Sc RADIAL	146983.1	146983.1	101 %	18:37:03
1	Al 396.153Radial†	-46.6	-46.3	[0.00] µg/L	18:37:23
1	Ca 317.933Radial†	562.9	558.9	[0.00] µg/L	18:37:23
1	Fe 238.204 Radial†	148.8	147.8	[0.00] µg/L	18:37:23
1	K 766.490 Radial†	1565.6	1554.3	[0.00] µg/L	18:37:03
1	Mg 279.077 IEC†	207.4	205.9	[0.00] µg/L	18:37:23
1	Na 589.592 Radial†	1216.0	1207.3	[0.00] µg/L	18:37:03
1	Sr 421.552†	-110.9	-110.1	[0.00] µg/L	18:37:03
1	Sc 361.383	1704607.6	1704607.6	99.208 %	18:38:25
1	Y 371.029	1018376.3	1018376.3	99.190 %	18:38:25
1	Ag 328.068†	3963.8	3995.4	[0.00] µg/L	18:38:27
1	As 188.979†	-17.7	-17.9	[0.00] µg/L	18:38:48
1	B 249.677†	3489.7	3517.5	[0.00] µg/L	18:38:27
1	Ba 233.527†	-145.9	-147.0	[0.00] µg/L	18:38:48
1	Be 313.107†	-965.4	-973.1	[0.00] µg/L	18:38:27
1	Cd 226.502†	-106.0	-106.8	[0.00] µg/L	18:38:48
1	Co 228.616†	-174.9	-176.3	[0.00] µg/L	18:38:48
1	Cr 267.716†	129.8	130.8	[0.00] µg/L	18:38:48
1	Cu 324.752†	2846.5	2869.3	[0.00] µg/L	18:38:27
1	Mn 257.610†	253.9	255.9	[0.00] µg/L	18:38:48
1	Mo 202.031†	-24.9	-25.1	[0.00] µg/L	18:38:48
1	Ni 231.604†	-72.6	-73.1	[0.00] µg/L	18:38:48
1	P 214.914†	-29.6	-29.8	[0.00] µg/L	18:38:48
1	Pb 220.353†	106.5	107.4	[0.00] µg/L	18:38:48
1	S 181.975 Axial†	102.6	103.4	[0.00] µg/L	18:38:48
1	Sb 206.836†	81.9	82.6	[0.00] µg/L	18:38:48
1	Se 196.026†	14.5	14.6	[0.00] µg/L	18:38:48
1	SiO2†	1812.7	1827.1	[0.00] µg/L	18:38:27
1	Si 251.611†	747.0	752.9	[0.00] µg/L	18:38:27
1	Sn 189.927†	-6.9	-6.9	[0.00] µg/L	18:38:48
1	Ti 334.940†	920.6	928.0	[0.00] µg/L	18:38:27
1	Tl 190.801†	-108.2	-109.0	[0.00] µg/L	18:38:48
1	U 409.014†	-161.2	-162.4	[0.00] µg/L	18:38:27
1	V 292.402†	343.5	346.2	[0.00] µg/L	18:38:27
1	Zn 213.857†	560.7	565.2	[0.00] µg/L	18:38:48
2	Sc RADIAL	145077.9	145077.9	99.4 %	18:37:25
2	Al 396.153Radial†	-80.7	-81.2	[0.00] µg/L	18:37:45
2	Ca 317.933Radial†	555.7	559.0	[0.00] µg/L	18:37:45
2	Fe 238.204 Radial†	152.0	152.9	[0.00] µg/L	18:37:45
2	K 766.490 Radial†	1581.8	1591.1	[0.00] µg/L	18:37:25
2	Mg 279.077 IEC†	207.4	208.6	[0.00] µg/L	18:37:45
2	Na 589.592 Radial†	1309.5	1317.2	[0.00] µg/L	18:37:25
2	Sr 421.552†	-50.0	-50.3	[0.00] µg/L	18:37:25
2	Sc 361.383	1730517.4	1730517.4	100.72 %	18:38:50
2	Y 371.029	1034150.1	1034150.1	100.73 %	18:38:50
2	Ag 328.068†	4314.8	4284.1	[0.00] µg/L	18:38:52
2	As 188.979†	-23.3	-23.2	[0.00] µg/L	18:39:12

2	B 249.677†	3487.4	3462.6	[0.00]	µg/L	18:38:52
2	Ba 233.527†	-138.3	-137.3	[0.00]	µg/L	18:39:12
2	Be 313.107†	-1181.9	-1173.5	[0.00]	µg/L	18:38:52
2	Cd 226.502†	-128.3	-127.3	[0.00]	µg/L	18:39:12
2	Co 228.616†	-207.1	-205.6	[0.00]	µg/L	18:39:12
2	Cr 267.716†	187.0	185.7	[0.00]	µg/L	18:39:12
2	Cu 324.752†	3037.7	3016.1	[0.00]	µg/L	18:38:52
2	Mn 257.610†	235.4	233.7	[0.00]	µg/L	18:39:12
2	Mo 202.031†	-14.8	-14.7	[0.00]	µg/L	18:39:12
2	Ni 231.604†	-77.5	-77.0	[0.00]	µg/L	18:39:12
2	P 214.914†	-7.1	-7.0	[0.00]	µg/L	18:39:12
2	Pb 220.353†	82.7	82.1	[0.00]	µg/L	18:39:12
2	S 181.975 Axial†	101.1	100.4	[0.00]	µg/L	18:39:12
2	Sb 206.836†	84.6	84.0	[0.00]	µg/L	18:39:12
2	Se 196.026†	9.6	9.5	[0.00]	µg/L	18:39:12
2	SiO2†	1764.6	1752.0	[0.00]	µg/L	18:38:52
2	Si 251.611†	909.0	902.5	[0.00]	µg/L	18:38:52
2	Sn 189.927†	4.1	4.0	[0.00]	µg/L	18:39:12
2	Ti 334.940†	1042.4	1035.0	[0.00]	µg/L	18:38:52
2	Tl 190.801†	-124.1	-123.3	[0.00]	µg/L	18:39:12
2	U 409.014†	-390.5	-387.7	[0.00]	µg/L	18:38:52
2	V 292.402†	355.1	352.6	[0.00]	µg/L	18:38:52
2	Zn 213.857†	564.8	560.8	[0.00]	µg/L	18:39:12
3	Sc RADIAL	145728.3	145728.3	99.9 %		18:37:47
3	Al 396.153Radial†	-62.0	-62.1	[0.00]	µg/L	18:38:07
3	Ca 317.933Radial†	563.1	563.9	[0.00]	µg/L	18:38:07
3	Fe 238.204 Radial†	143.5	143.7	[0.00]	µg/L	18:38:07
3	K 766.490 Radial†	1486.8	1488.8	[0.00]	µg/L	18:37:47
3	Mg 279.077 IEC†	157.4	157.6	[0.00]	µg/L	18:38:07
3	Na 589.592 Radial†	1346.0	1347.9	[0.00]	µg/L	18:37:47
3	Sr 421.552†	-245.1	-245.5	[0.00]	µg/L	18:37:47
3	Sc 361.383	1719527.8	1719527.8	100.08 %		18:39:14
3	Y 371.029	1027539.8	1027539.8	100.08 %		18:39:14
3	Ag 328.068†	3997.7	3994.6	[0.00]	µg/L	18:39:16
3	As 188.979†	-20.0	-20.0	[0.00]	µg/L	18:39:36
3	B 249.677†	3540.3	3537.6	[0.00]	µg/L	18:39:16
3	Ba 233.527†	-123.3	-123.2	[0.00]	µg/L	18:39:36
3	Be 313.107†	-1048.2	-1047.4	[0.00]	µg/L	18:39:16
3	Cd 226.502†	-120.5	-120.4	[0.00]	µg/L	18:39:36
3	Co 228.616†	-189.2	-189.0	[0.00]	µg/L	18:39:36
3	Cr 267.716†	219.3	219.2	[0.00]	µg/L	18:39:36
3	Cu 324.752†	3033.6	3031.3	[0.00]	µg/L	18:39:16
3	Mn 257.610†	222.3	222.2	[0.00]	µg/L	18:39:36
3	Mo 202.031†	-20.4	-20.4	[0.00]	µg/L	18:39:36
3	Ni 231.604†	-79.5	-79.4	[0.00]	µg/L	18:39:36
3	P 214.914†	-17.1	-17.1	[0.00]	µg/L	18:39:36
3	Pb 220.353†	69.7	69.7	[0.00]	µg/L	18:39:36
3	S 181.975 Axial†	111.4	111.3	[0.00]	µg/L	18:39:36
3	Sb 206.836†	76.0	76.0	[0.00]	µg/L	18:39:36
3	Se 196.026†	21.7	21.7	[0.00]	µg/L	18:39:36
3	SiO2†	1748.3	1747.0	[0.00]	µg/L	18:39:16
3	Si 251.611†	854.9	854.3	[0.00]	µg/L	18:39:16
3	Sn 189.927†	-0.5	-0.5	[0.00]	µg/L	18:39:36
3	Ti 334.940†	895.3	894.7	[0.00]	µg/L	18:39:16
3	Tl 190.801†	-117.8	-117.8	[0.00]	µg/L	18:39:36
3	U 409.014†	-259.7	-259.5	[0.00]	µg/L	18:39:16
3	V 292.402†	512.9	512.6	[0.00]	µg/L	18:39:16
3	Zn 213.857†	567.7	567.3	[0.00]	µg/L	18:39:36

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1718217.6	13004.50	0.76%	100.00 %	
Sc RADIAL	145929.8	968.46	0.66%	100 %	
Y 371.029	1026688.7	7921.26	0.77%	100.000 %	
Ag 328.068†	4091.4	166.92	4.08%	[0.00]	µg/L
Al 396.153Radial†	-63.2	17.46	27.63%	[0.00]	µg/L
As 188.979†	-20.4	2.68	13.16%	[0.00]	µg/L
B 249.677†	3505.9	38.80	1.11%	[0.00]	µg/L
Ba 233.527†	-135.9	11.99	8.83%	[0.00]	µg/L

Be 313.107†	-1064.7	101.30	9.51%	[0.00]	µg/L
Ca 317.933Radial†	560.6	2.89	0.52%	[0.00]	µg/L
Cd 226.502†	-118.2	10.43	8.83%	[0.00]	µg/L
Co 228.616†	-190.3	14.72	7.73%	[0.00]	µg/L
Cr 267.716†	178.6	44.62	24.99%	[0.00]	µg/L
Cu 324.752†	2972.2	89.48	3.01%	[0.00]	µg/L
Fe 238.204 Radial†	148.1	4.61	3.11%	[0.00]	µg/L
K 766.490 Radial†	1544.8	51.81	3.35%	[0.00]	µg/L
Mg 279.077 IEC†	190.7	28.69	15.04%	[0.00]	µg/L
Mn 257.610†	237.3	17.14	7.23%	[0.00]	µg/L
Mo 202.031†	-20.1	5.18	25.80%	[0.00]	µg/L
Na 589.592 Radial†	1290.8	73.89	5.72%	[0.00]	µg/L
Ni 231.604†	-76.5	3.18	4.16%	[0.00]	µg/L
P 214.914†	-18.0	11.42	63.61%	[0.00]	µg/L
Pb 220.353†	86.4	19.23	22.27%	[0.00]	µg/L
S 181.975 Axial†	105.1	5.63	5.36%	[0.00]	µg/L
Sb 206.836†	80.8	4.27	5.29%	[0.00]	µg/L
Se 196.026†	15.3	6.14	40.18%	[0.00]	µg/L
SiO2†	1775.4	44.90	2.53%	[0.00]	µg/L
Si 251.611†	836.6	76.33	9.12%	[0.00]	µg/L
Sn 189.927†	-1.1	5.51	492.60%	[0.00]	µg/L
Sr 421.552†	-135.3	99.98	73.90%	[0.00]	µg/L
Ti 334.940†	952.5	73.33	7.70%	[0.00]	µg/L
Tl 190.801†	-116.7	7.17	6.15%	[0.00]	µg/L
U 409.014†	-269.9	113.01	41.87%	[0.00]	µg/L
V 292.402†	403.8	94.24	23.34%	[0.00]	µg/L
Zn 213.857†	564.4	3.32	0.59%	[0.00]	µg/L

Sequence No.: 2

Sample ID: S0.1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 3/31/2010 18:39:45

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc RADIAL	144945.8	144945.8	99.3 %	18:40:16
1	K 766.490 Radial†	4177.9	2661.5	[1000] µg/L	18:40:16
1	Sr 421.552†	48790.2	49256.8	[100] µg/L	18:40:16
1	Sc 361.383	1738207.5	1738207.5	101.16 %	18:40:38
1	Y 371.029	1035658.2	1035658.2	100.87 %	18:40:38
1	Ag 328.068†	31505.9	27052.2	[100] µg/L	18:40:40
1	As 188.979†	319.4	336.1	[100] µg/L	18:41:00
1	B 249.677†	10182.7	6559.7	[100] µg/L	18:40:40
1	Ba 233.527†	25238.0	25083.6	[100] µg/L	18:40:40
1	Be 313.107†	372065.7	368851.5	[100] µg/L	18:40:38
1	Cd 226.502†	16206.1	16137.9	[100] µg/L	18:40:40
1	Co 228.616†	8180.0	8276.3	[100] µg/L	18:41:00
1	Cr 267.716†	13182.1	12852.0	[100] µg/L	18:40:40
1	Cu 324.752†	28766.5	25463.5	[100] µg/L	18:40:40
1	Mn 257.610†	84629.1	83418.6	[100] µg/L	18:40:40
1	Mo 202.031†	3388.6	3369.7	[100] µg/L	18:41:00
1	Ni 231.604†	8784.7	8760.2	[100] µg/L	18:40:40
1	P 214.914†	2330.2	2321.4	[500] µg/L	18:41:00
1	Pb 220.353†	1931.7	1823.1	[100] µg/L	18:41:00
1	S 181.975 Axial†	386.6	277.1	[200] µg/L	18:41:00
1	Sb 206.836†	932.6	841.0	[100] µg/L	18:41:00
1	Se 196.026†	288.8	270.2	[100] µg/L	18:41:00
1	SiO2†	12629.3	10708.7	[1069.5] µg/L	18:40:40
1	Si 251.611†	34601.6	33367.1	[500] µg/L	18:40:40
1	Sn 189.927†	1637.3	1619.6	[100] µg/L	18:41:00
1	Ti 334.940†	108213.7	106016.7	[100] µg/L	18:40:40
1	Tl 190.801†	724.1	832.5	[100] µg/L	18:41:00
1	U 409.014†	1714.9	1965.0	[100] µg/L	18:40:40
1	V 292.402†	20866.1	20222.4	[100] µg/L	18:40:40
1	Zn 213.857†	18689.8	17910.4	[100] µg/L	18:40:40
2	Sc RADIAL	144384.1	144384.1	98.9 %	18:40:18
2	K 766.490 Radial†	4099.7	2598.8	[1000] µg/L	18:40:18
2	Sr 421.552†	48913.4	49572.3	[100] µg/L	18:40:18
2	Sc 361.383	1718136.8	1718136.8	99.995 %	18:41:02
2	Y 371.029	1023615.0	1023615.0	99.701 %	18:41:02
2	Ag 328.068†	31474.0	27384.1	[100] µg/L	18:41:04
2	As 188.979†	316.2	336.6	[100] µg/L	18:41:24
2	B 249.677†	10249.3	6743.9	[100] µg/L	18:41:04
2	Ba 233.527†	25403.3	25540.3	[100] µg/L	18:41:04
2	Be 313.107†	368011.0	369093.1	[100] µg/L	18:41:02
2	Cd 226.502†	16403.0	16522.0	[100] µg/L	18:41:04
2	Co 228.616†	8194.1	8384.8	[100] µg/L	18:41:24
2	Cr 267.716†	13299.6	13121.6	[100] µg/L	18:41:04
2	Cu 324.752†	29042.8	26072.0	[100] µg/L	18:41:04
2	Mn 257.610†	85481.9	85248.7	[100] µg/L	18:41:04
2	Mo 202.031†	3415.9	3436.2	[100] µg/L	18:41:24
2	Ni 231.604†	9104.3	9181.2	[100] µg/L	18:41:04
2	P 214.914†	2327.9	2346.0	[500] µg/L	18:41:24
2	Pb 220.353†	1943.3	1857.0	[100] µg/L	18:41:24
2	S 181.975 Axial†	382.9	277.8	[200] µg/L	18:41:24
2	Sb 206.836†	933.1	852.4	[100] µg/L	18:41:24
2	Se 196.026†	282.7	267.4	[100] µg/L	18:41:24
2	SiO2†	12728.6	10953.9	[1069.5] µg/L	18:41:04
2	Si 251.611†	35105.7	34270.8	[500] µg/L	18:41:04
2	Sn 189.927†	1643.4	1644.6	[100] µg/L	18:41:24
2	Ti 334.940†	109258.0	108310.6	[100] µg/L	18:41:04
2	Tl 190.801†	742.2	858.9	[100] µg/L	18:41:24
2	U 409.014†	1747.4	2017.4	[100] µg/L	18:41:04
2	V 292.402†	20863.1	20460.2	[100] µg/L	18:41:04

2	Zn 213.857†	18913.1	18349.6	[100]	µg/L	18:41:04
3	Sc RADIAL	144888.2	144888.2	99.3	%	18:40:20
3	K 766.490 Radial†	4194.1	2679.5	[1000]	µg/L	18:40:20
3	Sr 421.552†	48878.7	49365.4	[100]	µg/L	18:40:20
3	Sc 361.383	1720712.1	1720712.1	100.15	%	18:41:26
3	Y 371.029	1025149.2	1025149.2	99.850	%	18:41:26
3	Ag 328.068†	30653.6	26517.7	[100]	µg/L	18:41:28
3	As 188.979†	311.4	331.3	[100]	µg/L	18:41:48
3	B 249.677†	10032.3	6511.9	[100]	µg/L	18:41:28
3	Ba 233.527†	24571.6	24671.8	[100]	µg/L	18:41:28
3	Be 313.107†	369363.0	369892.2	[100]	µg/L	18:41:26
3	Cd 226.502†	15800.2	15895.5	[100]	µg/L	18:41:28
3	Co 228.616†	7941.4	8120.2	[100]	µg/L	18:41:48
3	Cr 267.716†	12878.6	12681.3	[100]	µg/L	18:41:28
3	Cu 324.752†	28237.0	25223.9	[100]	µg/L	18:41:28
3	Mn 257.610†	82709.3	82352.2	[100]	µg/L	18:41:28
3	Mo 202.031†	3317.5	3332.8	[100]	µg/L	18:41:48
3	Ni 231.604†	8579.1	8643.1	[100]	µg/L	18:41:28
3	P 214.914†	2246.6	2261.3	[500]	µg/L	18:41:48
3	Pb 220.353†	1888.8	1799.7	[100]	µg/L	18:41:48
3	S 181.975 Axial†	370.3	264.7	[200]	µg/L	18:41:48
3	Sb 206.836†	914.8	832.6	[100]	µg/L	18:41:48
3	Se 196.026†	294.0	278.3	[100]	µg/L	18:41:48
3	SiO2†	12365.6	10572.3	[1069.5]	µg/L	18:41:28
3	Si 251.611†	33612.6	32727.3	[500]	µg/L	18:41:28
3	Sn 189.927†	1589.9	1588.8	[100]	µg/L	18:41:48
3	Ti 334.940†	106005.7	104899.5	[100]	µg/L	18:41:28
3	Tl 190.801†	699.9	815.6	[100]	µg/L	18:41:48
3	U 409.014†	1493.0	1760.7	[100]	µg/L	18:41:28
3	V 292.402†	20303.9	19870.7	[100]	µg/L	18:41:28
3	Zn 213.857†	18249.8	17659.0	[100]	µg/L	18:41:28

## Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1725685.5	10920.55	0.63%	100.43 %
Sc RADIAL	144739.3	309.02	0.21%	99.2 %
Y 371.029	1028140.8	6555.30	0.64%	100.14 %
Ag 328.068†	26984.7	437.11	1.62%	[100] µg/L
As 188.979†	334.7	2.93	0.88%	[100] µg/L
B 249.677†	6605.2	122.52	1.85%	[100] µg/L
Ba 233.527†	25098.6	434.45	1.73%	[100] µg/L
Be 313.107†	369278.9	544.69	0.15%	[100] µg/L
Cd 226.502†	16185.1	315.91	1.95%	[100] µg/L
Co 228.616†	8260.4	133.02	1.61%	[100] µg/L
Cr 267.716†	12885.0	222.00	1.72%	[100] µg/L
Cu 324.752†	25586.4	437.23	1.71%	[100] µg/L
K 766.490 Radial†	2646.6	42.33	1.60%	[1000] µg/L
Mn 257.610†	83673.1	1464.94	1.75%	[100] µg/L
Mo 202.031†	3379.6	52.39	1.55%	[100] µg/L
Ni 231.604†	8861.5	282.97	3.19%	[100] µg/L
P 214.914†	2309.6	43.55	1.89%	[500] µg/L
Pb 220.353†	1826.6	28.83	1.58%	[100] µg/L
S 181.975 Axial†	273.2	7.39	2.70%	[200] µg/L
Sb 206.836†	842.0	9.91	1.18%	[100] µg/L
Se 196.026†	272.0	5.61	2.06%	[100] µg/L
SiO2†	10744.9	193.37	1.80%	[1069.5] µg/L
Si 251.611†	33455.1	775.50	2.32%	[500] µg/L
Sn 189.927†	1617.7	27.99	1.73%	[100] µg/L
Sr 421.552†	49398.1	160.32	0.32%	[100] µg/L
Ti 334.940†	106408.9	1739.07	1.63%	[100] µg/L
Tl 190.801†	835.7	21.85	2.61%	[100] µg/L
U 409.014†	1914.4	135.63	7.09%	[100] µg/L
V 292.402†	20184.4	296.62	1.47%	[100] µg/L
Zn 213.857†	17973.0	349.52	1.94%	[100] µg/L

Sequence No.: 3

Sample ID: S0.5

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 3/31/2010 18:41:56

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	139976.0	139976.0	95.9 %	18:42:27
1	Al 396.153Radial†	25919.4	27085.0	[5000] µg/L	18:42:27
1	Ca 317.933Radial†	87385.1	90541.3	[5000] µg/L	18:42:27
1	K 766.490 Radial†	14430.7	13499.7	[5000] µg/L	18:42:27
1	Mg 279.077 IEC†	13338.9	13715.6	[5000] µg/L	18:42:27
1	Sr 421.552†	229015.2	238891.4	[500] µg/L	18:42:25
1	Sc 361.383	1645400.7	1645400.7	95.762 %	18:42:40
1	Y 371.029	975342.9	975342.9	94.999 %	18:42:40
1	Ag 328.068†	131294.3	133013.3	[500] µg/L	18:42:40
1	As 188.979†	1571.6	1661.5	[500] µg/L	18:43:00
1	B 249.677†	35172.1	33222.7	[500] µg/L	18:42:40
1	Ba 233.527†	117348.5	122677.6	[500] µg/L	18:42:40
1	Be 313.107†	1744827.1	1823108.9	[500] µg/L	18:42:40
1	Cd 226.502†	75312.3	78763.4	[500] µg/L	18:42:40
1	Co 228.616†	38245.0	40127.8	[500] µg/L	18:42:40
1	Cr 267.716†	60545.4	63046.3	[500] µg/L	18:42:40
1	Cu 324.752†	123884.9	126395.2	[500] µg/L	18:42:40
1	Mn 257.610†	385575.1	402401.4	[500] µg/L	18:42:40
1	Mo 202.031†	16410.2	17156.5	[500] µg/L	18:43:00
1	Ni 231.604†	41126.2	43022.7	[500] µg/L	18:42:40
1	P 214.914†	11303.9	11822.1	[2500] µg/L	18:43:00
1	Pb 220.353†	8787.6	9090.2	[500] µg/L	18:43:00
1	S 181.975 Axial†	1381.6	1337.7	[1000] µg/L	18:43:00
1	Sb 206.836†	4130.5	4232.5	[500] µg/L	18:43:00
1	Se 196.026†	1340.7	1384.8	[500] µg/L	18:43:00
1	SiO2†	54250.1	54875.6	[5347.5] µg/L	18:42:40
1	Si 251.611†	163679.1	170086.1	[2500] µg/L	18:42:40
1	Sn 189.927†	7746.5	8090.4	[500] µg/L	18:43:00
1	Ti 334.940†	510093.6	531715.2	[500] µg/L	18:42:40
1	Tl 190.801†	3808.0	4093.2	[500] µg/L	18:43:00
1	U 409.014†	6985.6	7564.6	[500] µg/L	18:42:40
1	V 292.402†	96986.0	100874.3	[500] µg/L	18:42:40
1	Zn 213.857†	84527.8	87704.2	[500] µg/L	18:42:40
2	Sc RADIAL	141210.3	141210.3	96.8 %	18:42:31
2	Al 396.153Radial†	26176.8	27114.9	[5000] µg/L	18:42:31
2	Ca 317.933Radial†	88277.8	90667.6	[5000] µg/L	18:42:31
2	K 766.490 Radial†	14658.6	13603.8	[5000] µg/L	18:42:31
2	Mg 279.077 IEC†	13508.7	13769.5	[5000] µg/L	18:42:31
2	Sr 421.552†	232944.0	240864.6	[500] µg/L	18:42:29
2	Sc 361.383	1687203.1	1687203.1	98.195 %	18:43:03
2	Y 371.029	998510.1	998510.1	97.255 %	18:43:03
2	Ag 328.068†	134607.0	132990.0	[500] µg/L	18:43:03
2	As 188.979†	1586.5	1636.0	[500] µg/L	18:43:23
2	B 249.677†	36433.6	33597.5	[500] µg/L	18:43:03
2	Ba 233.527†	121232.8	123597.1	[500] µg/L	18:43:03
2	Be 313.107†	1799842.1	1833991.9	[500] µg/L	18:43:03
2	Cd 226.502†	78158.8	79713.7	[500] µg/L	18:43:03
2	Co 228.616†	39721.5	40642.0	[500] µg/L	18:43:03
2	Cr 267.716†	62227.1	63192.4	[500] µg/L	18:43:03
2	Cu 324.752†	127576.9	126949.9	[500] µg/L	18:43:03
2	Mn 257.610†	397913.1	404990.4	[500] µg/L	18:43:03
2	Mo 202.031†	16475.5	16798.5	[500] µg/L	18:43:23
2	Ni 231.604†	42320.9	43175.4	[500] µg/L	18:43:03
2	P 214.914†	11321.5	11547.6	[2500] µg/L	18:43:23
2	Pb 220.353†	8841.9	8918.0	[500] µg/L	18:43:23
2	S 181.975 Axial†	1404.5	1325.2	[1000] µg/L	18:43:23
2	Sb 206.836†	4150.6	4146.1	[500] µg/L	18:43:23
2	Se 196.026†	1352.6	1362.2	[500] µg/L	18:43:23
2	SiO2†	55913.1	55165.5	[5347.5] µg/L	18:43:03

2	Si 251.611†	169027.8	171298.3	[2500] µg/L	18:43:03
2	Sn 189.927†	7793.7	7938.1	[500] µg/L	18:43:23
2	Ti 334.940†	524282.8	532967.8	[500] µg/L	18:43:03
2	Tl 190.801†	3829.1	4016.1	[500] µg/L	18:43:23
2	U 409.014†	7204.4	7606.8	[500] µg/L	18:43:03
2	V 292.402†	99476.3	100901.1	[500] µg/L	18:43:03
2	Zn 213.857†	87574.3	88619.7	[500] µg/L	18:43:03
3	Sc RADIAL	139845.9	139845.9	95.8 %	18:42:35
3	Al 396.153Radial†	25970.7	27163.8	[5000] µg/L	18:42:35
3	Ca 317.933Radial†	87048.7	90275.0	[5000] µg/L	18:42:35
3	K 766.490 Radial†	14322.7	13401.0	[5000] µg/L	18:42:35
3	Mg 279.077 IEC†	13177.9	13560.5	[5000] µg/L	18:42:35
3	Sr 421.552†	232490.3	242739.9	[500] µg/L	18:42:33
3	Sc 361.383	1671427.9	1671427.9	97.277 %	18:43:26
3	Y 371.029	990579.4	990579.4	96.483 %	18:43:26
3	Ag 328.068†	132744.3	132368.9	[500] µg/L	18:43:26
3	As 188.979†	1563.8	1627.9	[500] µg/L	18:43:46
3	B 249.677†	35824.9	33321.9	[500] µg/L	18:43:26
3	Ba 233.527†	119283.9	122759.0	[500] µg/L	18:43:26
3	Be 313.107†	1775117.0	1825874.0	[500] µg/L	18:43:26
3	Cd 226.502†	77044.3	79319.2	[500] µg/L	18:43:26
3	Co 228.616†	39106.1	40391.2	[500] µg/L	18:43:26
3	Cr 267.716†	61510.3	63053.6	[500] µg/L	18:43:26
3	Cu 324.752†	125724.5	126271.8	[500] µg/L	18:43:26
3	Mn 257.610†	391730.1	402458.9	[500] µg/L	18:43:26
3	Mo 202.031†	16447.7	16928.2	[500] µg/L	18:43:46
3	Ni 231.604†	41833.4	43081.0	[500] µg/L	18:43:26
3	P 214.914†	11306.9	11641.3	[2500] µg/L	18:43:46
3	Pb 220.353†	8817.9	8978.4	[500] µg/L	18:43:46
3	S 181.975 Axial†	1403.6	1337.8	[1000] µg/L	18:43:46
3	Sb 206.836†	4107.1	4141.3	[500] µg/L	18:43:46
3	Se 196.026†	1356.4	1379.1	[500] µg/L	18:43:46
3	SiO2†	55098.9	54865.9	[5347.5] µg/L	18:43:26
3	Si 251.611†	166541.0	170366.5	[2500] µg/L	18:43:26
3	Sn 189.927†	7776.3	7995.1	[500] µg/L	18:43:46
3	Ti 334.940†	517688.6	531228.1	[500] µg/L	18:43:26
3	Tl 190.801†	3841.1	4065.3	[500] µg/L	18:43:46
3	U 409.014†	7259.9	7733.0	[500] µg/L	18:43:26
3	V 292.402†	98243.7	100590.2	[500] µg/L	18:43:26
3	Zn 213.857†	86383.4	88237.2	[500] µg/L	18:43:26

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Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1668010.6	21109.69	1.27%	97.078 %	
Sc RADIAL	140344.1	753.01	0.54%	96.2 %	
Y 371.029	988144.1	11774.03	1.19%	96.246 %	
Ag 328.068†	132790.8	365.49	0.28%	[500] µg/L	
Al 396.153Radial†	27121.2	39.74	0.15%	[5000] µg/L	
As 188.979†	1641.8	17.55	1.07%	[500] µg/L	
B 249.677†	33380.7	194.18	0.58%	[500] µg/L	
Ba 233.527†	123011.2	509.04	0.41%	[500] µg/L	
Be 313.107†	1827658.3	5656.67	0.31%	[500] µg/L	
Ca 317.933Radial†	90494.7	200.40	0.22%	[5000] µg/L	
Cd 226.502†	79265.5	477.42	0.60%	[500] µg/L	
Co 228.616†	40387.0	257.10	0.64%	[500] µg/L	
Cr 267.716†	63097.4	82.35	0.13%	[500] µg/L	
Cu 324.752†	126538.9	361.18	0.29%	[500] µg/L	
K 766.490 Radial†	13501.5	101.39	0.75%	[5000] µg/L	
Mg 279.077 IEC†	13681.9	108.49	0.79%	[5000] µg/L	
Mn 257.610†	403283.6	1478.44	0.37%	[500] µg/L	
Mo 202.031†	16961.0	181.25	1.07%	[500] µg/L	
Ni 231.604†	43093.0	77.04	0.18%	[500] µg/L	
P 214.914†	11670.4	139.54	1.20%	[2500] µg/L	
Pb 220.353†	8995.5	87.32	0.97%	[500] µg/L	
S 181.975 Axial†	1333.6	7.24	0.54%	[1000] µg/L	
Sb 206.836†	4173.3	51.32	1.23%	[500] µg/L	
Se 196.026†	1375.4	11.73	0.85%	[500] µg/L	
SiO2†	54969.0	170.25	0.31%	[5347.5] µg/L	
Si 251.611†	170583.6	634.61	0.37%	[2500] µg/L	

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Sn 189.927†	8007.9	76.96	0.96%	[500] µg/L
Sr 421.552†	240832.0	1924.44	0.80%	[500] µg/L
Ti 334.940†	531970.4	897.45	0.17%	[500] µg/L
Tl 190.801†	4058.2	39.03	0.96%	[500] µg/L
U 409.014†	7634.8	87.65	1.15%	[500] µg/L
V 292.402†	100788.5	172.29	0.17%	[500] µg/L
Zn 213.857†	88187.0	459.83	0.52%	[500] µg/L



Sequence No.: 4

Sample ID: SCAL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 3/31/2010 18:43:55

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	140246.3	140246.3	96.1 %		18:44:26
1	Al 396.153Radial†	52689.3	54887.7	[10000] µg/L		18:44:26
1	Ca 317.933Radial†	176157.7	182735.9	[10000] µg/L		18:44:26
1	Fe 238.204 Radial†	157034.9	163250.7	[10000] µg/L		18:44:26
1	K 766.490 Radial†	27864.8	27449.2	[10000] µg/L		18:44:26
1	Mg 279.077 IEC†	26628.7	27517.1	[10000] µg/L		18:44:26
1	Na 589.592 Radial†	71367.5	72968.9	[10000] µg/L		18:44:26
1	Sr 421.552†	465887.4	484902.9	[1000] µg/L		18:44:24
1	Sc 361.383	1660058.9	1660058.9	96.615 %		18:44:39
1	Y 371.029	978012.9	978012.9	95.259 %		18:44:39
1	Ag 328.068†	268618.1	273937.5	[1000] µg/L		18:44:41
1	As 188.979†	3193.8	3326.1	[1000] µg/L		18:45:01
1	B 249.677†	69762.5	68700.7	[1000] µg/L		18:44:41
1	Ba 233.527†	242316.3	250941.5	[1000] µg/L		18:44:41
1	Be 313.107†	3555578.2	3681209.5	[1000] µg/L		18:44:39
1	Cd 226.502†	156604.8	162209.5	[1000] µg/L		18:44:41
1	Co 228.616†	78951.1	81907.4	[1000] µg/L		18:44:41
1	Cr 267.716†	125005.7	129206.6	[1000] µg/L		18:44:41
1	Cu 324.752†	255303.1	261275.2	[1000] µg/L		18:44:41
1	Mn 257.610†	781879.7	809034.9	[1000] µg/L		18:44:39
1	Mo 202.031†	33228.9	34413.1	[1000] µg/L		18:44:41
1	Ni 231.604†	84765.4	87811.6	[1000] µg/L		18:44:41
1	P 214.914†	22636.2	23447.2	[5000] µg/L		18:45:01
1	Pb 220.353†	17407.6	17931.0	[1000] µg/L		18:45:01
1	S 181.975 Axial†	2706.2	2696.0	[2000] µg/L		18:45:01
1	Sb 206.836†	8264.7	8473.4	[1000] µg/L		18:45:01
1	Se 196.026†	2709.4	2789.0	[1000] µg/L		18:45:01
1	SiO2†	108329.2	110349.0	[10695] µg/L		18:44:41
1	Si 251.611†	331285.5	342055.2	[5000] µg/L		18:44:41
1	Sn 189.927†	15541.6	16087.2	[1000] µg/L		18:45:01
1	Ti 334.940†	1037686.9	1073088.8	[1000] µg/L		18:44:39
1	Tl 190.801†	7778.7	8167.9	[1000] µg/L		18:45:01
1	U 409.014†	16858.3	17718.8	[1000] µg/L		18:44:41
1	V 292.402†	201478.5	208133.3	[1000] µg/L		18:44:41
1	Zn 213.857†	174510.7	180060.2	[1000] µg/L		18:44:41
2	Sc RADIAL	138844.4	138844.4	95.1 %		18:44:30
2	Al 396.153Radial†	52161.3	54886.4	[10000] µg/L		18:44:30
2	Ca 317.933Radial†	173493.6	181786.6	[10000] µg/L		18:44:30
2	Fe 238.204 Radial†	154887.4	162643.3	[10000] µg/L		18:44:30
2	K 766.490 Radial†	27455.0	27311.3	[10000] µg/L		18:44:30
2	Mg 279.077 IEC†	26420.5	27578.1	[10000] µg/L		18:44:30
2	Na 589.592 Radial†	70508.9	72816.3	[10000] µg/L		18:44:30
2	Sr 421.552†	460810.9	484461.8	[1000] µg/L		18:44:28
2	Sc 361.383	1689699.6	1689699.6	98.340 %		18:45:04
2	Y 371.029	993860.1	993860.1	96.802 %		18:45:04
2	Ag 328.068†	266910.5	267323.9	[1000] µg/L		18:45:06
2	As 188.979†	3218.4	3293.1	[1000] µg/L		18:45:26
2	B 249.677†	69508.7	67175.9	[1000] µg/L		18:45:06
2	Ba 233.527†	241134.5	245340.1	[1000] µg/L		18:45:06
2	Be 313.107†	3627090.7	3689371.8	[1000] µg/L		18:45:04
2	Cd 226.502†	155509.2	158252.0	[1000] µg/L		18:45:06
2	Co 228.616†	78490.7	80005.8	[1000] µg/L		18:45:06
2	Cr 267.716†	124369.4	126289.8	[1000] µg/L		18:45:06
2	Cu 324.752†	253180.3	254481.2	[1000] µg/L		18:45:06
2	Mn 257.610†	797903.6	811133.0	[1000] µg/L		18:45:04
2	Mo 202.031†	33052.4	33630.3	[1000] µg/L		18:45:06
2	Ni 231.604†	84350.1	85850.2	[1000] µg/L		18:45:06
2	P 214.914†	22849.9	23253.5	[5000] µg/L		18:45:26
2	Pb 220.353†	17581.2	17791.6	[1000] µg/L		18:45:26

2	S 181.975 Axial†	2749.5	2690.8	[2000]	µg/L	18:45:26
2	Sb 206.836†	8294.0	8353.2	[1000]	µg/L	18:45:26
2	Se 196.026†	2710.1	2740.6	[1000]	µg/L	18:45:26
2	SiO2†	107785.0	107828.8	[10695]	µg/L	18:45:06
2	Si 251.611†	329317.5	334039.0	[5000]	µg/L	18:45:06
2	Sn 189.927†	15680.3	15946.1	[1000]	µg/L	18:45:26
2	Ti 334.940†	1057357.1	1074250.2	[1000]	µg/L	18:45:04
2	Tl 190.801†	7829.0	8077.8	[1000]	µg/L	18:45:26
2	U 409.014†	16641.8	17192.5	[1000]	µg/L	18:45:06
2	V 292.402†	200063.6	203036.4	[1000]	µg/L	18:45:06
2	Zn 213.857†	173774.1	176142.5	[1000]	µg/L	18:45:06
3	Sc RADIAL	142431.7	142431.7	97.6	%	18:44:34
3	Al 396.153Radial†	53146.2	54514.7	[10000]	µg/L	18:44:34
3	Ca 317.933Radial†	178392.5	182213.1	[10000]	µg/L	18:44:34
3	Fe 238.204 Radial†	159216.9	162979.1	[10000]	µg/L	18:44:34
3	K 766.490 Radial†	28289.6	27439.6	[10000]	µg/L	18:44:34
3	Mg 279.077 IEC†	27285.4	27764.8	[10000]	µg/L	18:44:34
3	Na 589.592 Radial†	72542.7	73033.5	[10000]	µg/L	18:44:34
3	Sr 421.552†	461335.7	472801.1	[1000]	µg/L	18:44:32
3	Sc 361.383	1671450.9	1671450.9	97.278	%	18:45:29
3	Y 371.029	984698.6	984698.6	95.910	%	18:45:29
3	Ag 328.068†	268839.9	272270.6	[1000]	µg/L	18:45:31
3	As 188.979†	3207.1	3317.1	[1000]	µg/L	18:45:51
3	B 249.677†	69920.1	68370.5	[1000]	µg/L	18:45:31
3	Ba 233.527†	242785.5	249714.4	[1000]	µg/L	18:45:31
3	Be 313.107†	3559181.4	3659831.0	[1000]	µg/L	18:45:29
3	Cd 226.502†	156473.3	160969.5	[1000]	µg/L	18:45:31
3	Co 228.616†	79020.9	81422.2	[1000]	µg/L	18:45:31
3	Cr 267.716†	125294.1	128621.2	[1000]	µg/L	18:45:31
3	Cu 324.752†	255275.0	259445.3	[1000]	µg/L	18:45:31
3	Mn 257.610†	783171.7	804847.3	[1000]	µg/L	18:45:29
3	Mo 202.031†	33174.1	34122.4	[1000]	µg/L	18:45:31
3	Ni 231.604†	84877.1	87328.4	[1000]	µg/L	18:45:31
3	P 214.914†	22811.2	23467.5	[5000]	µg/L	18:45:51
3	Pb 220.353†	17557.7	17962.6	[1000]	µg/L	18:45:51
3	S 181.975 Axial†	2739.9	2711.5	[2000]	µg/L	18:45:51
3	Sb 206.836†	8307.3	8458.9	[1000]	µg/L	18:45:51
3	Se 196.026†	2720.6	2781.4	[1000]	µg/L	18:45:51
3	SiO2†	108495.7	109756.0	[10695]	µg/L	18:45:31
3	Si 251.611†	331529.5	339969.0	[5000]	µg/L	18:45:31
3	Sn 189.927†	15666.1	16105.6	[1000]	µg/L	18:45:51
3	Ti 334.940†	1040566.4	1068728.6	[1000]	µg/L	18:45:29
3	Tl 190.801†	7842.2	8178.3	[1000]	µg/L	18:45:51
3	U 409.014†	16964.7	17709.3	[1000]	µg/L	18:45:31
3	V 292.402†	201223.5	206449.9	[1000]	µg/L	18:45:31
3	Zn 213.857†	174624.2	178945.7	[1000]	µg/L	18:45:31

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Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1673736.5	14951.98	0.89%	97.411 %
Sc RADIAL	140507.5	1807.88	1.29%	96.3 %
Y 371.029	985523.8	7955.77	0.81%	95.991 %
Ag 328.068†	271177.3	3439.65	1.27%	[1000] µg/L
Al 396.153Radial†	54762.9	214.99	0.39%	[10000] µg/L
As 188.979†	3312.1	17.04	0.51%	[1000] µg/L
B 249.677†	68082.4	802.18	1.18%	[1000] µg/L
Ba 233.527†	248665.4	2944.35	1.18%	[1000] µg/L
Be 313.107†	3676804.1	15255.21	0.41%	[1000] µg/L
Ca 317.933Radial†	182245.2	475.46	0.26%	[10000] µg/L
Cd 226.502†	160477.0	2024.24	1.26%	[1000] µg/L
Co 228.616†	81111.8	988.08	1.22%	[1000] µg/L
Cr 267.716†	128039.2	1543.01	1.21%	[1000] µg/L
Cu 324.752†	258400.5	3515.45	1.36%	[1000] µg/L
Fe 238.204 Radial†	162957.7	304.26	0.19%	[10000] µg/L
K 766.490 Radial†	27400.1	77.00	0.28%	[10000] µg/L
Mg 279.077 IEC†	27620.0	129.06	0.47%	[10000] µg/L
Mn 257.610†	808338.4	3200.20	0.40%	[1000] µg/L
Mo 202.031†	34055.3	395.69	1.16%	[1000] µg/L
Na 589.592 Radial†	72939.6	111.55	0.15%	[10000] µg/L

Ni 231.604†	86996.7	1021.87	1.17%	[1000]	µg/L
P 214.914†	23389.4	118.12	0.51%	[5000]	µg/L
Pb 220.353†	17895.1	91.02	0.51%	[1000]	µg/L
S 181.975 Axial†	2699.4	10.77	0.40%	[2000]	µg/L
Sb 206.836†	8428.5	65.64	0.78%	[1000]	µg/L
Se 196.026†	2770.3	26.05	0.94%	[1000]	µg/L
SiO2†	109311.3	1317.66	1.21%	[10695]	µg/L
Si 251.611†	338687.7	4158.85	1.23%	[5000]	µg/L
Sn 189.927†	16046.3	87.25	0.54%	[1000]	µg/L
Sr 421.552†	480721.9	6863.20	1.43%	[1000]	µg/L
Ti 334.940†	1072022.5	2911.16	0.27%	[1000]	µg/L
Tl 190.801†	8141.3	55.30	0.68%	[1000]	µg/L
U 409.014†	17540.2	301.14	1.72%	[1000]	µg/L
V 292.402†	205873.2	2596.95	1.26%	[1000]	µg/L
Zn 213.857†	178382.8	2018.56	1.13%	[1000]	µg/L

Sequence No.: 5

Sample ID: S10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 3/31/2010 18:45:59

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	139343.3	139343.3	95.5 %	18:46:28
1	Al 396.153Radial†	256543.2	268732.8	[50000] µg/L	18:46:28
1	Ca 317.933Radial†	856588.9	896517.6	[50000] µg/L	18:46:28
1	Fe 238.204 Radial†	309603.0	324089.2	[20000] µg/L	18:46:28
1	Mg 279.077 IEC†	128261.6	134133.6	[50000] µg/L	18:46:28
1	Na 589.592 Radial†	141053.4	146429.9	[20000] µg/L	18:46:28
1	Sc 361.383	1636602.8	1636602.8	95.250 %	18:46:50
1	Y 371.029	965973.5	965973.5	94.086 %	18:46:50
2	Sc RADIAL	137624.0	137624.0	94.3 %	18:46:30
2	Al 396.153Radial†	254363.4	269777.6	[50000] µg/L	18:46:30
2	Ca 317.933Radial†	846244.8	896755.8	[50000] µg/L	18:46:30
2	Fe 238.204 Radial†	305781.9	324087.9	[20000] µg/L	18:46:30
2	Mg 279.077 IEC†	126264.9	133694.4	[50000] µg/L	18:46:30
2	Na 589.592 Radial†	139489.2	146616.7	[20000] µg/L	18:46:30
2	Sc 361.383	1622381.6	1622381.6	94.422 %	18:46:53
2	Y 371.029	956849.7	956849.7	93.198 %	18:46:53
3	Sc RADIAL	137980.0	137980.0	94.6 %	18:46:32
3	Al 396.153Radial†	255245.7	270015.0	[50000] µg/L	18:46:32
3	Ca 317.933Radial†	849307.2	897679.9	[50000] µg/L	18:46:32
3	Fe 238.204 Radial†	306725.7	324249.8	[20000] µg/L	18:46:32
3	Mg 279.077 IEC†	127087.0	134218.4	[50000] µg/L	18:46:32
3	Na 589.592 Radial†	139780.8	146543.6	[20000] µg/L	18:46:32
3	Sc 361.383	1649813.3	1649813.3	96.019 %	18:46:56
3	Y 371.029	972430.3	972430.3	94.715 %	18:46:56

## Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1636265.9	13718.97	0.84%	95.230 %
Sc RADIAL	138315.8	907.47	0.66%	94.8 %
Y 371.029	965084.5	7828.26	0.81%	94.000 %
Al 396.153Radial†	269508.5	682.17	0.25%	[50000] µg/L
Ca 317.933Radial†	896984.4	613.95	0.07%	[50000] µg/L
Fe 238.204 Radial†	324142.3	93.07	0.03%	[20000] µg/L
Mg 279.077 IEC†	134015.5	281.29	0.21%	[50000] µg/L
Na 589.592 Radial†	146530.1	94.09	0.06%	[20000] µg/L

## Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	270.1	0.00000	0.999966	
Al 396.153Radial	3	Lin Thru 0	0.0	5.394	0.00000	0.999995	
As 188.979	3	Lin Thru 0	0.0	3.307	0.00000	0.999994	
B 249.677	3	Lin Thru 0	0.0	67.80	0.00000	0.999967	
Ba 233.527	3	Lin Thru 0	0.0	248.2	0.00000	0.999990	
Be 313.107	3	Lin Thru 0	0.0	3673	0.00000	0.999997	
Ca 317.933Radial	3	Lin Thru 0	0.0	17.95	0.00000	0.999995	
Cd 226.502	3	Lin Thru 0	0.0	160.1	0.00000	0.999988	
Co 228.616	3	Lin Thru 0	0.0	81.06	0.00000	0.999997	
Cr 267.716	3	Lin Thru 0	0.0	127.7	0.00000	0.999983	
Cu 324.752	3	Lin Thru 0	0.0	257.3	0.00000	0.999966	
Fe 238.204 Radia	2	Lin Thru 0	0.0	16.22	0.00000	0.999998	
K 766.490 Radial	3	Lin Thru 0	0.0	2.731	0.00000	0.999979	
Mg 279.077 IEC	3	Lin Thru 0	0.0	2.684	0.00000	0.999981	
Mn 257.610	3	Lin Thru 0	0.0	808.2	0.00000	0.999995	
Mo 202.031	3	Lin Thru 0	0.0	34.03	0.00000	0.999999	
Na 589.592 Radia	2	Lin Thru 0	0.0	7.320	0.00000	0.999998	

Ni 231.604	3	Lin Thru 0	0.0	86.85	0.00000	0.999991
P 214.914	3	Lin Thru 0	0.0	4.675	0.00000	0.999999
Pb 220.353	3	Lin Thru 0	0.0	17.92	0.00000	0.999996
S 181.975 Axial	3	Lin Thru 0	0.0	1.347	0.00000	0.999988
Sb 206.836	3	Lin Thru 0	0.0	8.412	0.00000	0.999992
Se 196.026	3	Lin Thru 0	0.0	2.766	0.00000	0.999995
SiO2	3	Lin Thru 0	0.0	10.23	0.00000	0.999996
Si 251.611	3	Lin Thru 0	0.0	67.83	0.00000	0.999995
Sn 189.927	3	Lin Thru 0	0.0	16.04	0.00000	0.999999
Sr 421.552	3	Lin Thru 0	0.0	481.0	0.00000	0.999997
Ti 334.940	3	Lin Thru 0	0.0	1070	0.00000	0.999995
Tl 190.801	3	Lin Thru 0	0.0	8.138	0.00000	0.999996
U 409.014	3	Lin Thru 0	0.0	17.10	0.00000	0.998547
V 292.402	3	Lin Thru 0	0.0	205.0	0.00000	0.999964
Zn 213.857	3	Lin Thru 0	0.0	178.0	0.00000	0.999990

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 3/31/2010 18:47:03

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	142728.0	142728.0	97.8 %		18:47:35
1	Al 396.153Radial†	27196.1	27869.4	5141.6 µg/L	5141.6 ppb	18:47:35
1	Ca 317.933Radial†	89393.1	90837.9	5060.0 µg/L	5060.0 ppb	18:47:35
1	Fe 238.204 Radial†	80412.9	82068.7	5058.2 µg/L	5058.2 ppb	18:47:35
1	K 766.490 Radial†	8352.4	6995.0	2558.1 µg/L	2558.1 ppb	18:47:35
1	Mg 279.077 IEC†	14148.2	14274.9	5327.6 µg/L	5327.6 ppb	18:47:35
1	Na 589.592 Radial†	19150.9	18289.7	2496.3 µg/L	2496.3 ppb	18:47:35
1	Sr 421.552†	250356.1	256107.6	532.39 µg/L	532.39 ppb	18:47:33
1	Sc 361.383	1677195.1	1677195.1	97.612 %		18:47:48
1	Y 371.029	995806.6	995806.6	96.992 %		18:47:48
1	Ag 328.068†	70215.3	67841.3	257.54 µg/L	257.54 ppb	18:47:48
1	As 188.979†	1526.8	1584.5	486.58 µg/L	486.58 ppb	18:47:50
1	B 249.677†	37075.8	34476.8	506.67 µg/L	506.67 ppb	18:47:48
1	Ba 233.527†	122696.8	125833.7	507.50 µg/L	507.50 ppb	18:47:48
1	Be 313.107†	933729.3	957632.1	260.88 µg/L	260.88 ppb	18:47:48
1	Cd 226.502†	77657.9	79675.5	497.37 µg/L	497.37 ppb	18:47:48
1	Co 228.616†	40998.4	42191.5	520.85 µg/L	520.85 ppb	18:47:50
1	Cr 267.716†	62225.7	63569.1	497.75 µg/L	497.75 ppb	18:47:50
1	Cu 324.752†	130541.7	130762.4	509.73 µg/L	509.73 ppb	18:47:48
1	Mn 257.610†	407677.2	417411.4	516.24 µg/L	516.24 ppb	18:47:48
1	Mo 202.031†	18097.1	18559.8	545.92 µg/L	545.92 ppb	18:47:50
1	Ni 231.604†	43663.1	44807.6	515.93 µg/L	515.93 ppb	18:47:50
1	P 214.914†	11760.6	12066.2	2571.9 µg/L	2571.9 ppb	18:47:50
1	Pb 220.353†	9089.2	9225.1	516.68 µg/L	516.68 ppb	18:47:50
1	S 181.975 Axial†	3477.6	3457.6	2572.2 µg/L	2572.2 ppb	18:47:50
1	Sb 206.836†	4253.6	4276.8	510.30 µg/L	510.30 ppb	18:47:50
1	Se 196.026†	6905.2	7058.8	2550 µg/L	2550 ppb	18:47:50
1	SiO2†	106599.4	107431.3	10477 µg/L	10477 ppb	18:47:48
1	Si 251.611†	325209.4	332327.1	4888.6 µg/L	4888.6 ppb	18:47:48
1	Sn 189.927†	8509.6	8718.8	545.19 µg/L	545.19 ppb	18:47:50
1	Ti 334.940†	517306.5	529006.8	493.58 µg/L	493.58 ppb	18:47:48
1	Tl 190.801†	4208.4	4428.0	551.50 µg/L	551.50 ppb	18:47:50
1	U 409.014†	7246.7	7693.8	480.75 µg/L	480.75 ppb	18:47:48
1	V 292.402†	101371.8	103447.4	511.74 µg/L	511.74 ppb	18:47:48
1	Zn 213.857†	89039.6	90653.0	505.19 µg/L	505.19 ppb	18:47:48
2	Sc RADIAL	141472.3	141472.3	96.9 %		18:47:39
2	Al 396.153Radial†	26888.4	27798.8	5129.2 µg/L	5129.2 ppb	18:47:39
2	Ca 317.933Radial†	88063.7	90277.8	5028.8 µg/L	5028.8 ppb	18:47:39
2	Fe 238.204 Radial†	79583.4	81942.8	5050.5 µg/L	5050.5 ppb	18:47:39
2	K 766.490 Radial†	8113.5	6824.4	2495.6 µg/L	2495.6 ppb	18:47:39
2	Mg 279.077 IEC†	13969.8	14219.3	5306.5 µg/L	5306.5 ppb	18:47:39
2	Na 589.592 Radial†	19176.1	18489.5	2523.7 µg/L	2523.7 ppb	18:47:39
2	Sr 421.552†	244831.9	252681.3	525.27 µg/L	525.27 ppb	18:47:37
2	Sc 361.383	1698788.6	1698788.6	98.869 %		18:47:53
2	Y 371.029	1007373.3	1007373.3	98.119 %		18:47:53
2	Ag 328.068†	71291.0	68014.9	258.16 µg/L	258.16 ppb	18:47:53
2	As 188.979†	1532.9	1570.8	482.29 µg/L	482.29 ppb	18:47:55
2	B 249.677†	37726.0	34651.6	509.29 µg/L	509.29 ppb	18:47:53
2	Ba 233.527†	124221.9	125778.5	507.27 µg/L	507.27 ppb	18:47:53
2	Be 313.107†	946768.4	958661.3	261.16 µg/L	261.16 ppb	18:47:53
2	Cd 226.502†	78878.8	79899.1	498.76 µg/L	498.76 ppb	18:47:53
2	Co 228.616†	40427.2	41079.9	507.13 µg/L	507.13 ppb	18:47:55
2	Cr 267.716†	61613.4	62139.5	486.55 µg/L	486.55 ppb	18:47:55
2	Cu 324.752†	131991.8	130529.2	508.81 µg/L	508.81 ppb	18:47:53
2	Mn 257.610†	413215.3	417704.0	516.60 µg/L	516.60 ppb	18:47:53
2	Mo 202.031†	17824.6	18048.5	530.89 µg/L	530.89 ppb	18:47:55
2	Ni 231.604†	43042.2	43611.0	502.15 µg/L	502.15 ppb	18:47:55
2	P 214.914†	11581.1	11731.5	2500.3 µg/L	2500.3 ppb	18:47:55
2	Pb 220.353†	8959.4	8975.5	502.70 µg/L	502.70 ppb	18:47:55

2	S 181.975 Axial†	3387.2	3320.9	2470.5 µg/L	2470.5 ppb	18:47:55
2	Sb 206.836†	4183.4	4150.4	495.20 µg/L	495.20 ppb	18:47:55
2	Se 196.026†	6756.5	6818.5	2470 µg/L	2470 ppb	18:47:55
2	SiO2†	108026.4	107486.5	10483 µg/L	10483 ppb	18:47:53
2	Si 251.611†	330001.8	332939.4	4897.9 µg/L	4897.9 ppb	18:47:53
2	Sn 189.927†	8332.5	8429.0	527.12 µg/L	527.12 ppb	18:47:55
2	Ti 334.940†	523598.9	528634.8	493.24 µg/L	493.24 ppb	18:47:53
2	Tl 190.801†	4130.1	4294.0	535.11 µg/L	535.11 ppb	18:47:55
2	U 409.014†	7323.1	7676.7	479.70 µg/L	479.70 ppb	18:47:53
2	V 292.402†	102428.7	103196.4	510.32 µg/L	510.32 ppb	18:47:53
2	Zn 213.857†	90500.4	90971.0	507.07 µg/L	507.07 ppb	18:47:53
3	Sc RADIAL	141074.5	141074.5	96.7 %		18:47:43
3	Al 396.153Radial†	27024.0	28017.2	5169.9 µg/L	5169.9 ppb	18:47:43
3	Ca 317.933Radial†	88402.3	90884.2	5062.6 µg/L	5062.6 ppb	18:47:43
3	Fe 238.204 Radial†	79763.1	82360.1	5076.2 µg/L	5076.2 ppb	18:47:43
3	K 766.490 Radial†	8103.8	6838.0	2500.5 µg/L	2500.5 ppb	18:47:43
3	Mg 279.077 IEC†	14069.6	14363.2	5360.0 µg/L	5360.0 ppb	18:47:43
3	Na 589.592 Radial†	19066.5	18431.9	2515.8 µg/L	2515.8 ppb	18:47:43
3	Sr 421.552†	247012.7	255649.2	531.44 µg/L	531.44 ppb	18:47:41
3	Sc 361.383	1692022.5	1692022.5	98.475 %		18:47:58
3	Y 371.029	1004104.0	1004104.0	97.800 %		18:47:58
3	Ag 328.068†	71156.1	68166.3	258.74 µg/L	258.74 ppb	18:47:58
3	As 188.979†	1530.4	1574.5	483.34 µg/L	483.34 ppb	18:48:00
3	B 249.677†	37553.2	34628.7	508.97 µg/L	508.97 ppb	18:47:58
3	Ba 233.527†	123711.5	125762.6	507.21 µg/L	507.21 ppb	18:47:58
3	Be 313.107†	941930.7	957578.0	260.87 µg/L	260.87 ppb	18:47:58
3	Cd 226.502†	78415.4	79747.6	497.81 µg/L	497.81 ppb	18:47:58
3	Co 228.616†	39781.6	40587.8	501.06 µg/L	501.06 ppb	18:48:00
3	Cr 267.716†	60612.6	61372.4	480.54 µg/L	480.54 ppb	18:48:00
3	Cu 324.752†	131599.2	130664.3	509.34 µg/L	509.34 ppb	18:47:58
3	Mn 257.610†	411605.2	417740.2	516.64 µg/L	516.64 ppb	18:47:58
3	Mo 202.031†	17622.4	17915.3	526.98 µg/L	526.98 ppb	18:48:00
3	Ni 231.604†	42378.9	43111.5	496.40 µg/L	496.40 ppb	18:48:00
3	P 214.914†	11404.8	11599.3	2472.0 µg/L	2472.0 ppb	18:48:00
3	Pb 220.353†	8867.2	8918.1	499.49 µg/L	499.49 ppb	18:48:00
3	S 181.975 Axial†	3288.2	3234.1	2406.0 µg/L	2406.0 ppb	18:48:00
3	Sb 206.836†	4104.8	4087.6	487.75 µg/L	487.75 ppb	18:48:00
3	Se 196.026†	6722.3	6811.1	2460 µg/L	2460 ppb	18:48:00
3	SiO2†	107577.1	107467.2	10482 µg/L	10482 ppb	18:47:58
3	Si 251.611†	328691.1	332943.1	4898.1 µg/L	4898.1 ppb	18:47:58
3	Sn 189.927†	8196.6	8324.7	520.62 µg/L	520.62 ppb	18:48:00
3	Ti 334.940†	522557.7	529695.2	494.23 µg/L	494.23 ppb	18:47:58
3	Tl 190.801†	3987.3	4165.7	519.39 µg/L	519.39 ppb	18:48:00
3	U 409.014†	7372.3	7756.3	484.40 µg/L	484.40 ppb	18:47:58
3	V 292.402†	102179.3	103357.4	511.03 µg/L	511.03 ppb	18:47:58
3	Zn 213.857†	89790.3	90616.0	505.12 µg/L	505.12 ppb	18:47:58

## Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1689335.4	98.319 %	0.6428			0.65%
Sc RADIAL	141758.3	97.1 %	0.59			0.61%
Y 371.029	1002428.0	97.637 %	0.5808			0.59%
Ag 328.068†	68007.5	258.15 µg/L	0.601	258.15 ppb	0.601	0.23%
QC value within limits for Ag 328.068 Recovery = 103.26%						
Al 396.153Radial†	27895.2	5146.9 µg/L	20.85	5146.9 ppb	20.85	0.41%
QC value within limits for Al 396.153Radial Recovery = 102.94%						
As 188.979†	1576.6	484.07 µg/L	2.239	484.07 ppb	2.239	0.46%
QC value within limits for As 188.979 Recovery = 96.81%						
B 249.677†	34585.7	508.31 µg/L	1.434	508.31 ppb	1.434	0.28%
QC value within limits for B 249.677 Recovery = 101.66%						
Ba 233.527†	125791.6	507.32 µg/L	0.154	507.32 ppb	0.154	0.03%
QC value within limits for Ba 233.527 Recovery = 101.46%						
Be 313.107†	957957.1	260.97 µg/L	0.166	260.97 ppb	0.166	0.06%
QC value within limits for Be 313.107 Recovery = 104.39%						
Ca 317.933Radial†	90666.6	5050.5 µg/L	18.80	5050.5 ppb	18.80	0.37%
QC value within limits for Ca 317.933Radial Recovery = 101.01%						
Cd 226.502†	79774.1	497.98 µg/L	0.711	497.98 ppb	0.711	0.14%
QC value within limits for Cd 226.502 Recovery = 99.60%						
Co 228.616†	41286.4	509.68 µg/L	10.138	509.68 ppb	10.138	1.99%

QC value within limits for Co 228.616 Recovery = 101.94%							
Cr 267.716†	62360.3	488.28 µg/L	8.733	488.28 ppb	8.733	1.79%	
QC value within limits for Cr 267.716 Recovery = 97.66%							
Cu 324.752†	130652.0	509.29 µg/L	0.460	509.29 ppb	0.460	0.09%	
QC value within limits for Cu 324.752 Recovery = 101.86%							
Fe 238.204 Radial†	82123.9	5061.6 µg/L	13.19	5061.6 ppb	13.19	0.26%	
QC value within limits for Fe 238.204 Radial Recovery = 101.23%							
K 766.490 Radial†	6885.8	2518.1 µg/L	34.72	2518.1 ppb	34.72	1.38%	
QC value within limits for K 766.490 Radial Recovery = 100.72%							
Mg 279.077 IEC†	14285.8	5331.4 µg/L	26.95	5331.4 ppb	26.95	0.51%	
QC value within limits for Mg 279.077 IEC Recovery = 106.63%							
Mn 257.610†	417618.5	516.49 µg/L	0.223	516.49 ppb	0.223	0.04%	
QC value within limits for Mn 257.610 Recovery = 103.30%							
Mo 202.031†	18174.5	534.59 µg/L	9.999	534.59 ppb	9.999	1.87%	
QC value within limits for Mo 202.031 Recovery = 106.92%							
Na 589.592 Radial†	18403.7	2511.9 µg/L	14.08	2511.9 ppb	14.08	0.56%	
QC value within limits for Na 589.592 Radial Recovery = 100.48%							
Ni 231.604†	43843.4	504.82 µg/L	10.036	504.82 ppb	10.036	1.99%	
QC value within limits for Ni 231.604 Recovery = 100.96%							
P 214.914†	11799.0	2514.8 µg/L	51.47	2514.8 ppb	51.47	2.05%	
QC value within limits for P 214.914 Recovery = 100.59%							
Pb 220.353†	9039.6	506.29 µg/L	9.140	506.29 ppb	9.140	1.81%	
QC value within limits for Pb 220.353 Recovery = 101.26%							
S 181.975 Axial†	3337.5	2482.9 µg/L	83.76	2482.9 ppb	83.76	3.37%	
QC value within limits for S 181.975 Axial Recovery = 99.32%							
Sb 206.836†	4171.6	497.75 µg/L	11.489	497.75 ppb	11.489	2.31%	
QC value within limits for Sb 206.836 Recovery = 99.55%							
Se 196.026†	6896.1	2500 µg/L	50.9	2500 ppb	50.9	2.04%	
QC value within limits for Se 196.026 Recovery = 99.81%							
SiO2†	107461.7	10481 µg/L	3.1	10481 ppb	3.1	0.03%	
QC value within limits for SiO2 Recovery = 98.00%							
Si 251.611†	332736.6	4894.9 µg/L	5.44	4894.9 ppb	5.44	0.11%	
QC value within limits for Si 251.611 Recovery = 97.90%							
Sn 189.927†	8490.8	530.98 µg/L	12.731	530.98 ppb	12.731	2.40%	
QC value within limits for Sn 189.927 Recovery = 106.20%							
Sr 421.552†	254812.7	529.70 µg/L	3.867	529.70 ppb	3.867	0.73%	
QC value within limits for Sr 421.552 Recovery = 105.94%							
Ti 334.940†	529112.2	493.68 µg/L	0.501	493.68 ppb	0.501	0.10%	
QC value within limits for Ti 334.940 Recovery = 98.74%							
Tl 190.801†	4295.9	535.33 µg/L	16.060	535.33 ppb	16.060	3.00%	
QC value within limits for Tl 190.801 Recovery = 107.07%							
U 409.014†	7709.0	481.62 µg/L	2.468	481.62 ppb	2.468	0.51%	
QC value within limits for U 409.014 Recovery = 96.32%							
V 292.402†	103333.7	511.03 µg/L	0.714	511.03 ppb	0.714	0.14%	
QC value within limits for V 292.402 Recovery = 102.21%							
Zn 213.857†	90746.7	505.79 µg/L	1.109	505.79 ppb	1.109	0.22%	
QC value within limits for Zn 213.857 Recovery = 101.16%							
All analyte(s) passed QC.							



Sequence No.: 7

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 3/31/2010 18:48:09

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	141820.7	141820.7	97.2 %		18:48:38
1	Al 396.153Radial†	-23.3	39.2	7.2759 µg/L	7.2759 ppb	18:48:58
1	Ca 317.933Radial†	601.1	58.0	3.2284 µg/L	3.2284 ppb	18:48:58
1	Fe 238.204 Radial†	172.3	29.2	1.7975 µg/L	1.7975 ppb	18:48:58
1	K 766.490 Radial†	1651.6	154.7	56.635 µg/L	56.635 ppb	18:48:38
1	Mg 279.077 IEC†	178.4	-7.1	-2.6584 µg/L	-2.6584 ppb	18:48:58
1	Na 589.592 Radial†	1421.8	172.2	23.470 µg/L	23.470 ppb	18:48:38
1	Sr 421.552†	-137.1	-5.8	-0.0120 µg/L	-0.0120 ppb	18:48:38
1	Sc 361.383	1683915.8	1683915.8	98.004 %		18:50:00
1	Y 371.029	1008438.2	1008438.2	98.222 %		18:50:00
1	Ag 328.068†	3988.4	-21.8	-0.0966 µg/L	-0.0966 ppb	18:50:02
1	As 188.979†	-16.6	3.4	1.0196 µg/L	1.0196 ppb	18:50:22
1	B 249.677†	3689.5	258.8	3.8157 µg/L	3.8157 ppb	18:50:02
1	Ba 233.527†	-144.6	-11.7	-0.0475 µg/L	-0.0475 ppb	18:50:22
1	Be 313.107†	-835.0	212.7	0.0556 µg/L	0.0556 ppb	18:50:02
1	Cd 226.502†	-86.3	30.1	0.1877 µg/L	0.1877 ppb	18:50:22
1	Co 228.616†	-156.6	30.5	0.3761 µg/L	0.3761 ppb	18:50:22
1	Cr 267.716†	188.6	13.8	0.1142 µg/L	0.1142 ppb	18:50:22
1	Cu 324.752†	2866.9	-46.9	-0.1882 µg/L	-0.1882 ppb	18:50:02
1	Mn 257.610†	237.6	5.2	0.0065 µg/L	0.0065 ppb	18:50:22
1	Mo 202.031†	-20.5	-0.8	-0.0238 µg/L	-0.0238 ppb	18:50:22
1	Ni 231.604†	-85.2	-10.4	-0.1202 µg/L	-0.1202 ppb	18:50:22
1	P 214.914†	-19.5	-2.0	-0.4133 µg/L	-0.4133 ppb	18:50:22
1	Pb 220.353†	104.1	19.8	1.1130 µg/L	1.1130 ppb	18:50:22
1	S 181.975 Axial†	94.9	-8.2	-6.0991 µg/L	-6.0991 ppb	18:50:22
1	Sb 206.836†	83.0	3.9	0.4581 µg/L	0.4581 ppb	18:50:22
1	Se 196.026†	16.9	2.0	0.709 µg/L	0.709 ppb	18:50:22
1	SiO2†	1750.1	10.4	1.0001 µg/L	1.0001 ppb	18:50:22
1	Si 251.611†	692.5	-130.0	-1.9216 µg/L	-1.9216 ppb	18:50:02
1	Sn 189.927†	12.8	14.2	0.8842 µg/L	0.8842 ppb	18:50:22
1	Ti 334.940†	967.2	34.4	0.0355 µg/L	0.0355 ppb	18:50:02
1	Tl 190.801†	-113.3	1.1	0.1286 µg/L	0.1286 ppb	18:50:22
1	U 409.014†	-392.4	-130.5	-7.6641 µg/L	-7.6641 ppb	18:50:02
1	V 292.402†	288.2	-109.7	-0.5404 µg/L	-0.5404 ppb	18:50:02
1	Zn 213.857†	580.6	28.0	0.1584 µg/L	0.1584 ppb	18:50:22
2	Sc RADIAL	141475.5	141475.5	96.9 %		18:49:00
2	Al 396.153Radial†	-59.5	1.9	0.3293 µg/L	0.3293 ppb	18:49:20
2	Ca 317.933Radial†	582.6	40.4	2.2485 µg/L	2.2485 ppb	18:49:20
2	Fe 238.204 Radial†	177.4	34.9	2.1506 µg/L	2.1506 ppb	18:49:20
2	K 766.490 Radial†	1678.4	186.4	68.259 µg/L	68.259 ppb	18:49:00
2	Mg 279.077 IEC†	195.6	11.1	4.1266 µg/L	4.1266 ppb	18:49:20
2	Na 589.592 Radial†	1313.4	64.0	8.6800 µg/L	8.6800 ppb	18:49:00
2	Sr 421.552†	-263.2	-136.2	-0.2832 µg/L	-0.2832 ppb	18:49:00
2	Sc 361.383	1681105.0	1681105.0	97.840 %		18:50:24
2	Y 371.029	1006809.9	1006809.9	98.064 %		18:50:24
2	Ag 328.068†	3899.5	-105.8	-0.4010 µg/L	-0.4010 ppb	18:50:26
2	As 188.979†	-14.2	5.9	1.7810 µg/L	1.7810 ppb	18:50:47
2	B 249.677†	3479.7	50.7	0.7461 µg/L	0.7461 ppb	18:50:26
2	Ba 233.527†	-126.1	7.0	0.0284 µg/L	0.0284 ppb	18:50:47
2	Be 313.107†	-932.6	111.6	0.0281 µg/L	0.0281 ppb	18:50:26
2	Cd 226.502†	-94.6	21.5	0.1342 µg/L	0.1342 ppb	18:50:47
2	Co 228.616†	-159.1	27.7	0.3416 µg/L	0.3416 ppb	18:50:47
2	Cr 267.716†	205.7	31.7	0.2541 µg/L	0.2541 ppb	18:50:47
2	Cu 324.752†	2760.4	-150.9	-0.5921 µg/L	-0.5921 ppb	18:50:26
2	Mn 257.610†	248.9	17.1	0.0210 µg/L	0.0210 ppb	18:50:47
2	Mo 202.031†	-6.8	13.1	0.3848 µg/L	0.3848 ppb	18:50:47
2	Ni 231.604†	-77.1	-2.3	-0.0264 µg/L	-0.0264 ppb	18:50:47
2	P 214.914†	-8.5	9.3	1.9937 µg/L	1.9937 ppb	18:50:47
2	Pb 220.353†	88.9	4.5	0.2582 µg/L	0.2582 ppb	18:50:47

2	S 181.975 Axial†	97.2	-5.7	-4.2111 µg/L	-4.2111 ppb	18:50:47
2	Sb 206.836†	84.7	5.7	0.6836 µg/L	0.6836 ppb	18:50:47
2	Se 196.026†	31.5	16.9	6.11 µg/L	6.11 ppb	18:50:47
2	SiO2†	1754.7	18.0	1.7515 µg/L	1.7515 ppb	18:50:47
2	Si 251.611†	708.6	-112.3	-1.6605 µg/L	-1.6605 ppb	18:50:26
2	Sn 189.927†	-0.8	0.3	0.0171 µg/L	0.0171 ppb	18:50:47
2	Ti 334.940†	917.4	-14.9	-0.0112 µg/L	-0.0112 ppb	18:50:26
2	Tl 190.801†	-109.7	4.5	0.5537 µg/L	0.5537 ppb	18:50:47
2	U 409.014†	-392.0	-130.8	-7.6468 µg/L	-7.6468 ppb	18:50:26
2	V 292.402†	396.5	1.4	0.0068 µg/L	0.0068 ppb	18:50:26
2	Zn 213.857†	557.8	5.7	0.0323 µg/L	0.0323 ppb	18:50:47
3	Sc RADIAL	140788.0	140788.0	96.5 %		18:49:22
3	Al 396.153Radial†	-53.3	8.0	1.4950 µg/L	1.4950 ppb	18:49:42
3	Ca 317.933Radial†	570.5	30.7	1.7106 µg/L	1.7106 ppb	18:49:42
3	Fe 238.204 Radial†	153.8	11.4	0.7002 µg/L	0.7002 ppb	18:49:42
3	K 766.490 Radial†	1509.3	19.7	7.1988 µg/L	7.1988 ppb	18:49:22
3	Mg 279.077 IEC†	187.5	3.6	1.3339 µg/L	1.3339 ppb	18:49:42
3	Na 589.592 Radial†	1241.2	-4.3	-0.5891 µg/L	-0.5891 ppb	18:49:22
3	Sr 421.552†	-62.3	70.7	0.1469 µg/L	0.1469 ppb	18:49:22
3	Sc 361.383	1702475.2	1702475.2	99.084 %		18:50:49
3	Y 371.029	1019278.2	1019278.2	99.278 %		18:50:49
3	Ag 328.068†	3893.2	-162.2	-0.6047 µg/L	-0.6047 ppb	18:50:51
3	As 188.979†	-11.0	9.3	2.8073 µg/L	2.8073 ppb	18:51:11
3	B 249.677†	3493.6	20.0	0.2957 µg/L	0.2957 ppb	18:50:51
3	Ba 233.527†	-155.1	-20.7	-0.0837 µg/L	-0.0837 ppb	18:51:11
3	Be 313.107†	-918.7	137.5	0.0367 µg/L	0.0367 ppb	18:50:51
3	Cd 226.502†	-90.2	27.2	0.1697 µg/L	0.1697 ppb	18:51:11
3	Co 228.616†	-191.5	-3.0	-0.0369 µg/L	-0.0369 ppb	18:51:11
3	Cr 267.716†	192.8	16.1	0.1277 µg/L	0.1277 ppb	18:51:11
3	Cu 324.752†	2902.8	-42.6	-0.1675 µg/L	-0.1675 ppb	18:50:51
3	Mn 257.610†	221.1	-14.1	-0.0175 µg/L	-0.0175 ppb	18:51:11
3	Mo 202.031†	-27.6	-7.7	-0.2274 µg/L	-0.2274 ppb	18:51:11
3	Ni 231.604†	-80.3	-4.5	-0.0519 µg/L	-0.0519 ppb	18:51:11
3	P 214.914†	-10.6	7.3	1.5639 µg/L	1.5639 ppb	18:51:11
3	Pb 220.353†	87.5	1.9	0.1068 µg/L	0.1068 ppb	18:51:11
3	S 181.975 Axial†	108.2	4.2	3.0845 µg/L	3.0845 ppb	18:51:11
3	Sb 206.836†	65.7	-14.5	-1.7326 µg/L	-1.7326 ppb	18:51:11
3	Se 196.026†	1.4	-13.8	-5.00 µg/L	-5.00 ppb	18:51:11
3	SiO2†	1771.9	13.0	1.2622 µg/L	1.2622 ppb	18:51:11
3	Si 251.611†	804.4	-24.7	-0.3658 µg/L	-0.3658 ppb	18:50:51
3	Sn 189.927†	10.9	12.2	0.7583 µg/L	0.7583 ppb	18:51:11
3	Ti 334.940†	1048.8	105.9	0.0999 µg/L	0.0999 ppb	18:50:51
3	Tl 190.801†	-119.3	-3.7	-0.4558 µg/L	-0.4558 ppb	18:51:11
3	U 409.014†	-309.5	-42.5	-2.4891 µg/L	-2.4891 ppb	18:50:51
3	V 292.402†	382.0	-18.2	-0.0926 µg/L	-0.0926 ppb	18:50:51
3	Zn 213.857†	566.8	7.7	0.0435 µg/L	0.0435 ppb	18:51:11

## Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1689165.4	98.309 %	0.6758			0.69%
Sc RADIAL	141361.4	96.9 %	0.36			0.37%
Y 371.029	1011508.8	98.521 %	0.6601			0.67%
Ag 328.068†	-96.6	-0.3674 µg/L	0.25571	-0.3674 ppb	0.25571	69.60%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	16.4	3.0334 µg/L	3.72004	3.0334 ppb	3.72004	122.63%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	6.2	1.8693 µg/L	0.89713	1.8693 ppb	0.89713	47.99%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	109.8	1.6192 µg/L	1.91554	1.6192 ppb	1.91554	118.30%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-8.5	-0.0343 µg/L	0.05718	-0.0343 ppb	0.05718	166.90%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	153.9	0.0401 µg/L	0.01409	0.0401 ppb	0.01409	35.11%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	43.0	2.3958 µg/L	0.76955	2.3958 ppb	0.76955	32.12%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	26.3	0.1639 µg/L	0.02723	0.1639 ppb	0.02723	16.61%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	18.4	0.2269 µg/L	0.22917	0.2269 ppb	0.22917	100.99%

QC value within limits for Co 228.616	Recovery = Not calculated			
Cr 267.716†	20.5	0.1654 µg/L	0.07718	0.1654 ppb
QC value within limits for Cr 267.716	Recovery = Not calculated			
Cu 324.752†	-80.1	-0.3159 µg/L	0.23936	-0.3159 ppb
QC value within limits for Cu 324.752	Recovery = Not calculated			
Fe 238.204 Radial†	25.1	1.5494 µg/L	0.75637	1.5494 ppb
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
K 766.490 Radial†	120.3	44.031 µg/L	32.4227	44.031 ppb
QC value within limits for K 766.490 Radial	Recovery = Not calculated			
Mg 279.077 IEC†	2.5	0.9341 µg/L	3.41013	0.9341 ppb
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
Mn 257.610†	2.7	0.0033 µg/L	0.01944	0.0033 ppb
QC value within limits for Mn 257.610	Recovery = Not calculated			
Mo 202.031†	1.5	0.0446 µg/L	0.31176	0.0446 ppb
QC value within limits for Mo 202.031	Recovery = Not calculated			
Na 589.592 Radial†	77.3	10.520 µg/L	12.1345	10.520 ppb
QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
Ni 231.604†	-5.7	-0.0661 µg/L	0.04849	-0.0661 ppb
QC value within limits for Ni 231.604	Recovery = Not calculated			
P 214.914†	4.9	1.0481 µg/L	1.28372	1.0481 ppb
QC value within limits for P 214.914	Recovery = Not calculated			
Pb 220.353†	8.7	0.4927 µg/L	0.54252	0.4927 ppb
QC value within limits for Pb 220.353	Recovery = Not calculated			
S 181.975 Axial†	-3.2	-2.4085 µg/L	4.84991	-2.4085 ppb
QC value within limits for S 181.975 Axial	Recovery = Not calculated			
Sb 206.836†	-1.6	-0.1970 µg/L	1.33468	-0.1970 ppb
QC value within limits for Sb 206.836	Recovery = Not calculated			
Se 196.026†	1.7	0.603 µg/L	5.5558	0.603 ppb
QC value within limits for Se 196.026	Recovery = Not calculated			
SiO2†	13.8	1.3380 µg/L	0.38138	1.3380 ppb
QC value within limits for SiO2	Recovery = Not calculated			
Si 251.611†	-89.0	-1.3160 µg/L	0.83316	-1.3160 ppb
QC value within limits for Si 251.611	Recovery = Not calculated			
Sn 189.927†	8.9	0.5532 µg/L	0.46851	0.5532 ppb
QC value within limits for Sn 189.927	Recovery = Not calculated			
Sr 421.552†	-23.8	-0.0494 µg/L	0.21749	-0.0494 ppb
QC value within limits for Sr 421.552	Recovery = Not calculated			
Ti 334.940†	41.8	0.0414 µg/L	0.05575	0.0414 ppb
QC value within limits for Ti 334.940	Recovery = Not calculated			
Tl 190.801†	0.6	0.0755 µg/L	0.50686	0.0755 ppb
QC value within limits for Tl 190.801	Recovery = Not calculated			
U 409.014†	-101.3	-5.9334 µg/L	2.98281	-5.9334 ppb
QC value within limits for U 409.014	Recovery = Not calculated			
V 292.402†	-42.2	-0.2088 µg/L	0.29151	-0.2088 ppb
QC value within limits for V 292.402	Recovery = Not calculated			
Zn 213.857†	13.8	0.0780 µg/L	0.06978	0.0780 ppb
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: 3/31/2010 18:51:18

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	140861.4	140861.4	96.5 %		18:51:48
1	Al 396.153Radial†	987.6	1086.3	200.96 µg/L	200.96 ppb	18:51:50
1	Ca 317.933Radial†	4191.0	3781.2	210.63 µg/L	210.63 ppb	18:51:50
1	Fe 238.204 Radial†	1792.5	1708.9	105.32 µg/L	105.32 ppb	18:51:50
1	K 766.490 Radial†	1849.3	371.1	135.70 µg/L	135.70 ppb	18:51:48
1	Mg 279.077 IEC†	1004.6	850.0	316.85 µg/L	316.85 ppb	18:51:50
1	Na 589.592 Radial†	3218.7	2043.7	279.07 µg/L	279.07 ppb	18:51:50
1	Sr 421.552†	2356.1	2576.2	5.3541 µg/L	5.3541 ppb	18:51:50
1	Sc 361.383	1696993.3	1696993.3	98.765 %		18:52:02
1	Y 371.029	1016566.5	1016566.5	99.014 %		18:52:02
1	Ag 328.068†	5094.4	1066.7	4.0516 µg/L	4.0516 ppb	18:52:04
1	As 188.979†	82.8	104.2	31.603 µg/L	31.603 ppb	18:52:24
1	B 249.677†	6532.0	3107.8	45.816 µg/L	45.816 ppb	18:52:04
1	Ba 233.527†	1080.9	1230.2	4.9619 µg/L	4.9619 ppb	18:52:24
1	Be 313.107†	16638.5	17911.3	4.8913 µg/L	4.8913 ppb	18:52:04
1	Cd 226.502†	682.8	809.6	5.0479 µg/L	5.0479 ppb	18:52:24
1	Co 228.616†	230.9	424.1	5.2325 µg/L	5.2325 ppb	18:52:24
1	Cr 267.716†	759.8	590.7	4.5885 µg/L	4.5885 ppb	18:52:24
1	Cu 324.752†	5375.4	2470.4	9.6665 µg/L	9.6665 ppb	18:52:04
1	Mn 257.610†	8461.3	8329.9	10.294 µg/L	10.294 ppb	18:52:04
1	Mo 202.031†	297.2	321.0	9.4457 µg/L	9.4457 ppb	18:52:24
1	Ni 231.604†	359.2	440.2	5.0686 µg/L	5.0686 ppb	18:52:24
1	P 214.914†	662.2	688.4	147.09 µg/L	147.09 ppb	18:52:24
1	Pb 220.353†	275.6	192.6	10.753 µg/L	10.753 ppb	18:52:24
1	S 181.975 Axial†	231.8	129.7	96.360 µg/L	96.360 ppb	18:52:24
1	Sb 206.836†	150.3	71.3	8.5656 µg/L	8.5656 ppb	18:52:24
1	Se 196.026†	92.5	78.4	28.4 µg/L	28.4 ppb	18:52:24
1	SiO2†	3882.7	2155.9	210.31 µg/L	210.31 ppb	18:52:04
1	Si 251.611†	7564.5	6822.6	100.39 µg/L	100.39 ppb	18:52:04
1	Sn 189.927†	162.8	165.9	10.360 µg/L	10.360 ppb	18:52:24
1	Ti 334.940†	6150.6	5275.0	4.8870 µg/L	4.8870 ppb	18:52:04
1	Tl 190.801†	46.5	163.8	20.204 µg/L	20.204 ppb	18:52:24
1	U 409.014†	536.3	812.9	47.827 µg/L	47.827 ppb	18:52:04
1	V 292.402†	1270.3	882.4	4.4384 µg/L	4.4384 ppb	18:52:04
1	Zn 213.857†	2321.2	1785.9	9.9841 µg/L	9.9841 ppb	18:52:24
2	Sc RADIAL	140936.7	140936.7	96.6 %		18:51:52
2	Al 396.153Radial†	972.6	1070.3	198.01 µg/L	198.01 ppb	18:51:54
2	Ca 317.933Radial†	4253.2	3843.3	214.09 µg/L	214.09 ppb	18:51:54
2	Fe 238.204 Radial†	1742.6	1656.2	102.08 µg/L	102.08 ppb	18:51:54
2	K 766.490 Radial†	1908.6	431.4	157.79 µg/L	157.79 ppb	18:51:52
2	Mg 279.077 IEC†	969.9	813.6	303.26 µg/L	303.26 ppb	18:51:54
2	Na 589.592 Radial†	3291.7	2117.5	289.13 µg/L	289.13 ppb	18:51:54
2	Sr 421.552†	2245.5	2460.3	5.1132 µg/L	5.1132 ppb	18:51:54
2	Sc 361.383	1687966.3	1687966.3	98.239 %		18:52:26
2	Y 371.029	1011019.5	1011019.5	98.474 %		18:52:26
2	Ag 328.068†	5292.9	1296.4	4.8998 µg/L	4.8998 ppb	18:52:28
2	As 188.979†	83.0	104.8	31.803 µg/L	31.803 ppb	18:52:48
2	B 249.677†	6698.9	3313.0	48.843 µg/L	48.843 ppb	18:52:28
2	Ba 233.527†	1087.4	1242.7	5.0120 µg/L	5.0120 ppb	18:52:48
2	Be 313.107†	16507.3	17867.9	4.8796 µg/L	4.8796 ppb	18:52:28
2	Cd 226.502†	680.2	810.6	5.0545 µg/L	5.0545 ppb	18:52:48
2	Co 228.616†	236.4	430.9	5.3167 µg/L	5.3167 ppb	18:52:48
2	Cr 267.716†	835.7	672.2	5.2260 µg/L	5.2260 ppb	18:52:48
2	Cu 324.752†	5528.6	2655.4	10.385 µg/L	10.385 ppb	18:52:28
2	Mn 257.610†	8398.7	8312.0	10.272 µg/L	10.272 ppb	18:52:28
2	Mo 202.031†	283.2	308.3	9.0728 µg/L	9.0728 ppb	18:52:48
2	Ni 231.604†	357.6	440.5	5.0722 µg/L	5.0722 ppb	18:52:48
2	P 214.914†	662.1	691.9	147.84 µg/L	147.84 ppb	18:52:48
2	Pb 220.353†	294.5	213.4	11.913 µg/L	11.913 ppb	18:52:48

2	S 181.975 Axial†	239.0	138.2	102.73 µg/L	102.73 ppb	18:52:48
2	Sb 206.836†	162.6	84.7	10.140 µg/L	10.140 ppb	18:52:48
2	Se 196.026†	98.4	84.9	30.8 µg/L	30.8 ppb	18:52:48
2	SiO2†	3912.9	2207.6	215.37 µg/L	215.37 ppb	18:52:28
2	Si 251.611†	7475.2	6772.6	99.658 µg/L	99.658 ppb	18:52:28
2	Sn 189.927†	165.0	169.0	10.554 µg/L	10.554 ppb	18:52:48
2	Ti 334.940†	5906.4	5059.7	4.6867 µg/L	4.6867 ppb	18:52:28
2	Tl 190.801†	41.0	158.5	19.548 µg/L	19.548 ppb	18:52:48
2	U 409.014†	539.0	818.5	48.142 µg/L	48.142 ppb	18:52:28
2	V 292.402†	1219.4	837.5	4.2189 µg/L	4.2189 ppb	18:52:28
2	Zn 213.857†	2338.9	1816.4	10.155 µg/L	10.155 ppb	18:52:48
3	Sc RADIAL	141853.7	141853.7	97.2 %		18:51:56
3	Al 396.153Radial†	1054.0	1147.5	212.32 µg/L	212.32 ppb	18:51:58
3	Ca 317.933Radial†	4255.4	3817.1	212.63 µg/L	212.63 ppb	18:51:58
3	Fe 238.204 Radial†	1716.2	1617.5	99.690 µg/L	99.690 ppb	18:51:58
3	K 766.490 Radial†	1916.0	426.3	155.92 µg/L	155.92 ppb	18:51:56
3	Mg 279.077 IEC†	1001.3	839.3	312.86 µg/L	312.86 ppb	18:51:58
3	Na 589.592 Radial†	3186.5	1987.3	271.34 µg/L	271.34 ppb	18:51:58
3	Sr 421.552†	2248.0	2447.8	5.0873 µg/L	5.0873 ppb	18:51:58
3	Sc 361.383	1703589.6	1703589.6	99.149 %		18:52:50
3	Y 371.029	1020076.1	1020076.1	99.356 %		18:52:50
3	Ag 328.068†	5329.5	1283.9	4.8863 µg/L	4.8863 ppb	18:52:52
3	As 188.979†	68.9	89.8	27.263 µg/L	27.263 ppb	18:53:13
3	B 249.677†	6826.1	3378.8	49.814 µg/L	49.814 ppb	18:52:52
3	Ba 233.527†	1095.4	1240.7	5.0047 µg/L	5.0047 ppb	18:53:13
3	Be 313.107†	16765.5	17974.2	4.9127 µg/L	4.9127 ppb	18:52:52
3	Cd 226.502†	685.3	809.4	5.0473 µg/L	5.0473 ppb	18:53:13
3	Co 228.616†	212.4	404.5	4.9910 µg/L	4.9910 ppb	18:53:13
3	Cr 267.716†	807.3	635.7	4.9297 µg/L	4.9297 ppb	18:53:13
3	Cu 324.752†	5461.8	2536.5	9.9340 µg/L	9.9340 ppb	18:52:52
3	Mn 257.610†	8558.8	8395.0	10.374 µg/L	10.374 ppb	18:52:52
3	Mo 202.031†	286.1	308.6	9.0804 µg/L	9.0804 ppb	18:53:13
3	Ni 231.604†	341.2	420.7	4.8437 µg/L	4.8437 ppb	18:53:13
3	P 214.914†	668.0	691.7	147.81 µg/L	147.81 ppb	18:53:13
3	Pb 220.353†	280.1	196.2	10.941 µg/L	10.941 ppb	18:53:13
3	S 181.975 Axial†	229.3	126.2	93.811 µg/L	93.811 ppb	18:53:13
3	Sb 206.836†	165.2	85.8	10.280 µg/L	10.280 ppb	18:53:13
3	Se 196.026†	109.6	95.3	34.5 µg/L	34.5 ppb	18:53:13
3	SiO2†	3891.1	2149.2	209.66 µg/L	209.66 ppb	18:52:52
3	Si 251.611†	7576.0	6804.5	100.13 µg/L	100.13 ppb	18:52:52
3	Sn 189.927†	163.2	165.7	10.345 µg/L	10.345 ppb	18:53:13
3	Ti 334.940†	6177.6	5278.1	4.8843 µg/L	4.8843 ppb	18:52:52
3	Tl 190.801†	27.8	144.7	17.868 µg/L	17.868 ppb	18:53:13
3	U 409.014†	779.2	1055.8	62.094 µg/L	62.094 ppb	18:52:52
3	V 292.402†	1501.4	1110.5	5.5591 µg/L	5.5591 ppb	18:52:52
3	Zn 213.857†	2359.0	1814.8	10.149 µg/L	10.149 ppb	18:53:13

## Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1696183.1	98.718 %	0.4565			0.46%
Sc RADIAL	141217.3	96.8 %	0.38			0.39%
Y 371.029	1015887.4	98.948 %	0.4448			0.45%
Ag 328.068†	1215.7	4.6126 µg/L	0.48588	4.6126 ppb	0.48588	10.53%
QC value within limits for Ag 328.068 Recovery = 92.25%						
Al 396.153Radial†	1101.4	203.76 µg/L	7.553	203.76 ppb	7.553	3.71%
QC value within limits for Al 396.153Radial Recovery = 101.88%						
As 188.979†	99.6	30.223 µg/L	2.5657	30.223 ppb	2.5657	8.49%
QC value within limits for As 188.979 Recovery = 100.74%						
B 249.677†	3266.5	48.158 µg/L	2.0851	48.158 ppb	2.0851	4.33%
QC value within limits for B 249.677 Recovery = 96.32%						
Ba 233.527†	1237.9	4.9928 µg/L	0.02706	4.9928 ppb	0.02706	0.54%
QC value within limits for Ba 233.527 Recovery = 99.86%						
Be 313.107†	17917.8	4.8945 µg/L	0.01680	4.8945 ppb	0.01680	0.34%
QC value within limits for Be 313.107 Recovery = 97.89%						
Ca 317.933Radial†	3813.9	212.45 µg/L	1.736	212.45 ppb	1.736	0.82%
QC value within limits for Ca 317.933Radial Recovery = 106.22%						
Cd 226.502†	809.8	5.0499 µg/L	0.00397	5.0499 ppb	0.00397	0.08%
QC value within limits for Cd 226.502 Recovery = 101.00%						
Co 228.616†	419.8	5.1801 µg/L	0.16905	5.1801 ppb	0.16905	3.26%

QC value within limits for Co 228.616 Recovery = 103.60%							
Cr 267.716†	632.8	4.9147 µg/L	0.31903	4.9147 ppb	0.31903	6.49%	
QC value within limits for Cr 267.716 Recovery = 98.29%							
Cu 324.752†	2554.1	9.9952 µg/L	0.36319	9.9952 ppb	0.36319	3.63%	
QC value within limits for Cu 324.752 Recovery = 99.95%							
Fe 238.204 Radial†	1660.8	102.36 µg/L	2.828	102.36 ppb	2.828	2.76%	
QC value within limits for Fe 238.204 Radial Recovery = 102.36%							
K 766.490 Radial†	409.6	149.80 µg/L	12.246	149.80 ppb	12.246	8.17%	
QC value within limits for K 766.490 Radial Recovery = 99.87%							
Mg 279.077 IEC†	834.3	310.99 µg/L	6.984	310.99 ppb	6.984	2.25%	
QC value within limits for Mg 279.077 IEC Recovery = 103.66%							
Mn 257.610†	8345.6	10.313 µg/L	0.0539	10.313 ppb	0.0539	0.52%	
QC value within limits for Mn 257.610 Recovery = 103.13%							
Mo 202.031†	312.7	9.1996 µg/L	0.21314	9.1996 ppb	0.21314	2.32%	
QC value within limits for Mo 202.031 Recovery = 92.00%							
Na 589.592 Radial†	2049.5	279.85 µg/L	8.919	279.85 ppb	8.919	3.19%	
QC value within limits for Na 589.592 Radial Recovery = 93.28%							
Ni 231.604†	433.8	4.9948 µg/L	0.13089	4.9948 ppb	0.13089	2.62%	
QC value within limits for Ni 231.604 Recovery = 99.90%							
P 214.914†	690.7	147.58 µg/L	0.423	147.58 ppb	0.423	0.29%	
QC value within limits for P 214.914 Recovery = 98.39%							
Pb 220.353†	200.7	11.202 µg/L	0.6223	11.202 ppb	0.6223	5.56%	
QC value within limits for Pb 220.353 Recovery = 112.02%							
S 181.975 Axial†	131.4	97.634 µg/L	4.5940	97.634 ppb	4.5940	4.71%	
QC value within limits for S 181.975 Axial Recovery = 97.63%							
Sb 206.836†	80.6	9.6618 µg/L	0.95194	9.6618 ppb	0.95194	9.85%	
QC value within limits for Sb 206.836 Recovery = 96.62%							
Se 196.026†	86.2	31.2 µg/L	3.09	31.2 ppb	3.09	9.88%	
QC value within limits for Se 196.026 Recovery = 104.17%							
SiO2†	2170.9	211.78 µg/L	3.127	211.78 ppb	3.127	1.48%	
QC value within limits for SiO2 Recovery = 99.43%							
Si 251.611†	6799.9	100.06 µg/L	0.371	100.06 ppb	0.371	0.37%	
QC value within limits for Si 251.611 Recovery = 100.06%							
Sn 189.927†	166.9	10.420 µg/L	0.1167	10.420 ppb	0.1167	1.12%	
QC value within limits for Sn 189.927 Recovery = 104.20%							
Sr 421.552†	2494.8	5.1849 µg/L	0.14714	5.1849 ppb	0.14714	2.84%	
QC value within limits for Sr 421.552 Recovery = 103.70%							
Ti 334.940†	5204.3	4.8193 µg/L	0.11489	4.8193 ppb	0.11489	2.38%	
QC value within limits for Ti 334.940 Recovery = 96.39%							
Tl 190.801†	155.6	19.207 µg/L	1.2048	19.207 ppb	1.2048	6.27%	
QC value within limits for Tl 190.801 Recovery = 96.03%							
U 409.014†	895.8	52.688 µg/L	8.1477	52.688 ppb	8.1477	15.46%	
QC value within limits for U 409.014 Recovery = 105.38%							
V 292.402†	943.5	4.7388 µg/L	0.71883	4.7388 ppb	0.71883	15.17%	
QC value within limits for V 292.402 Recovery = 94.78%							
Zn 213.857†	1805.7	10.096 µg/L	0.0971	10.096 ppb	0.0971	0.96%	
QC value within limits for Zn 213.857 Recovery = 100.96%							
All analyte(s) passed QC.							

Sequence No.: 9

Sample ID: ICSA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 103

Date Collected: 3/31/2010 18:53:20

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	132242.6	132242.6	90.6 %		18:53:53
1	Al 396.153Radial†	2422897.8	2673731.8	495710 µg/L	495710 ppb	18:53:51
1	Ca 317.933Radial†	7691621.4	8487146.3	472770 µg/L	472770 ppb	18:53:51
1	Fe 238.204 Radial†	2755313.8	3040341.6	187390 µg/L	187390 ppb	18:53:51
1	K 766.490 Radial†	1640.2	265.2	-138.93 µg/L	-138.93 ppb	18:53:53
1	Mg 279.077 IEC†	1160629.2	1280564.0	476960 µg/L	476960 ppb	18:53:51
1	Na 589.592 Radial†	1484.0	346.8	47.294 µg/L	47.294 ppb	18:53:53
1	Sr 421.552†	1473.7	1761.6	-0.0382 µg/L	-0.0382 ppb	18:53:53
1	Sc 361.383	1517022.4	1517022.4	88.290 %		18:54:06
1	Y 371.029	894868.4	894868.4	87.161 %		18:54:06
1	Ag 328.068†	6255.0	2993.2	-1.9729 µg/L	-1.9729 ppb	18:54:06
1	As 188.979†	-100.1	-93.0	13.877 µg/L	13.877 ppb	18:54:26
1	B 249.677†	3380.9	323.4	4.7554 µg/L	4.7554 ppb	18:54:06
1	Ba 233.527†	434.1	627.6	0.1345 µg/L	0.1345 ppb	18:54:26
1	Be 313.107†	-1147.6	-235.1	-0.0621 µg/L	-0.0621 ppb	18:54:06
1	Cd 226.502†	2412.4	2850.5	-1.8998 µg/L	-1.8998 ppb	18:54:26
1	Co 228.616†	123.8	330.6	-5.6944 µg/L	-5.6944 ppb	18:54:26
1	Cr 267.716†	198.7	46.5	1.0479 µg/L	1.0479 ppb	18:54:26
1	Cu 324.752†	-5619.3	-9336.8	3.9046 µg/L	3.9046 ppb	18:54:06
1	Mn 257.610†	16860.5	18859.4	3.9217 µg/L	3.9217 ppb	18:54:06
1	Mo 202.031†	-556.1	-609.8	-1.7911 µg/L	-1.7911 ppb	18:54:26
1	Ni 231.604†	185.4	286.5	3.2984 µg/L	3.2984 ppb	18:54:26
1	P 214.914†	178.3	219.9	29.959 µg/L	29.959 ppb	18:54:26
1	Pb 220.353†	-392.3	-530.7	-4.9340 µg/L	-4.9340 ppb	18:54:26
1	S 181.975 Axial†	184.5	103.9	77.024 µg/L	77.024 ppb	18:54:26
1	Sb 206.836†	109.1	42.8	-0.8364 µg/L	-0.8364 ppb	18:54:26
1	Se 196.026†	-143.5	-177.8	0.756 µg/L	0.756 ppb	18:54:26
1	SiO2†	1661.3	106.3	10.857 µg/L	10.857 ppb	18:54:26
1	Si 251.611†	457.4	-318.5	-4.4771 µg/L	-4.4771 ppb	18:54:26
1	Sn 189.927†	41.8	48.5	3.1002 µg/L	3.1002 ppb	18:54:26
1	Ti 334.940†	22402.5	24421.1	-3.7208 µg/L	-3.7208 ppb	18:54:06
1	Tl 190.801†	-159.3	-63.8	-7.4175 µg/L	-7.4175 ppb	18:54:26
1	U 409.014†	-141.4	109.7	-14.558 µg/L	-14.558 ppb	18:54:06
1	V 292.402†	4081.9	4219.5	0.6141 µg/L	0.6141 ppb	18:54:06
1	Zn 213.857†	4369.0	4384.0	8.5615 µg/L	8.5615 ppb	18:54:26
2	Sc RADIAL	132040.0	132040.0	90.5 %		18:53:58
2	Al 396.153Radial†	2444947.4	2702202.7	500990 µg/L	500990 ppb	18:53:56
2	Ca 317.933Radial†	7800125.3	8620085.6	480170 µg/L	480170 ppb	18:53:56
2	Fe 238.204 Radial†	2791790.4	3085319.9	190160 µg/L	190160 ppb	18:53:56
2	K 766.490 Radial†	1740.8	379.1	-100.42 µg/L	-100.42 ppb	18:53:58
2	Mg 279.077 IEC†	1178560.0	1302345.9	485070 µg/L	485070 ppb	18:53:56
2	Na 589.592 Radial†	1410.4	267.9	36.479 µg/L	36.479 ppb	18:53:58
2	Sr 421.552†	1434.5	1720.7	-0.1811 µg/L	-0.1811 ppb	18:53:58
2	Sc 361.383	1500109.7	1500109.7	87.306 %		18:54:29
2	Y 371.029	884042.0	884042.0	86.106 %		18:54:29
2	Ag 328.068†	6203.9	3014.6	-2.1211 µg/L	-2.1211 ppb	18:54:29
2	As 188.979†	-119.9	-117.0	7.2444 µg/L	7.2444 ppb	18:54:49
2	B 249.677†	3505.1	508.8	7.4908 µg/L	7.4908 ppb	18:54:29
2	Ba 233.527†	482.5	688.5	0.3435 µg/L	0.3435 ppb	18:54:49
2	Be 313.107†	-1215.4	-327.4	-0.0902 µg/L	-0.0902 ppb	18:54:29
2	Cd 226.502†	2441.6	2914.8	-1.7901 µg/L	-1.7901 ppb	18:54:49
2	Co 228.616†	105.8	311.5	-6.0736 µg/L	-6.0736 ppb	18:54:49
2	Cr 267.716†	217.8	70.9	1.2432 µg/L	1.2432 ppb	18:54:49
2	Cu 324.752†	-5483.5	-9253.0	4.8451 µg/L	4.8451 ppb	18:54:29
2	Mn 257.610†	16639.0	18821.0	3.5450 µg/L	3.5450 ppb	18:54:29
2	Mo 202.031†	-590.4	-656.1	-2.8945 µg/L	-2.8945 ppb	18:54:49
2	Ni 231.604†	122.0	216.3	2.4904 µg/L	2.4904 ppb	18:54:49
2	P 214.914†	170.4	213.2	27.815 µg/L	27.815 ppb	18:54:49
2	Pb 220.353†	-391.2	-534.5	-4.9028 µg/L	-4.9028 ppb	18:54:49

2	S 181.975 Axial†	176.5	97.2	71.982 µg/L	71.982 ppb	18:54:49
2	Sb 206.836†	116.0	52.0	0.1714 µg/L	0.1714 ppb	18:54:49
2	Se 196.026†	-172.4	-212.7	-10.9 µg/L	-10.9 ppb	18:54:49
2	SiO2†	1633.2	95.3	9.7946 µg/L	9.7946 ppb	18:54:49
2	Si 251.611†	508.3	-254.3	-3.5215 µg/L	-3.5215 ppb	18:54:49
2	Sn 189.927†	60.8	70.8	4.4873 µg/L	4.4873 ppb	18:54:49
2	Ti 334.940†	21754.3	23964.7	-4.6112 µg/L	-4.6112 ppb	18:54:29
2	Tl 190.801†	-183.8	-93.9	-11.124 µg/L	-11.124 ppb	18:54:49
2	U 409.014†	-286.0	-57.7	-24.699 µg/L	-24.699 ppb	18:54:29
2	V 292.402†	3918.7	4084.7	-0.3553 µg/L	-0.3553 ppb	18:54:29
2	Zn 213.857†	4368.9	4439.7	8.6032 µg/L	8.6032 ppb	18:54:49
3	Sc RADIAL	128528.5	128528.5	88.1 %		18:54:02
3	Al 396.153Radial†	2425420.2	2753857.9	510560 µg/L	510560 ppb	18:54:00
3	Ca 317.933Radial†	7690261.2	8730875.1	486340 µg/L	486340 ppb	18:54:00
3	Fe 238.204 Radial†	2749581.2	3121695.4	192400 µg/L	192400 ppb	18:54:00
3	K 766.490 Radial†	1659.5	339.4	-118.61 µg/L	-118.61 ppb	18:54:02
3	Mg 279.077 IEC†	1158065.5	1314663.8	489660 µg/L	489660 ppb	18:54:00
3	Na 589.592 Radial†	1347.0	238.6	32.485 µg/L	32.485 ppb	18:54:02
3	Sr 421.552†	1492.5	1829.9	-0.0025 µg/L	-0.0025 ppb	18:54:02
3	Sc 361.383	1514195.4	1514195.4	88.126 %		18:54:52
3	Y 371.029	891947.3	891947.3	86.876 %		18:54:52
3	Ag 328.068†	6032.7	2754.1	-3.2379 µg/L	-3.2379 ppb	18:54:52
3	As 188.979†	-108.0	-102.2	12.211 µg/L	12.211 ppb	18:55:12
3	B 249.677†	3436.5	393.7	5.7936 µg/L	5.7936 ppb	18:54:52
3	Ba 233.527†	448.2	644.5	0.1380 µg/L	0.1380 ppb	18:55:12
3	Be 313.107†	-1158.8	-250.2	-0.0644 µg/L	-0.0644 ppb	18:54:52
3	Cd 226.502†	2438.6	2885.4	-2.2095 µg/L	-2.2095 ppb	18:55:12
3	Co 228.616†	90.0	292.5	-6.4255 µg/L	-6.4255 ppb	18:55:12
3	Cr 267.716†	181.2	27.0	0.9095 µg/L	0.9095 ppb	18:55:12
3	Cu 324.752†	-5570.7	-9293.5	5.1506 µg/L	5.1506 ppb	18:54:52
3	Mn 257.610†	16733.6	18751.0	3.2706 µg/L	3.2706 ppb	18:54:52
3	Mo 202.031†	-556.7	-611.6	-1.4146 µg/L	-1.4146 ppb	18:55:12
3	Ni 231.604†	136.4	231.3	2.6634 µg/L	2.6634 ppb	18:55:12
3	P 214.914†	188.3	231.6	32.331 µg/L	32.331 ppb	18:55:12
3	Pb 220.353†	-364.7	-500.2	-2.4766 µg/L	-2.4766 ppb	18:55:12
3	S 181.975 Axial†	176.2	94.9	70.345 µg/L	70.345 ppb	18:55:12
3	Sb 206.836†	127.8	64.2	1.5521 µg/L	1.5521 ppb	18:55:12
3	Se 196.026†	-157.0	-193.4	-3.16 µg/L	-3.16 ppb	18:55:12
3	SiO2†	1710.0	165.0	16.582 µg/L	16.582 ppb	18:55:12
3	Si 251.611†	438.9	-338.5	-4.7759 µg/L	-4.7759 ppb	18:55:12
3	Sn 189.927†	52.5	60.6	3.8554 µg/L	3.8554 ppb	18:55:12
3	Ti 334.940†	21892.4	23889.7	-4.9005 µg/L	-4.9005 ppb	18:54:52
3	Tl 190.801†	-161.6	-66.7	-7.7840 µg/L	-7.7840 ppb	18:55:12
3	U 409.014†	-54.1	208.5	-9.3710 µg/L	-9.3710 ppb	18:54:52
3	V 292.402†	3967.3	4098.1	-0.5042 µg/L	-0.5042 ppb	18:54:52
3	Zn 213.857†	4428.1	4460.3	8.5816 µg/L	8.5816 ppb	18:55:12

## Mean Data: ICSEA

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1510442.5	87.908 %		0.5273			0.60%
Sc RADIAL	130937.0	89.7 %		1.43			1.59%
Y 371.029	890285.9	86.714 %		0.5456			0.63%
Ag 328.068†	2920.6	-2.4440 µg/L		0.69159	-2.4440 ppb	0.69159	28.30%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	2709930.8	502420 µg/L		7530.6	502420 ppb	7530.6	1.50%
QC value within limits for Al 396.153Radial Recovery = 100.48%							
As 188.979†	-104.0	11.111 µg/L		3.4505	11.111 ppb	3.4505	31.06%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	408.6	6.0133 µg/L		1.38084	6.0133 ppb	1.38084	22.96%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	653.5	0.2053 µg/L		0.11966	0.2053 ppb	0.11966	58.27%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-270.9	-0.0722 µg/L		0.01558	-0.0722 ppb	0.01558	21.57%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	8612702.4	479760 µg/L		6797.7	479760 ppb	6797.7	1.42%
QC value within limits for Ca 317.933Radial Recovery = 95.95%							
Cd 226.502†	2883.6	-1.9665 µg/L		0.21751	-1.9665 ppb	0.21751	11.06%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	311.5	-6.0645 µg/L		0.36562	-6.0645 ppb	0.36562	6.03%



QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	48.1	1.0668 µg/L	0.16765	1.0668 ppb	0.16765	15.71%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-9294.4	4.6334 µg/L	0.64943	4.6334 ppb	0.64943	14.02%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	3082452.3	189980 µg/L	2511.7	189980 ppb	2511.7	1.32%	
QC value within limits for Fe 238.204 Radial Recovery = 94.99%							
K 766.490 Radial†	327.9	-119.32 µg/L	19.263	-119.32 ppb	19.263	16.14%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1299191.2	483900 µg/L	6431.4	483900 ppb	6431.4	1.33%	
QC value within limits for Mg 279.077 IEC Recovery = 96.78%							
Mn 257.610†	18810.4	3.5791 µg/L	0.32691	3.5791 ppb	0.32691	9.13%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-625.9	-2.0334 µg/L	0.76912	-2.0334 ppb	0.76912	37.82%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	284.5	38.753 µg/L	7.6619	38.753 ppb	7.6619	19.77%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	244.7	2.8174 µg/L	0.42544	2.8174 ppb	0.42544	15.10%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	221.6	30.035 µg/L	2.2592	30.035 ppb	2.2592	7.52%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-521.8	-4.1045 µg/L	1.40989	-4.1045 ppb	1.40989	34.35%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	98.7	73.117 µg/L	3.4814	73.117 ppb	3.4814	4.76%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	53.0	0.2957 µg/L	1.19909	0.2957 ppb	1.19909	405.55%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-194.6	-4.44 µg/L	5.948	-4.44 ppb	5.948	133.85%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	122.2	12.411 µg/L	3.6511	12.411 ppb	3.6511	29.42%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	-303.8	-4.2582 µg/L	0.65524	-4.2582 ppb	0.65524	15.39%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	60.0	3.8143 µg/L	0.69446	3.8143 ppb	0.69446	18.21%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	1770.7	-0.0740 µg/L	0.09453	-0.0740 ppb	0.09453	127.80%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	24091.8	-4.4108 µg/L	0.61484	-4.4108 ppb	0.61484	13.94%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-74.8	-8.7751 µg/L	2.04236	-8.7751 ppb	2.04236	23.27%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	86.8	-16.209 µg/L	7.7964	-16.209 ppb	7.7964	48.10%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	4134.1	-0.0818 µg/L	0.60724	-0.0818 ppb	0.60724	742.33%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	4428.0	8.5821 µg/L	0.02081	8.5821 ppb	0.02081	0.24%	
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: 3/31/2010 18:55:20  
 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	128923.7	128923.7	88.3 %		18:55:52
1	Al 396.153Radial†	2441585.6	2763714.4	512370 µg/L	512370 ppb	18:55:50
1	Ca 317.933Radial†	7758514.8	8781367.4	489160 µg/L	489160 ppb	18:55:50
1	Fe 238.204 Radial†	2782554.2	3149448.4	194110 µg/L	194110 ppb	18:55:50
1	K 766.490 Radial†	15194.3	15653.8	5486.8 µg/L	5486.8 ppb	18:55:52
1	Mg 279.077 IEC†	1148118.0	1299373.7	483970 µg/L	483970 ppb	18:55:52
1	Na 589.592 Radial†	35618.0	39025.6	5326.3 µg/L	5326.3 ppb	18:55:52
1	Sr 421.552†	218553.1	247517.3	510.75 µg/L	510.75 ppb	18:55:52
1	Sc 361.383	1501848.4	1501848.4	87.407 %		18:56:05
1	Y 371.029	885934.6	885934.6	86.290 %		18:56:05
1	Ag 328.068†	68208.1	73943.4	266.87 µg/L	266.87 ppb	18:56:05
1	As 188.979†	1287.3	1493.1	500.98 µg/L	500.98 ppb	18:56:07
1	B 249.677†	33851.7	35222.8	517.92 µg/L	517.92 ppb	18:56:05
1	Ba 233.527†	108371.1	124119.8	498.16 µg/L	498.16 ppb	18:56:05
1	Be 313.107†	784555.4	898650.0	244.84 µg/L	244.84 ppb	18:56:05
1	Cd 226.502†	69032.6	79096.3	473.84 µg/L	473.84 ppb	18:56:05
1	Co 228.616†	31520.5	36252.0	437.70 µg/L	437.70 ppb	18:56:07
1	Cr 267.716†	53782.3	61352.1	481.07 µg/L	481.07 ppb	18:56:07
1	Cu 324.752†	114717.9	128272.9	540.53 µg/L	540.53 ppb	18:56:05
1	Mn 257.610†	356699.6	407851.6	484.93 µg/L	484.93 ppb	18:56:05
1	Mo 202.031†	13953.9	15984.3	486.45 µg/L	486.45 ppb	18:56:07
1	Ni 231.604†	34191.5	39194.0	451.29 µg/L	451.29 ppb	18:56:07
1	P 214.914†	10448.2	11971.4	2535.7 µg/L	2535.7 ppb	18:56:07
1	Pb 220.353†	6755.9	7642.9	453.53 µg/L	453.53 ppb	18:56:07
1	S 181.975 Axial†	3250.1	3613.3	2687.1 µg/L	2687.1 ppb	18:56:07
1	Sb 206.836†	3785.3	4249.8	500.40 µg/L	500.40 ppb	18:56:07
1	Se 196.026†	5624.0	6419.0	2390 µg/L	2390 ppb	18:56:07
1	SiO2†	99846.0	112455.3	10971 µg/L	10971 ppb	18:56:05
1	Si 251.611†	306352.4	349651.7	5145.5 µg/L	5145.5 ppb	18:56:05
1	Sn 189.927†	6636.1	7593.3	475.14 µg/L	475.14 ppb	18:56:07
1	Ti 334.940†	496139.0	566664.5	502.37 µg/L	502.37 ppb	18:56:05
1	Tl 190.801†	3058.5	3615.8	452.56 µg/L	452.56 ppb	18:56:07
1	U 409.014†	7410.9	8748.5	521.43 µg/L	521.43 ppb	18:56:05
1	V 292.402†	94726.2	107969.5	513.01 µg/L	513.01 ppb	18:56:05
1	Zn 213.857†	80178.7	91165.5	492.35 µg/L	492.35 ppb	18:56:05
2	Sc RADIAL	130306.5	130306.5	89.3 %		18:55:57
2	Al 396.153Radial†	2425762.3	2716664.8	503640 µg/L	503640 ppb	18:55:54
2	Ca 317.933Radial†	7696197.0	8618379.7	480080 µg/L	480080 ppb	18:55:54
2	Fe 238.204 Radial†	2760250.1	3091044.9	190510 µg/L	190510 ppb	18:55:54
2	K 766.490 Radial†	15576.4	15899.2	5580.2 µg/L	5580.2 ppb	18:55:57
2	Mg 279.077 IEC†	1163916.5	1303274.7	485430 µg/L	485430 ppb	18:55:57
2	Na 589.592 Radial†	35962.5	38983.4	5320.4 µg/L	5320.4 ppb	18:55:57
2	Sr 421.552†	221063.2	247703.0	511.20 µg/L	511.20 ppb	18:55:57
2	Sc 361.383	1503774.7	1503774.7	87.519 %		18:56:10
2	Y 371.029	887039.9	887039.9	86.398 %		18:56:10
2	Ag 328.068†	68293.1	73940.5	267.10 µg/L	267.10 ppb	18:56:10
2	As 188.979†	1349.3	1562.1	521.08 µg/L	521.08 ppb	18:56:12
2	B 249.677†	33920.1	35251.3	518.32 µg/L	518.32 ppb	18:56:10
2	Ba 233.527†	108643.6	124272.4	498.82 µg/L	498.82 ppb	18:56:10
2	Be 313.107†	786963.6	900251.8	245.27 µg/L	245.27 ppb	18:56:10
2	Cd 226.502†	69426.5	79445.1	476.40 µg/L	476.40 ppb	18:56:10
2	Co 228.616†	32044.4	36804.3	444.70 µg/L	444.70 ppb	18:56:12
2	Cr 267.716†	54375.8	61951.4	485.63 µg/L	485.63 ppb	18:56:12
2	Cu 324.752†	115372.1	128852.4	542.29 µg/L	542.29 ppb	18:56:10
2	Mn 257.610†	357810.4	408598.0	485.80 µg/L	485.80 ppb	18:56:10
2	Mo 202.031†	14059.7	16084.7	489.29 µg/L	489.29 ppb	18:56:12
2	Ni 231.604†	34695.4	39719.6	457.34 µg/L	457.34 ppb	18:56:12
2	P 214.914†	10657.1	12194.8	2584.0 µg/L	2584.0 ppb	18:56:12
2	Pb 220.353†	7007.7	7920.6	468.62 µg/L	468.62 ppb	18:56:12

2	S 181.975 Axial†	3226.8	3581.8	2663.8 µg/L	2663.8 ppb	18:56:12
2	Sb 206.836†	3801.0	4262.2	501.96 µg/L	501.96 ppb	18:56:12
2	Se 196.026†	5730.0	6531.8	2430 µg/L	2430 ppb	18:56:12
2	SiO2†	100449.1	112998.1	11024 µg/L	11024 ppb	18:56:10
2	Si 251.611†	307929.3	351004.4	5165.3 µg/L	5165.3 ppb	18:56:10
2	Sn 189.927†	6796.2	7766.5	485.94 µg/L	485.94 ppb	18:56:12
2	Ti 334.940†	498020.9	568087.6	503.35 µg/L	503.35 ppb	18:56:10
2	Tl 190.801†	3159.1	3726.2	466.12 µg/L	466.12 ppb	18:56:12
2	U 409.014†	7207.8	8505.6	507.68 µg/L	507.68 ppb	18:56:10
2	V 292.402†	94912.3	108043.3	513.79 µg/L	513.79 ppb	18:56:10
2	Zn 213.857†	80541.8	91462.8	494.31 µg/L	494.31 ppb	18:56:10
3	Sc RADIAL	130048.3	130048.3	89.1 %		18:56:01
3	Al 396.153Radial†	2433855.1	2731140.9	506330 µg/L	506330 ppb	18:55:59
3	Ca 317.933Radial†	7718645.4	8660686.5	482430 µg/L	482430 ppb	18:55:59
3	Fe 238.204 Radial†	2766938.5	3104689.2	191350 µg/L	191350 ppb	18:55:59
3	K 766.490 Radial†	15537.1	15889.7	5575.7 µg/L	5575.7 ppb	18:56:01
3	Mg 279.077 IEC†	1162812.5	1304624.6	485930 µg/L	485930 ppb	18:56:01
3	Na 589.592 Radial†	36095.8	39213.0	5351.8 µg/L	5351.8 ppb	18:56:01
3	Sr 421.552†	220343.8	247387.5	510.53 µg/L	510.53 ppb	18:56:01
3	Sc 361.383	1505253.1	1505253.1	87.605 %		18:56:15
3	Y 371.029	887796.9	887796.9	86.472 %		18:56:15
3	Ag 328.068†	68315.0	73888.9	266.85 µg/L	266.85 ppb	18:56:15
3	As 188.979†	1427.8	1650.2	547.91 µg/L	547.91 ppb	18:56:17
3	B 249.677†	34091.4	35408.8	520.64 µg/L	520.64 ppb	18:56:15
3	Ba 233.527†	108923.3	124469.7	499.60 µg/L	499.60 ppb	18:56:15
3	Be 313.107†	788697.2	901347.5	245.57 µg/L	245.57 ppb	18:56:15
3	Cd 226.502†	69816.9	79812.9	478.61 µg/L	478.61 ppb	18:56:15
3	Co 228.616†	32104.8	36837.3	445.06 µg/L	445.06 ppb	18:56:17
3	Cr 267.716†	54241.6	61737.2	483.97 µg/L	483.97 ppb	18:56:17
3	Cu 324.752†	115315.5	128658.2	541.67 µg/L	541.67 ppb	18:56:15
3	Mn 257.610†	358650.2	409155.1	486.47 µg/L	486.47 ppb	18:56:15
3	Mo 202.031†	13985.2	15983.9	486.37 µg/L	486.37 ppb	18:56:17
3	Ni 231.604†	34565.9	39532.8	455.19 µg/L	455.19 ppb	18:56:17
3	P 214.914†	10680.3	12209.4	2587.2 µg/L	2587.2 ppb	18:56:17
3	Pb 220.353†	7037.5	7946.8	470.21 µg/L	470.21 ppb	18:56:17
3	S 181.975 Axial†	3275.8	3634.2	2702.6 µg/L	2702.6 ppb	18:56:17
3	Sb 206.836†	3858.4	4323.5	509.22 µg/L	509.22 ppb	18:56:17
3	Se 196.026†	5760.2	6559.9	2440 µg/L	2440 ppb	18:56:17
3	SiO2†	100355.9	112779.0	11003 µg/L	11003 ppb	18:56:15
3	Si 251.611†	307749.7	350453.9	5157.2 µg/L	5157.2 ppb	18:56:15
3	Sn 189.927†	6900.6	7878.0	492.90 µg/L	492.90 ppb	18:56:17
3	Ti 334.940†	498757.3	568369.4	503.63 µg/L	503.63 ppb	18:56:15
3	Tl 190.801†	3121.0	3679.2	460.34 µg/L	460.34 ppb	18:56:17
3	U 409.014†	7255.1	8551.4	510.28 µg/L	510.28 ppb	18:56:15
3	V 292.402†	95008.3	108046.4	513.68 µg/L	513.68 ppb	18:56:15
3	Zn 213.857†	80688.3	91539.7	494.68 µg/L	494.68 ppb	18:56:15

## Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1503625.4	87.511 %	0.0994			0.11%
Sc RADIAL	129759.5	88.9 %	0.50			0.57%
Y 371.029	886923.8	86.387 %	0.0912			0.11%
Ag 328.068†	73924.3	266.94 µg/L	0.141	266.94 ppb	0.141	0.05%
QC value within limits for Ag 328.068 Recovery = 106.78%						
Al 396.153Radial†	2737173.4	507450 µg/L	4467.8	507450 ppb	4467.8	0.88%
QC value within limits for Al 396.153Radial Recovery = 101.49%						
As 188.979†	1568.5	523.32 µg/L	23.543	523.32 ppb	23.543	4.50%
QC value within limits for As 188.979 Recovery = 104.66%						
B 249.677†	35294.3	518.96 µg/L	1.468	518.96 ppb	1.468	0.28%
QC value within limits for B 249.677 Recovery = 103.79%						
Ba 233.527†	124287.3	498.86 µg/L	0.724	498.86 ppb	0.724	0.15%
QC value within limits for Ba 233.527 Recovery = 99.77%						
Be 313.107†	900083.1	245.23 µg/L	0.367	245.23 ppb	0.367	0.15%
QC value within limits for Be 313.107 Recovery = 98.09%						
Ca 317.933Radial†	8686811.2	483890 µg/L	4711.2	483890 ppb	4711.2	0.97%
QC value within limits for Ca 317.933Radial Recovery = 96.78%						
Cd 226.502†	79451.4	476.29 µg/L	2.386	476.29 ppb	2.386	0.50%
QC value within limits for Cd 226.502 Recovery = 95.26%						
Co 228.616†	36631.2	442.49 µg/L	4.152	442.49 ppb	4.152	0.94%

QC value within limits for Co 228.616 Recovery = 88.50%							
Cr 267.716†	61680.2	483.56 µg/L	2.310	483.56 ppb	2.310	0.48%	
QC value within limits for Cr 267.716 Recovery = 96.71%							
Cu 324.752†	128594.5	541.50 µg/L	0.893	541.50 ppb	0.893	0.16%	
QC value within limits for Cu 324.752 Recovery = 108.30%							
Fe 238.204 Radial†	3115060.8	191990 µg/L	1883.0	191990 ppb	1883.0	0.98%	
QC value within limits for Fe 238.204 Radial Recovery = 96.00%							
K 766.490 Radial†	15814.2	5547.6 µg/L	52.66	5547.6 ppb	52.66	0.95%	
QC value within limits for K 766.490 Radial Recovery = 110.95%							
Mg 279.077 IEC†	1302424.3	485110 µg/L	1017.4	485110 ppb	1017.4	0.21%	
QC value within limits for Mg 279.077 IEC Recovery = 97.02%							
Mn 257.610†	408534.9	485.73 µg/L	0.774	485.73 ppb	0.774	0.16%	
QC value within limits for Mn 257.610 Recovery = 97.15%							
Mo 202.031†	16017.6	487.37 µg/L	1.662	487.37 ppb	1.662	0.34%	
QC value within limits for Mo 202.031 Recovery = 97.47%							
Na 589.592 Radial†	39074.0	5332.8 µg/L	16.68	5332.8 ppb	16.68	0.31%	
QC value within limits for Na 589.592 Radial Recovery = 106.66%							
Ni 231.604†	39482.1	454.61 µg/L	3.068	454.61 ppb	3.068	0.67%	
QC value within limits for Ni 231.604 Recovery = 90.92%							
P 214.914†	12125.2	2569.0 µg/L	28.88	2569.0 ppb	28.88	1.12%	
QC value within limits for P 214.914 Recovery = 102.76%							
Pb 220.353†	7836.8	464.12 µg/L	9.210	464.12 ppb	9.210	1.98%	
QC value within limits for Pb 220.353 Recovery = 92.82%							
S 181.975 Axial†	3609.8	2684.5 µg/L	19.56	2684.5 ppb	19.56	0.73%	
QC value within limits for S 181.975 Axial Recovery = 107.38%							
Sb 206.836†	4278.5	503.86 µg/L	4.707	503.86 ppb	4.707	0.93%	
QC value within limits for Sb 206.836 Recovery = 100.77%							
Se 196.026†	6503.6	2420 µg/L	26.4	2420 ppb	26.4	1.09%	
QC value within limits for Se 196.026 Recovery = 96.73%							
SiO2†	112744.1	10999 µg/L	26.6	10999 ppb	26.6	0.24%	
QC value within limits for SiO2 Recovery = 102.85%							
Si 251.611†	350370.0	5156.0 µg/L	9.97	5156.0 ppb	9.97	0.19%	
QC value within limits for Si 251.611 Recovery = 103.12%							
Sn 189.927†	7745.9	484.66 µg/L	8.948	484.66 ppb	8.948	1.85%	
QC value within limits for Sn 189.927 Recovery = 96.93%							
Sr 421.552†	247536.0	510.83 µg/L	0.344	510.83 ppb	0.344	0.07%	
QC value within limits for Sr 421.552 Recovery = 102.17%							
Ti 334.940†	567707.2	503.12 µg/L	0.662	503.12 ppb	0.662	0.13%	
QC value within limits for Ti 334.940 Recovery = 100.62%							
Tl 190.801†	3673.7	459.67 µg/L	6.804	459.67 ppb	6.804	1.48%	
QC value within limits for Tl 190.801 Recovery = 91.93%							
U 409.014†	8601.8	513.13 µg/L	7.307	513.13 ppb	7.307	1.42%	
QC value within limits for U 409.014 Recovery = 102.63%							
V 292.402†	108019.7	513.49 µg/L	0.422	513.49 ppb	0.422	0.08%	
QC value within limits for V 292.402 Recovery = 102.70%							
Zn 213.857†	91389.3	493.78 µg/L	1.251	493.78 ppb	1.251	0.25%	
QC value within limits for Zn 213.857 Recovery = 98.76%							
All analyte(s) passed QC.							

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

Autosampler Location: 105  
 Date Collected: 3/31/2010 18:56:26  
 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	128043.7	128043.7	87.7 %		18:56:58
1	Al 396.153Radial†	2381304.8	2714005.3	503180 µg/L	503180 ppb	18:56:56
1	Ca 317.933Radial†	7611014.0	8673613.0	483150 µg/L	483150 ppb	18:56:56
1	Fe 238.204 Radial†	6523125.5	7434173.2	458200 µg/L	458200 ppb	18:56:56
1	K 766.490 Radial†	2256.7	1027.2	53.040 µg/L	53.040 ppb	18:56:58
1	Mg 279.077 IEC†	1139739.5	1298755.6	483500 µg/L	483500 ppb	18:56:56
1	Na 589.592 Radial†	3271680.6	3727401.1	509210 µg/L	509210 ppb	18:56:56
1	Sr 421.552†	5079.9	5924.8	8.5355 µg/L	8.5355 ppb	18:56:58
1	Sc 361.383	1451583.4	1451583.4	84.482 %		18:57:26
1	Y 371.029	852879.4	852879.4	83.071 %		18:57:26
1	Ag 328.068†	2264.1	-1411.5	-0.2309 µg/L	-0.2309 ppb	18:57:26
1	As 188.979†	-305.1	-340.8	-0.3436 µg/L	-0.3436 ppb	18:57:28
1	B 249.677†	4415.2	1720.3	25.330 µg/L	25.330 ppb	18:57:26
1	Ba 233.527†	738.1	1009.5	-1.7895 µg/L	-1.7895 ppb	18:57:28
1	Be 313.107†	-15542.1	-17332.3	0.1527 µg/L	0.1527 ppb	18:57:26
1	Cd 226.502†	6136.8	7382.3	-2.0728 µg/L	-2.0728 ppb	18:57:28
1	Co 228.616†	663.9	976.1	-11.855 µg/L	-11.855 ppb	18:57:28
1	Cr 267.716†	326.4	207.8	-1.0531 µg/L	-1.0531 ppb	18:57:28
1	Cu 324.752†	-15976.1	-21882.9	8.0863 µg/L	8.0863 ppb	18:57:26
1	Mn 257.610†	18213.2	21321.4	5.9920 µg/L	5.9920 ppb	18:57:26
1	Mo 202.031†	-937.6	-1089.8	-5.0578 µg/L	-5.0578 ppb	18:57:26
1	Ni 231.604†	147.8	251.5	2.8954 µg/L	2.8954 ppb	18:57:28
1	P 214.914†	945.2	1136.8	44.272 µg/L	44.272 ppb	18:57:28
1	Pb 220.353†	-112.1	-219.1	-7.8626 µg/L	-7.8626 ppb	18:57:28
1	S 181.975 Axial†	176.1	103.3	76.471 µg/L	76.471 ppb	18:57:28
1	Sb 206.836†	186.9	140.4	7.1485 µg/L	7.1485 ppb	18:57:28
1	Se 196.026†	-404.8	-494.4	-4.21 µg/L	-4.21 ppb	18:57:28
1	SiO2†	1963.2	548.4	54.447 µg/L	54.447 ppb	18:57:28
1	Si 251.611†	-2032.7	-3242.6	-47.410 µg/L	-47.410 ppb	18:57:28
1	Sn 189.927†	64.2	77.1	4.9002 µg/L	4.9002 ppb	18:57:28
1	Ti 334.940†	26623.1	30560.8	-4.8606 µg/L	-4.8606 ppb	18:57:26
1	Tl 190.801†	-158.4	-70.8	-8.1165 µg/L	-8.1165 ppb	18:57:28
1	U 409.014†	232638.7	275640.9	16036 µg/L	16036 ppb	18:57:26
1	V 292.402†	7227.0	8150.7	1.9065 µg/L	1.9065 ppb	18:57:28
1	Zn 213.857†	8608.4	9625.2	9.4603 µg/L	9.4603 ppb	18:57:28
2	Sc RADIAL	127587.1	127587.1	87.4 %		18:57:03
2	Al 396.153Radial†	2344707.9	2681859.2	497220 µg/L	497220 ppb	18:57:01
2	Ca 317.933Radial†	7463583.8	8536029.3	475490 µg/L	475490 ppb	18:57:01
2	Fe 238.204 Radial†	6391908.1	7310696.0	450590 µg/L	450590 ppb	18:57:01
2	K 766.490 Radial†	2390.9	1189.8	117.32 µg/L	117.32 ppb	18:57:03
2	Mg 279.077 IEC†	1114206.6	1274200.4	474360 µg/L	474360 ppb	18:57:01
2	Na 589.592 Radial†	3209939.6	3670127.4	501380 µg/L	501380 ppb	18:57:01
2	Sr 421.552†	5135.8	6009.4	8.7715 µg/L	8.7715 ppb	18:57:03
2	Sc 361.383	1456448.3	1456448.3	84.765 %		18:57:30
2	Y 371.029	856251.9	856251.9	83.399 %		18:57:30
2	Ag 328.068†	2013.8	-1715.7	-1.0926 µg/L	-1.0926 ppb	18:57:30
2	As 188.979†	-237.9	-260.3	22.297 µg/L	22.297 ppb	18:57:32
2	B 249.677†	4229.1	1483.4	21.834 µg/L	21.834 ppb	18:57:30
2	Ba 233.527†	835.0	1121.0	-1.2428 µg/L	-1.2428 ppb	18:57:32
2	Be 313.107†	-15397.0	-17099.7	0.2214 µg/L	0.2214 ppb	18:57:30
2	Cd 226.502†	6036.4	7239.5	-2.1644 µg/L	-2.1644 ppb	18:57:32
2	Co 228.616†	696.8	1012.4	-11.010 µg/L	-11.010 ppb	18:57:32
2	Cr 267.716†	355.9	241.2	-0.9572 µg/L	-0.9572 ppb	18:57:32
2	Cu 324.752†	-16236.3	-22126.7	5.7984 µg/L	5.7984 ppb	18:57:30
2	Mn 257.610†	18248.7	21291.3	6.3374 µg/L	6.3374 ppb	18:57:30
2	Mo 202.031†	-933.0	-1080.6	-5.2559 µg/L	-5.2559 ppb	18:57:30
2	Ni 231.604†	134.2	234.9	2.7046 µg/L	2.7046 ppb	18:57:32
2	P 214.914†	1061.2	1269.9	76.619 µg/L	76.619 ppb	18:57:32
2	Pb 220.353†	-99.7	-204.1	-7.1629 µg/L	-7.1629 ppb	18:57:32

2	S 181.975 Axial†	67.9	-24.9	-18.790 µg/L	-18.790 ppb	18:57:32
2	Sb 206.836†	102.8	40.5	-4.5964 µg/L	-4.5964 ppb	18:57:32
2	Se 196.026†	-406.6	-495.0	-7.05 µg/L	-7.05 ppb	18:57:32
2	SiO2†	1830.8	384.5	38.395 µg/L	38.395 ppb	18:57:32
2	Si 251.611†	-1934.6	-3118.9	-45.598 µg/L	-45.598 ppb	18:57:32
2	Sn 189.927†	82.4	98.3	6.2185 µg/L	6.2185 ppb	18:57:32
2	Ti 334.940†	25364.2	28970.4	-5.8085 µg/L	-5.8085 ppb	18:57:30
2	Tl 190.801†	-211.8	-133.2	-15.794 µg/L	-15.794 ppb	18:57:32
2	U 409.014†	233675.5	275944.1	16055 µg/L	16055 ppb	18:57:30
2	V 292.402†	7224.5	8119.2	2.5727 µg/L	2.5727 ppb	18:57:32
2	Zn 213.857†	8699.2	9698.3	10.651 µg/L	10.651 ppb	18:57:32
3	Sc RADIAL	127845.5	127845.5	87.6 %		18:57:07
3	Al 396.153Radial†	2359012.1	2692767.9	499240 µg/L	499240 ppb	18:57:05
3	Ca 317.933Radial†	7510342.6	8572152.9	477500 µg/L	477500 ppb	18:57:05
3	Fe 238.204 Radial†	6434548.4	7344595.4	452680 µg/L	452680 ppb	18:57:05
3	K 766.490 Radial†	2440.5	1241.0	134.70 µg/L	134.70 ppb	18:57:07
3	Mg 279.077 IEC†	1121897.2	1280403.8	476670 µg/L	476670 ppb	18:57:05
3	Na 589.592 Radial†	3229732.0	3685301.0	503460 µg/L	503460 ppb	18:57:05
3	Sr 421.552†	4859.4	5682.0	8.0751 µg/L	8.0751 ppb	18:57:07
3	Sc 361.383	1472435.6	1472435.6	85.696 %		18:57:35
3	Y 371.029	865581.1	865581.1	84.308 %		18:57:35
3	Ag 328.068†	2006.5	-1749.9	-1.2878 µg/L	-1.2878 ppb	18:57:35
3	As 188.979†	-242.4	-262.5	22.088 µg/L	22.088 ppb	18:57:37
3	B 249.677†	4311.3	1525.1	22.443 µg/L	22.443 ppb	18:57:35
3	Ba 233.527†	597.3	832.8	-2.4315 µg/L	-2.4315 ppb	18:57:37
3	Be 313.107†	-15503.1	-17026.2	0.2432 µg/L	0.2432 ppb	18:57:35
3	Cd 226.502†	5998.3	7117.7	-3.1440 µg/L	-3.1440 ppb	18:57:37
3	Co 228.616†	825.0	1153.0	-9.3850 µg/L	-9.3850 ppb	18:57:37
3	Cr 267.716†	265.1	130.8	-1.7837 µg/L	-1.7837 ppb	18:57:37
3	Cu 324.752†	-16427.6	-22141.9	6.1120 µg/L	6.1120 ppb	18:57:35
3	Mn 257.610†	18616.4	21486.6	6.4820 µg/L	6.4820 ppb	18:57:35
3	Mo 202.031†	-951.0	-1089.6	-5.3968 µg/L	-5.3968 ppb	18:57:35
3	Ni 231.604†	238.5	354.9	4.0862 µg/L	4.0862 ppb	18:57:37
3	P 214.914†	1053.2	1246.9	70.775 µg/L	70.775 ppb	18:57:37
3	Pb 220.353†	-34.4	-126.5	-2.7794 µg/L	-2.7794 ppb	18:57:37
3	S 181.975 Axial†	188.2	114.6	84.800 µg/L	84.800 ppb	18:57:37
3	Sb 206.836†	165.1	111.8	3.8601 µg/L	3.8601 ppb	18:57:37
3	Se 196.026†	-442.3	-531.4	-19.5 µg/L	-19.5 ppb	18:57:37
3	SiO2†	1893.1	433.7	43.156 µg/L	43.156 ppb	18:57:37
3	Si 251.611†	-1908.7	-3063.9	-44.810 µg/L	-44.810 ppb	18:57:37
3	Sn 189.927†	139.3	163.7	10.296 µg/L	10.296 ppb	18:57:37
3	Ti 334.940†	26025.3	29416.9	-5.5292 µg/L	-5.5292 ppb	18:57:35
3	Tl 190.801†	-218.6	-138.4	-16.446 µg/L	-16.446 ppb	18:57:37
3	U 409.014†	236329.7	276048.2	16061 µg/L	16061 ppb	18:57:35
3	V 292.402†	7144.2	7933.0	1.4413 µg/L	1.4413 ppb	18:57:37
3	Zn 213.857†	8714.2	9604.4	9.9077 µg/L	9.9077 ppb	18:57:37

## Mean Data: LRI

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1460155.8	84.981 %	0.6349			0.75%
Sc RADIAL	127825.4	87.6 %	0.16			0.18%
Y 371.029	858237.5	83.593 %	0.6409			0.77%
Ag 328.068†	-1625.7	-0.8704 µg/L	0.56237	-0.8704 ppb	0.56237	64.61%
Al 396.153Radial†	2696210.8	499880 µg/L	3030.8	499880 ppb	3030.8	0.61%
QC value within limits for Al 396.153Radial Recovery = 99.98%						
As 188.979†	-287.9	14.680 µg/L	13.0115	14.680 ppb	13.0115	88.63%
B 249.677†	1576.2	23.202 µg/L	1.8679	23.202 ppb	1.8679	8.05%
Ba 233.527†	987.8	-1.8213 µg/L	0.59497	-1.8213 ppb	0.59497	32.67%
Be 313.107†	-17152.7	0.2058 µg/L	0.04725	0.2058 ppb	0.04725	22.96%
Ca 317.933Radial†	8593931.8	478720 µg/L	3973.4	478720 ppb	3973.4	0.83%
QC value within limits for Ca 317.933Radial Recovery = 95.74%						
Cd 226.502†	7246.5	-2.4604 µg/L	0.59380	-2.4604 ppb	0.59380	24.13%
Co 228.616†	1047.2	-10.750 µg/L	1.2554	-10.750 ppb	1.2554	11.68%
Cr 267.716†	193.3	-1.2647 µg/L	0.45201	-1.2647 ppb	0.45201	35.74%
Cu 324.752†	-22050.5	6.6655 µg/L	1.24035	6.6655 ppb	1.24035	18.61%
Fe 238.204 Radial†	7363154.9	453820 µg/L	3932.0	453820 ppb	3932.0	0.87%
QC value within limits for Fe 238.204 Radial Recovery = 90.76%						
K 766.490 Radial†	1152.7	101.69 µg/L	43.017	101.69 ppb	43.017	42.30%
Mg 279.077 IEC†	1284453.2	478180 µg/L	4754.0	478180 ppb	4754.0	0.99%

QC value within limits for Mg 279.077 IEC Recovery = 95.64%							
Mn 257.610†	21366.4	6.2705 µg/L	0.25177	6.2705 ppb	0.25177	4.02%	
Mo 202.031†	-1086.7	-5.2368 µg/L	0.17026	-5.2368 ppb	0.17026	3.25%	
Na 589.592 Radial†	3694276.5	504680 µg/L	4053.7	504680 ppb	4053.7	0.80%	
QC value within limits for Na 589.592 Radial Recovery = 100.94%							
Ni 231.604†	280.4	3.2287 µg/L	0.74869	3.2287 ppb	0.74869	23.19%	
P 214.914†	1217.9	63.889 µg/L	17.2380	63.889 ppb	17.2380	26.98%	
Pb 220.353†	-183.2	-5.9350 µg/L	2.75510	-5.9350 ppb	2.75510	46.42%	
S 181.975 Axial†	64.3	47.494 µg/L	57.5543	47.494 ppb	57.5543	121.18%	
Sb 206.836†	97.6	2.1374 µg/L	6.05903	2.1374 ppb	6.05903	283.48%	
Se 196.026†	-506.9	-10.3 µg/L	8.13	-10.3 ppb	8.13	79.29%	
SiO2†	455.6	45.333 µg/L	8.2442	45.333 ppb	8.2442	18.19%	
Si 251.611†	-3141.8	-45.939 µg/L	1.3330	-45.939 ppb	1.3330	2.90%	
Sn 189.927†	113.0	7.1383 µg/L	2.81321	7.1383 ppb	2.81321	39.41%	
Sr 421.552†	5872.1	8.4607 µg/L	0.35414	8.4607 ppb	0.35414	4.19%	
Ti 334.940†	29649.4	-5.3994 µg/L	0.48710	-5.3994 ppb	0.48710	9.02%	
Tl 190.801†	-114.1	-13.452 µg/L	4.6323	-13.452 ppb	4.6323	34.44%	
U 409.014†	275877.8	16051 µg/L	13.0	16051 ppb	13.0	0.08%	
QC value within limits for U 409.014 Recovery = 107.00%							
V 292.402†	8067.6	1.9735 µg/L	0.56868	1.9735 ppb	0.56868	28.82%	
Zn 213.857†	9642.6	10.006 µg/L	0.6012	10.006 ppb	0.6012	6.01%	
All analyte(s) passed QC.							

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 108

Date Collected: 3/31/2010 18:57:44

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	138428.5	138428.5	94.9 %		18:58:18
1	Al 396.153Radial†	2589.6	2793.1	65.979 µg/L	65.979 ppb	18:58:20
1	Ca 317.933Radial†	2182.0	1739.6	96.903 µg/L	96.903 ppb	18:58:20
1	Fe 238.204 Radial†	-202.3	-361.4	-22.274 µg/L	-22.274 ppb	18:58:20
1	K 766.490 Radial†	763320.3	803139.1	294040 µg/L	294040 ppb	18:58:18
1	Mg 279.077 IEC†	-318.7	-526.7	41.787 µg/L	41.787 ppb	18:58:20
1	Na 589.592 Radial†	4722.3	3687.4	242.24 µg/L	242.24 ppb	18:58:18
1	Sr 421.552†	4464241.5	4706289.3	9784.1 µg/L	9784.1 ppb	18:58:15
1	Sc 361.383	1644054.1	1644054.1	95.684 %		18:58:42
1	Y 371.029	958940.9	958940.9	93.401 %		18:58:42
1	Ag 328.068†	-28181.7	-33544.4	-7.2060 µg/L	-7.2060 ppb	18:58:44
1	As 188.979†	32117.0	33586.2	10409 µg/L	10409 ppb	18:58:44
1	B 249.677†	322787.1	333842.2	4891.3 µg/L	4891.3 ppb	18:58:42
1	Ba 233.527†	3263599.9	3410957.3	13754 µg/L	13754 ppb	18:58:42
1	Be 313.107†	10059777.2	10514640.1	2862.8 µg/L	2862.8 ppb	18:58:38
1	Cd 226.502†	1463937.1	1530093.7	9561.7 µg/L	9561.7 ppb	18:58:42
1	Co 228.616†	720309.4	752993.0	9307.6 µg/L	9307.6 ppb	18:58:42
1	Cr 267.716†	2891693.7	3021959.9	23671 µg/L	23671 ppb	18:58:42
1	Cu 324.752†	4894436.4	5112253.1	19872 µg/L	19872 ppb	18:58:42
1	Mn 257.610†	7191165.6	7515323.1	9298.7 µg/L	9298.7 ppb	18:58:42
1	Mo 202.031†	316742.4	331050.8	9732.5 µg/L	9732.5 ppb	18:58:44
1	Ni 231.604†	799875.1	836034.2	9626.3 µg/L	9626.3 ppb	18:58:42
1	P 214.914†	68547.5	71657.7	15093 µg/L	15093 ppb	18:58:44
1	Pb 220.353†	401154.4	419164.2	23428 µg/L	23428 ppb	18:58:42
1	S 181.975 Axial†	67316.5	70248.1	52247 µg/L	52247 ppb	18:58:44
1	Sb 206.836†	80773.2	84336.1	9841.1 µg/L	9841.1 ppb	18:58:44
1	Se 196.026†	26033.9	27193.0	9830 µg/L	9830 ppb	18:58:44
1	SiO2†	974638.1	1016828.8	98967 µg/L	98967 ppb	18:58:42
1	Si 251.611†	3010622.9	3145596.0	46180 µg/L	46180 ppb	18:58:42
1	Sn 189.927†	151635.6	158477.0	9912.7 µg/L	9912.7 ppb	18:58:44
1	Ti 334.940†	10132846.9	10588988.8	9885.3 µg/L	9885.3 ppb	18:58:38
1	Tl 190.801†	74051.0	77508.1	9673.9 µg/L	9673.9 ppb	18:58:44
1	U 409.014†	-10469.2	-10671.6	-21.061 µg/L	-21.061 ppb	18:58:44
1	V 292.402†	1944343.2	2031649.1	10104 µg/L	10104 ppb	18:58:42
1	Zn 213.857†	2422227.0	2530929.6	14143 µg/L	14143 ppb	18:58:42
2	Sc RADIAL	138489.8	138489.8	94.9 %		18:58:24
2	Al 396.153Radial†	2632.4	2837.1	80.052 µg/L	80.052 ppb	18:58:26
2	Ca 317.933Radial†	2111.9	1664.8	92.734 µg/L	92.734 ppb	18:58:26
2	Fe 238.204 Radial†	-168.1	-325.2	-20.046 µg/L	-20.046 ppb	18:58:26
2	K 766.490 Radial†	768501.7	808242.3	295910 µg/L	295910 ppb	18:58:24
2	Mg 279.077 IEC†	-343.1	-552.3	29.128 µg/L	29.128 ppb	18:58:26
2	Na 589.592 Radial†	4657.2	3616.6	230.89 µg/L	230.89 ppb	18:58:24
2	Sr 421.552†	4443237.9	4682072.2	9733.8 µg/L	9733.8 ppb	18:58:22
2	Sc 361.383	1654174.4	1654174.4	96.273 %		18:58:52
2	Y 371.029	964160.7	964160.7	93.910 %		18:58:52
2	Ag 328.068†	-27980.3	-33155.0	-5.4230 µg/L	-5.4230 ppb	18:58:54
2	As 188.979†	31657.2	32903.2	10204 µg/L	10204 ppb	18:58:54
2	B 249.677†	326358.6	335488.1	4915.4 µg/L	4915.4 ppb	18:58:52
2	Ba 233.527†	3296633.7	3424402.5	13809 µg/L	13809 ppb	18:58:52
2	Be 313.107†	10113068.4	10505672.2	2860.3 µg/L	2860.3 ppb	18:58:48
2	Cd 226.502†	1483425.3	1540976.0	9629.7 µg/L	9629.7 ppb	18:58:52
2	Co 228.616†	729085.8	757503.5	9363.3 µg/L	9363.3 ppb	18:58:52
2	Cr 267.716†	2922280.8	3035241.6	23775 µg/L	23775 ppb	18:58:52
2	Cu 324.752†	4934401.1	5122469.9	19912 µg/L	19912 ppb	18:58:52
2	Mn 257.610†	7264987.1	7546022.1	9336.7 µg/L	9336.7 ppb	18:58:52
2	Mo 202.031†	314514.5	326711.4	9605.0 µg/L	9605.0 ppb	18:58:54
2	Ni 231.604†	809217.8	840624.1	9679.2 µg/L	9679.2 ppb	18:58:52
2	P 214.914†	67979.1	70628.9	14873 µg/L	14873 ppb	18:58:54
2	Pb 220.353†	406432.6	422081.8	23591 µg/L	23591 ppb	18:58:52



2	S 181.975 Axial†	66600.5	69074.0	51374 µg/L	51374 ppb	18:58:54
2	Sb 206.836†	80074.2	83093.5	9689.8 µg/L	9689.8 ppb	18:58:54
2	Se 196.026†	25686.7	26665.9	9640 µg/L	9640 ppb	18:58:54
2	SiO2†	986400.6	1022814.9	99557 µg/L	99557 ppb	18:58:52
2	Si 251.611†	3046941.6	3164070.8	46455 µg/L	46455 ppb	18:58:52
2	Sn 189.927†	150469.1	156295.8	9776.7 µg/L	9776.7 ppb	18:58:54
2	Ti 334.940†	10189195.0	10582728.8	9879.4 µg/L	9879.4 ppb	18:58:48
2	Tl 190.801†	73611.8	76578.5	9559.6 µg/L	9559.6 ppb	18:58:54
2	U 409.014†	-10364.3	-10495.7	-9.0352 µg/L	-9.0352 ppb	18:58:54
2	V 292.402†	1961854.5	2037406.1	10131 µg/L	10131 ppb	18:58:52
2	Zn 213.857†	2448683.7	2542922.9	14210 µg/L	14210 ppb	18:58:52
3	Sc RADIAL	137437.4	137437.4	94.2 %		18:58:31
3	Al 396.153Radial†	2618.6	2843.6	77.986 µg/L	77.986 ppb	18:58:33
3	Ca 317.933Radial†	2227.5	1804.6	100.52 µg/L	100.52 ppb	18:58:33
3	Fe 238.204 Radial†	-164.9	-323.2	-19.923 µg/L	-19.923 ppb	18:58:33
3	K 766.490 Radial†	765491.4	811247.2	297010 µg/L	297010 ppb	18:58:31
3	Mg 279.077 IEC†	-295.0	-503.9	48.881 µg/L	48.881 ppb	18:58:33
3	Na 589.592 Radial†	4456.0	3440.6	205.87 µg/L	205.87 ppb	18:58:31
3	Sr 421.552†	4441067.4	4715621.3	9803.5 µg/L	9803.5 ppb	18:58:29
3	Sc 361.383	1660837.4	1660837.4	96.660 %		18:59:01
3	Y 371.029	967825.2	967825.2	94.267 %		18:59:01
3	Ag 328.068†	-28451.9	-33526.3	-6.5821 µg/L	-6.5821 ppb	18:59:04
3	As 188.979†	32300.2	33436.5	10365 µg/L	10365 ppb	18:59:04
3	B 249.677†	328722.2	336573.4	4931.3 µg/L	4931.3 ppb	18:59:01
3	Ba 233.527†	3317615.9	3432372.0	13841 µg/L	13841 ppb	18:59:01
3	Be 313.107†	10133998.6	10485182.6	2854.7 µg/L	2854.7 ppb	18:58:58
3	Cd 226.502†	1494854.9	1546618.8	9664.9 µg/L	9664.9 ppb	18:59:01
3	Co 228.616†	734092.5	759645.0	9389.8 µg/L	9389.8 ppb	18:59:01
3	Cr 267.716†	2940364.9	3041773.0	23826 µg/L	23826 ppb	18:59:01
3	Cu 324.752†	4964197.6	5132733.3	19952 µg/L	19952 ppb	18:59:01
3	Mn 257.610†	7309991.3	7562306.7	9356.8 µg/L	9356.8 ppb	18:59:01
3	Mo 202.031†	318101.3	329111.4	9675.5 µg/L	9675.5 ppb	18:59:04
3	Ni 231.604†	815203.0	843443.9	9711.6 µg/L	9711.6 ppb	18:59:01
3	P 214.914†	69129.8	71536.1	15067 µg/L	15067 ppb	18:59:04
3	Pb 220.353†	409679.7	423747.3	23684 µg/L	23684 ppb	18:59:01
3	S 181.975 Axial†	67967.3	70210.4	52219 µg/L	52219 ppb	18:59:04
3	Sb 206.836†	81066.4	83786.4	9772.6 µg/L	9772.6 ppb	18:59:04
3	Se 196.026†	26138.8	27026.6	9770 µg/L	9770 ppb	18:59:04
3	SiO2†	993772.6	1026331.1	99898 µg/L	99898 ppb	18:59:01
3	Si 251.611†	3070650.4	3175901.7	46628 µg/L	46628 ppb	18:59:01
3	Sn 189.927†	152708.7	157985.7	9882.0 µg/L	9882.0 ppb	18:59:04
3	Ti 334.940†	10211863.8	10563720.7	9861.6 µg/L	9861.6 ppb	18:58:58
3	Tl 190.801†	74486.4	77176.5	9633.0 µg/L	9633.0 ppb	18:59:04
3	U 409.014†	-10678.1	-10777.2	-24.287 µg/L	-24.287 ppb	18:59:04
3	V 292.402†	1973672.0	2041456.5	10152 µg/L	10152 ppb	18:59:01
3	Zn 213.857†	2465384.0	2549996.1	14250 µg/L	14250 ppb	18:59:01

## Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1653021.9	96.206 %	0.4918			0.51%
Sc RADIAL	138118.6	94.6 %	0.40			0.43%
Y 371.029	963642.3	93.859 %	0.4349			0.46%
Ag 328.068†	-33408.6	-6.4037 µg/L	0.90480	-6.4037 ppb	0.90480	14.13%
Al 396.153Radial†	2824.6	74.672 µg/L	7.5994	74.672 ppb	7.5994	10.18%
As 188.979†	33308.6	10326 µg/L	108.5	10326 ppb	108.5	1.05%
QC value within limits for As 188.979 Recovery = 103.26%						
B 249.677†	335301.2	4912.7 µg/L	20.14	4912.7 ppb	20.14	0.41%
QC value within limits for B 249.677 Recovery = 98.25%						
Ba 233.527†	3422577.3	13801 µg/L	43.6	13801 ppb	43.6	0.32%
QC value within limits for Ba 233.527 Recovery = 92.01%						
Be 313.107†	10501831.6	2859.3 µg/L	4.11	2859.3 ppb	4.11	0.14%
QC value within limits for Be 313.107 Recovery = 95.31%						
Ca 317.933Radial†	1736.3	96.720 µg/L	3.8970	96.720 ppb	3.8970	4.03%
Cd 226.502†	1539229.5	9618.8 µg/L	52.49	9618.8 ppb	52.49	0.55%
QC value within limits for Cd 226.502 Recovery = 96.19%						
Co 228.616†	756713.8	9353.6 µg/L	41.95	9353.6 ppb	41.95	0.45%
QC value within limits for Co 228.616 Recovery = 93.54%						
Cr 267.716†	3032991.5	23758 µg/L	79.1	23758 ppb	79.1	0.33%
QC value within limits for Cr 267.716 Recovery = 95.03%						

Cu 324.752†	5122485.4	19912 µg/L	39.8	19912 ppb	39.8	0.20%
QC value within limits for Cu 324.752 Recovery = 99.56%						
Fe 238.204 Radial†	-336.6	-20.748 µg/L	1.3234	-20.748 ppb	1.3234	6.38%
K 766.490 Radial†	807542.9	295650 µg/L	1500.7	295650 ppb	1500.7	0.51%
QC value within limits for K 766.490 Radial Recovery = 98.55%						
Mg 279.077 IEC†	-527.6	39.932 µg/L	10.0061	39.932 ppb	10.0061	25.06%
Mn 257.610†	7541217.3	9330.7 µg/L	29.52	9330.7 ppb	29.52	0.32%
QC value within limits for Mn 257.610 Recovery = 93.31%						
Mo 202.031†	328957.9	9671.0 µg/L	63.88	9671.0 ppb	63.88	0.66%
QC value within limits for Mo 202.031 Recovery = 96.71%						
Na 589.592 Radial†	3581.5	226.33 µg/L	18.607	226.33 ppb	18.607	8.22%
Ni 231.604†	840034.1	9672.4 µg/L	43.06	9672.4 ppb	43.06	0.45%
QC value within limits for Ni 231.604 Recovery = 96.72%						
P 214.914†	71274.3	15011 µg/L	120.3	15011 ppb	120.3	0.80%
QC value within limits for P 214.914 Recovery = 100.07%						
Pb 220.353†	421664.4	23568 µg/L	129.3	23568 ppb	129.3	0.55%
QC value within limits for Pb 220.353 Recovery = 94.27%						
S 181.975 Axial†	69844.2	51947 µg/L	496.0	51947 ppb	496.0	0.95%
QC value within limits for S 181.975 Axial Recovery = 103.89%						
Sb 206.836†	83738.7	9767.8 µg/L	75.75	9767.8 ppb	75.75	0.78%
QC value within limits for Sb 206.836 Recovery = 97.68%						
Se 196.026†	26961.8	9750 µg/L	97.4	9750 ppb	97.4	1.00%
QC value within limits for Se 196.026 Recovery = 97.47%						
SiO2†	1021991.6	99474 µg/L	471.0	99474 ppb	471.0	0.47%
QC value within limits for SiO2 Recovery = 92.97%						
Si 251.611†	3161856.2	46421 µg/L	225.8	46421 ppb	225.8	0.49%
QC value within limits for Si 251.611 Recovery = 92.84%						
Sn 189.927†	157586.2	9857.1 µg/L	71.32	9857.1 ppb	71.32	0.72%
QC value within limits for Sn 189.927 Recovery = 98.57%						
Sr 421.552†	4701327.6	9773.8 µg/L	36.00	9773.8 ppb	36.00	0.37%
QC value within limits for Sr 421.552 Recovery = 97.74%						
Ti 334.940†	10578479.4	9875.4 µg/L	12.32	9875.4 ppb	12.32	0.12%
QC value within limits for Ti 334.940 Recovery = 98.75%						
Tl 190.801†	77087.7	9622.1 µg/L	57.90	9622.1 ppb	57.90	0.60%
QC value within limits for Tl 190.801 Recovery = 96.22%						
U 409.014†	-10648.1	-18.128 µg/L	8.0380	-18.128 ppb	8.0380	44.34%
V 292.402†	2036837.3	10129 µg/L	24.0	10129 ppb	24.0	0.24%
QC value within limits for V 292.402 Recovery = 101.29%						
Zn 213.857†	2541282.9	14201 µg/L	53.8	14201 ppb	53.8	0.38%
QC value within limits for Zn 213.857 Recovery = 94.68%						
All analyte(s) passed QC.						

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

Autosampler Location: 7  
 Date Collected: 3/31/2010 18:59:11  
 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	142139.5	142139.5	97.4 %		18:59:45
1	Al 396.153Radial†	26433.8	27201.9	5020.1 µg/L	5020.1 ppb	18:59:45
1	Ca 317.933Radial†	88689.7	90494.1	5040.9 µg/L	5040.9 ppb	18:59:45
1	Fe 238.204 Radial†	79307.5	81274.2	5009.2 µg/L	5009.2 ppb	18:59:45
1	K 766.490 Radial†	16771.4	15673.9	5734.3 µg/L	5734.3 ppb	18:59:45
1	Mg 279.077 IEC†	13660.1	13833.7	5162.1 µg/L	5162.1 ppb	18:59:45
1	Na 589.592 Radial†	73293.1	73956.7	10098 µg/L	10098 ppb	18:59:45
1	Sr 421.552†	230485.0	236766.3	492.18 µg/L	492.18 ppb	18:59:42
1	Sc 361.383	1685039.5	1685039.5	98.069 %		19:00:11
1	Y 371.029	998501.4	998501.4	97.255 %		19:00:11
1	Ag 328.068†	132676.3	131197.3	491.97 µg/L	491.97 ppb	19:00:11
1	As 188.979†	1601.0	1652.9	507.06 µg/L	507.06 ppb	19:00:31
1	B 249.677†	36255.7	33463.6	491.81 µg/L	491.81 ppb	19:00:11
1	Ba 233.527†	119950.7	122448.3	493.83 µg/L	493.83 ppb	19:00:11
1	Be 313.107†	1777442.6	1813504.8	493.92 µg/L	493.92 ppb	19:00:11
1	Cd 226.502†	77121.2	78757.9	491.64 µg/L	491.64 ppb	19:00:11
1	Co 228.616†	39140.7	40101.7	495.05 µg/L	495.05 ppb	19:00:11
1	Cr 267.716†	61794.1	62832.3	491.97 µg/L	491.97 ppb	19:00:11
1	Cu 324.752†	126997.2	126525.5	493.24 µg/L	493.24 ppb	19:00:11
1	Mn 257.610†	392842.9	400340.6	495.12 µg/L	495.12 ppb	19:00:11
1	Mo 202.031†	16539.5	16885.3	496.69 µg/L	496.69 ppb	19:00:31
1	Ni 231.604†	41890.8	42792.1	492.72 µg/L	492.72 ppb	19:00:11
1	P 214.914†	11336.8	11578.0	2467.8 µg/L	2467.8 ppb	19:00:31
1	Pb 220.353†	8936.3	9025.8	505.42 µg/L	505.42 ppb	19:00:31
1	S 181.975 Axial†	1440.2	1363.5	1016.7 µg/L	1016.7 ppb	19:00:31
1	Sb 206.836†	4150.3	4151.2	494.66 µg/L	494.66 ppb	19:00:31
1	Se 196.026†	1355.8	1367.2	496 µg/L	496 ppb	19:00:31
1	SiO2†	55729.4	55051.3	5359.5 µg/L	5359.5 ppb	19:00:11
1	Si 251.611†	167770.7	170237.6	2499.9 µg/L	2499.9 ppb	19:00:11
1	Sn 189.927†	7832.4	7987.8	499.62 µg/L	499.62 ppb	19:00:31
1	Ti 334.940†	519447.4	528722.7	493.33 µg/L	493.33 ppb	19:00:11
1	Tl 190.801†	3833.0	4025.2	501.97 µg/L	501.97 ppb	19:00:31
1	U 409.014†	7396.5	7812.0	486.67 µg/L	486.67 ppb	19:00:11
1	V 292.402†	98795.4	100336.9	496.05 µg/L	496.05 ppb	19:00:11
1	Zn 213.857†	87637.0	88798.1	494.94 µg/L	494.94 ppb	19:00:11
2	Sc RADIAL	141405.1	141405.1	96.9 %		18:59:49
2	Al 396.153Radial†	26316.7	27222.0	5023.9 µg/L	5023.9 ppb	18:59:49
2	Ca 317.933Radial†	88132.2	90391.6	5035.2 µg/L	5035.2 ppb	18:59:49
2	Fe 238.204 Radial†	78428.2	80789.6	4979.4 µg/L	4979.4 ppb	18:59:49
2	K 766.490 Radial†	16577.4	15563.0	5693.7 µg/L	5693.7 ppb	18:59:49
2	Mg 279.077 IEC†	13417.4	13656.1	5095.9 µg/L	5095.9 ppb	18:59:49
2	Na 589.592 Radial†	72730.8	73767.2	10072 µg/L	10072 ppb	18:59:49
2	Sr 421.552†	231214.8	238748.4	496.30 µg/L	496.30 ppb	18:59:47
2	Sc 361.383	1693366.2	1693366.2	98.554 %		19:00:35
2	Y 371.029	1002117.3	1002117.3	97.607 %		19:00:35
2	Ag 328.068†	134028.3	131903.9	494.57 µg/L	494.57 ppb	19:00:35
2	As 188.979†	1592.6	1636.4	502.08 µg/L	502.08 ppb	19:00:55
2	B 249.677†	36515.2	33545.2	493.02 µg/L	493.02 ppb	19:00:35
2	Ba 233.527†	120680.2	122587.1	494.39 µg/L	494.39 ppb	19:00:35
2	Be 313.107†	1789722.9	1817053.1	494.89 µg/L	494.89 ppb	19:00:35
2	Cd 226.502†	77769.6	79029.1	493.33 µg/L	493.33 ppb	19:00:35
2	Co 228.616†	39338.4	40106.1	495.11 µg/L	495.11 ppb	19:00:35
2	Cr 267.716†	62316.9	63052.8	493.70 µg/L	493.70 ppb	19:00:35
2	Cu 324.752†	127673.8	126575.3	493.42 µg/L	493.42 ppb	19:00:35
2	Mn 257.610†	395604.2	401172.7	496.16 µg/L	496.16 ppb	19:00:35
2	Mo 202.031†	16605.0	16868.7	496.20 µg/L	496.20 ppb	19:00:55
2	Ni 231.604†	42250.6	42947.2	494.51 µg/L	494.51 ppb	19:00:35
2	P 214.914†	11392.0	11577.2	2467.6 µg/L	2467.6 ppb	19:00:55
2	Pb 220.353†	8993.4	9039.0	506.15 µg/L	506.15 ppb	19:00:55

2	S 181.975 Axial†	1441.0	1357.1	1011.9 µg/L	1011.9 ppb	19:00:55
2	Sb 206.836†	4173.3	4153.7	494.93 µg/L	494.93 ppb	19:00:55
2	Se 196.026†	1369.6	1374.4	499 µg/L	499 ppb	19:00:55
2	SiO2†	55740.1	54782.8	5333.3 µg/L	5333.3 ppb	19:00:35
2	Si 251.611†	168764.7	170404.9	2502.4 µg/L	2502.4 ppb	19:00:35
2	Sn 189.927†	7855.7	7972.1	498.64 µg/L	498.64 ppb	19:00:55
2	Ti 334.940†	522510.2	529225.9	493.80 µg/L	493.80 ppb	19:00:35
2	Tl 190.801†	3874.1	4047.6	504.73 µg/L	504.73 ppb	19:00:55
2	U 409.014†	7341.8	7719.4	481.23 µg/L	481.23 ppb	19:00:35
2	V 292.402†	99158.5	100210.0	495.43 µg/L	495.43 ppb	19:00:35
2	Zn 213.857†	88086.4	88814.8	495.03 µg/L	495.03 ppb	19:00:35
3	Sc RADIAL	143105.8	143105.8	98.1 %		18:59:53
3	Al 396.153Radial†	26546.6	27133.7	5007.7 µg/L	5007.7 ppb	18:59:53
3	Ca 317.933Radial†	89145.0	90343.6	5032.5 µg/L	5032.5 ppb	18:59:53
3	Fe 238.204 Radial†	79321.5	80738.7	4976.2 µg/L	4976.2 ppb	18:59:53
3	K 766.490 Radial†	16684.6	15469.1	5659.4 µg/L	5659.4 ppb	18:59:53
3	Mg 279.077 IEC†	13656.7	13735.5	5125.4 µg/L	5125.4 ppb	18:59:53
3	Na 589.592 Radial†	73452.5	73611.2	10051 µg/L	10051 ppb	18:59:53
3	Sr 421.552†	233202.1	237939.3	494.62 µg/L	494.62 ppb	18:59:51
3	Sc 361.383	1698557.6	1698557.6	98.856 %		19:00:58
3	Y 371.029	1005300.2	1005300.2	97.917 %		19:00:58
3	Ag 328.068†	134027.1	131487.0	493.03 µg/L	493.03 ppb	19:00:58
3	As 188.979†	1600.3	1639.2	502.90 µg/L	502.90 ppb	19:01:18
3	B 249.677†	36626.1	33544.1	493.00 µg/L	493.00 ppb	19:00:58
3	Ba 233.527†	120865.6	122400.4	493.64 µg/L	493.64 ppb	19:00:58
3	Be 313.107†	1794818.7	1816657.7	494.78 µg/L	494.78 ppb	19:00:58
3	Cd 226.502†	77952.7	78973.1	492.98 µg/L	492.98 ppb	19:00:58
3	Co 228.616†	39410.3	40056.7	494.50 µg/L	494.50 ppb	19:00:58
3	Cr 267.716†	62267.5	62809.6	491.79 µg/L	491.79 ppb	19:00:58
3	Cu 324.752†	127710.6	126216.6	492.03 µg/L	492.03 ppb	19:00:58
3	Mn 257.610†	396581.9	400934.9	495.86 µg/L	495.86 ppb	19:00:58
3	Mo 202.031†	16557.8	16769.5	493.29 µg/L	493.29 ppb	19:01:18
3	Ni 231.604†	42318.2	42884.5	493.78 µg/L	493.78 ppb	19:00:58
3	P 214.914†	11368.7	11518.2	2455.0 µg/L	2455.0 ppb	19:01:18
3	Pb 220.353†	8920.7	8937.6	500.48 µg/L	500.48 ppb	19:01:18
3	S 181.975 Axial†	1449.3	1361.0	1014.8 µg/L	1014.8 ppb	19:01:18
3	Sb 206.836†	4163.9	4131.2	492.23 µg/L	492.23 ppb	19:01:18
3	Se 196.026†	1367.7	1368.2	497 µg/L	497 ppb	19:01:18
3	SiO2†	55966.4	54838.9	5338.9 µg/L	5338.9 ppb	19:00:58
3	Si 251.611†	169027.1	170146.9	2498.6 µg/L	2498.6 ppb	19:00:58
3	Sn 189.927†	7816.0	7907.6	494.62 µg/L	494.62 ppb	19:01:18
3	Ti 334.940†	523522.3	528629.3	493.24 µg/L	493.24 ppb	19:00:58
3	Tl 190.801†	3828.1	3989.1	497.54 µg/L	497.54 ppb	19:01:18
3	U 409.014†	7431.2	7787.1	485.18 µg/L	485.18 ppb	19:00:58
3	V 292.402†	99434.0	100181.1	495.25 µg/L	495.25 ppb	19:00:58
3	Zn 213.857†	87848.2	88300.5	492.15 µg/L	492.15 ppb	19:00:58

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1692321.1	98.493 %	0.3969			0.40%
Sc RADIAL	142216.8	97.5 %	0.58			0.60%
Y 371.029	1001973.0	97.593 %	0.3313			0.34%
Ag 328.068†	131529.4	493.19 µg/L	1.309	493.19 ppb	1.309	0.27%
QC value within limits for Ag 328.068 Recovery = 98.64%						
Al 396.153Radial†	27185.9	5017.2 µg/L	8.50	5017.2 ppb	8.50	0.17%
QC value within limits for Al 396.153Radial Recovery = 100.34%						
As 188.979†	1642.8	504.02 µg/L	2.669	504.02 ppb	2.669	0.53%
QC value within limits for As 188.979 Recovery = 100.80%						
B 249.677†	33517.6	492.61 µg/L	0.690	492.61 ppb	0.690	0.14%
QC value within limits for B 249.677 Recovery = 98.52%						
Ba 233.527†	122478.6	493.95 µg/L	0.391	493.95 ppb	0.391	0.08%
QC value within limits for Ba 233.527 Recovery = 98.79%						
Be 313.107†	1815738.5	494.53 µg/L	0.529	494.53 ppb	0.529	0.11%
QC value within limits for Be 313.107 Recovery = 98.91%						
Ca 317.933Radial†	90409.8	5036.2 µg/L	4.28	5036.2 ppb	4.28	0.09%
QC value within limits for Ca 317.933Radial Recovery = 100.72%						
Cd 226.502†	78920.1	492.65 µg/L	0.896	492.65 ppb	0.896	0.18%
QC value within limits for Cd 226.502 Recovery = 98.53%						
Co 228.616†	40088.2	494.89 µg/L	0.337	494.89 ppb	0.337	0.07%

Cr	267.716†	62898.2	492.49 µg/L	1.054	492.49 ppb	1.054	0.21%
Cu	324.752†	126439.1	492.90 µg/L	0.756	492.90 ppb	0.756	0.15%
Fe	238.204 Radial†	80934.2	4988.3 µg/L	18.22	4988.3 ppb	18.22	0.37%
K	766.490 Radial†	15568.7	5695.8 µg/L	37.52	5695.8 ppb	37.52	0.66%
Mg	279.077 IEC†	13741.8	5127.8 µg/L	33.15	5127.8 ppb	33.15	0.65%
Mn	257.610†	400816.1	495.71 µg/L	0.532	495.71 ppb	0.532	0.11%
Mo	202.031†	16841.2	495.39 µg/L	1.841	495.39 ppb	1.841	0.37%
Na	589.592 Radial†	73778.4	10074 µg/L	23.6	10074 ppb	23.6	0.23%
Ni	231.604†	42874.6	493.67 µg/L	0.898	493.67 ppb	0.898	0.18%
P	214.914†	11557.8	2463.5 µg/L	7.33	2463.5 ppb	7.33	0.30%
Pb	220.353†	9000.8	504.02 µg/L	3.083	504.02 ppb	3.083	0.61%
S	181.975 Axial†	1360.5	1014.5 µg/L	2.43	1014.5 ppb	2.43	0.24%
Sb	206.836†	4145.4	493.94 µg/L	1.484	493.94 ppb	1.484	0.30%
Se	196.026†	1370.0	497 µg/L	1.4	497 ppb	1.4	0.28%
SiO2†		54891.0	5343.9 µg/L	13.80	5343.9 ppb	13.80	0.26%
Si	251.611†	170263.1	2500.3 µg/L	1.90	2500.3 ppb	1.90	0.08%
Sn	189.927†	7955.8	497.63 µg/L	2.649	497.63 ppb	2.649	0.53%
Sr	421.552†	237818.0	494.37 µg/L	2.072	494.37 ppb	2.072	0.42%
Ti	334.940†	528859.3	493.46 µg/L	0.302	493.46 ppb	0.302	0.06%
Tl	190.801†	4020.6	501.41 µg/L	3.629	501.41 ppb	3.629	0.72%
U	409.014†	7772.9	484.36 µg/L	2.811	484.36 ppb	2.811	0.58%
V	292.402†	100242.7	495.58 µg/L	0.417	495.58 ppb	0.417	0.08%
Zn	213.857†	88637.8	494.04 µg/L	1.641	494.04 ppb	1.641	0.33%

QC value within limits for Co 228.616 Recovery = 98.98%

QC value within limits for Cr 267.716 Recovery = 98.50%

QC value within limits for Cu 324.752 Recovery = 98.58%

QC value within limits for Fe 238.204 Radial Recovery = 99.77%

QC value greater than the upper limit for K 766.490 Radial Recovery = 113.92%

QC value within limits for Mg 279.077 IEC Recovery = 102.56%

QC value within limits for Mn 257.610 Recovery = 99.14%

QC value within limits for Mo 202.031 Recovery = 99.08%

QC value within limits for Na 589.592 Radial Recovery = 100.74%

QC value within limits for Ni 231.604 Recovery = 98.73%

QC value within limits for P 214.914 Recovery = 98.54%

QC value within limits for Pb 220.353 Recovery = 100.80%

QC value within limits for S 181.975 Axial Recovery = 101.45%

QC value within limits for Sb 206.836 Recovery = 98.79%

QC value within limits for Se 196.026 Recovery = 99.49%

QC value within limits for SiO2 Recovery = 99.93%

QC value within limits for Si 251.611 Recovery = 100.01%

QC value within limits for Sn 189.927 Recovery = 99.53%

QC value within limits for Sr 421.552 Recovery = 98.87%

QC value within limits for Ti 334.940 Recovery = 98.69%

QC value within limits for Tl 190.801 Recovery = 100.28%

QC value within limits for U 409.014 Recovery = 96.87%

QC value within limits for V 292.402 Recovery = 99.12%

QC value within limits for Zn 213.857 Recovery = 98.81%

QC Failed. Continue with analysis.

Sequence No.: 14  
 Sample ID: CCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 8  
 Date Collected: 3/31/2010 19:01:26  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142576.4	142576.4	97.7 %		19:01:55
1	Al 396.153Radial†	57.6	122.1	22.616 µg/L	22.616 ppb	19:02:15
1	Ca 317.933Radial†	950.3	412.1	22.954 µg/L	22.954 ppb	19:02:15
1	Fe 238.204 Radial†	408.4	269.9	16.636 µg/L	16.636 ppb	19:02:15
1	K 766.490 Radial†	2351.3	861.8	315.49 µg/L	315.49 ppb	19:01:55
1	Mg 279.077 IEC†	256.3	71.6	26.675 µg/L	26.675 ppb	19:02:15
1	Na 589.592 Radial†	2324.7	1088.6	148.44 µg/L	148.44 ppb	19:01:55
1	Sr 421.552†	-47.4	86.8	0.1802 µg/L	0.1802 ppb	19:01:55
1	Sc 361.383	1712993.6	1712993.6	99.696 %		19:03:03
1	Y 371.029	1024574.5	1024574.5	99.794 %		19:03:03
1	Ag 328.068†	3862.6	-217.0	-0.8055 µg/L	-0.8055 ppb	19:03:05
1	As 188.979†	-11.7	8.6	2.6096 µg/L	2.6096 ppb	19:03:25
1	B 249.677†	3681.1	186.4	2.7486 µg/L	2.7486 ppb	19:03:05
1	Ba 233.527†	-102.8	32.7	0.1316 µg/L	0.1316 ppb	19:03:25
1	Be 313.107†	-845.8	216.4	0.0592 µg/L	0.0592 ppb	19:03:05
1	Cd 226.502†	-69.1	48.9	0.3038 µg/L	0.3038 ppb	19:03:25
1	Co 228.616†	-171.2	18.6	0.2289 µg/L	0.2289 ppb	19:03:25
1	Cr 267.716†	235.5	57.6	0.4508 µg/L	0.4508 ppb	19:03:25
1	Cu 324.752†	3139.9	177.3	0.6930 µg/L	0.6930 ppb	19:03:05
1	Mn 257.610†	387.8	151.7	0.1866 µg/L	0.1866 ppb	19:03:25
1	Mo 202.031†	-0.9	19.2	0.5643 µg/L	0.5643 ppb	19:03:25
1	Ni 231.604†	-84.9	-8.7	-0.0996 µg/L	-0.0996 ppb	19:03:25
1	P 214.914†	-24.3	-6.5	-1.3891 µg/L	-1.3891 ppb	19:03:25
1	Pb 220.353†	141.3	55.4	3.0911 µg/L	3.0911 ppb	19:03:25
1	S 181.975 Axial†	113.5	8.8	6.5060 µg/L	6.5060 ppb	19:03:25
1	Sb 206.836†	76.0	-4.6	-0.5451 µg/L	-0.5451 ppb	19:03:25
1	Se 196.026†	20.7	5.5	2.01 µg/L	2.01 ppb	19:03:25
1	SiO2†	1808.7	38.9	3.7615 µg/L	3.7615 ppb	19:03:25
1	Si 251.611†	1158.0	325.0	4.7734 µg/L	4.7734 ppb	19:03:05
1	Sn 189.927†	23.2	24.4	1.5199 µg/L	1.5199 ppb	19:03:25
1	Ti 334.940†	1109.4	160.3	0.1476 µg/L	0.1476 ppb	19:03:05
1	Tl 190.801†	-105.0	11.4	1.4002 µg/L	1.4002 ppb	19:03:25
1	U 409.014†	-251.8	17.3	0.9993 µg/L	0.9993 ppb	19:03:05
1	V 292.402†	359.4	-43.3	-0.2046 µg/L	-0.2046 ppb	19:03:05
1	Zn 213.857†	837.7	275.9	1.5483 µg/L	1.5483 ppb	19:03:25
2	Sc RADIAL	143802.6	143802.6	98.5 %		19:02:17
2	Al 396.153Radial†	-23.6	39.2	7.2646 µg/L	7.2646 ppb	19:02:37
2	Ca 317.933Radial†	724.5	174.6	9.7279 µg/L	9.7279 ppb	19:02:37
2	Fe 238.204 Radial†	241.4	96.9	5.9704 µg/L	5.9704 ppb	19:02:37
2	K 766.490 Radial†	2344.6	834.5	305.50 µg/L	305.50 ppb	19:02:17
2	Mg 279.077 IEC†	184.0	-4.0	-1.5026 µg/L	-1.5026 ppb	19:02:37
2	Na 589.592 Radial†	2222.6	964.7	131.52 µg/L	131.52 ppb	19:02:17
2	Sr 421.552†	-22.7	112.3	0.2333 µg/L	0.2333 ppb	19:02:17
2	Sc 361.383	1715539.4	1715539.4	99.844 %		19:03:27
2	Y 371.029	1025697.2	1025697.2	99.903 %		19:03:27
2	Ag 328.068†	4157.7	72.8	0.2757 µg/L	0.2757 ppb	19:03:30
2	As 188.979†	-16.7	3.7	1.1138 µg/L	1.1138 ppb	19:03:50
2	B 249.677†	3652.6	152.4	2.2465 µg/L	2.2465 ppb	19:03:30
2	Ba 233.527†	-103.8	31.9	0.1289 µg/L	0.1289 ppb	19:03:50
2	Be 313.107†	-800.4	263.0	0.0711 µg/L	0.0711 ppb	19:03:30
2	Cd 226.502†	-101.0	17.0	0.1059 µg/L	0.1059 ppb	19:03:50
2	Co 228.616†	-175.3	14.7	0.1813 µg/L	0.1813 ppb	19:03:50
2	Cr 267.716†	251.6	73.5	0.5772 µg/L	0.5772 ppb	19:03:50
2	Cu 324.752†	3073.4	105.9	0.4112 µg/L	0.4112 ppb	19:03:30
2	Mn 257.610†	351.3	114.6	0.1418 µg/L	0.1418 ppb	19:03:50
2	Mo 202.031†	-12.8	7.2	0.2126 µg/L	0.2126 ppb	19:03:50
2	Ni 231.604†	-67.1	9.3	0.1072 µg/L	0.1072 ppb	19:03:50
2	P 214.914†	-27.6	-9.7	-2.0622 µg/L	-2.0622 ppb	19:03:50
2	Pb 220.353†	95.6	9.4	0.5244 µg/L	0.5244 ppb	19:03:50

2	S 181.975 Axial†	105.7	0.8	0.6240 µg/L	0.6240 ppb	19:03:50
2	Sb 206.836†	85.0	4.3	0.5093 µg/L	0.5093 ppb	19:03:50
2	Se 196.026†	19.1	3.9	1.40 µg/L	1.40 ppb	19:03:50
2	SiO2†	1782.4	9.8	0.9335 µg/L	0.9335 ppb	19:03:50
2	Si 251.611†	944.9	109.8	1.6073 µg/L	1.6073 ppb	19:03:30
2	Sn 189.927†	21.6	22.8	1.4197 µg/L	1.4197 ppb	19:03:50
2	Ti 334.940†	960.9	9.8	0.0100 µg/L	0.0100 ppb	19:03:30
2	Tl 190.801†	-107.7	8.8	1.0828 µg/L	1.0828 ppb	19:03:50
2	U 409.014†	-298.4	-28.9	-1.6511 µg/L	-1.6511 ppb	19:03:30
2	V 292.402†	549.1	146.2	0.7161 µg/L	0.7161 ppb	19:03:30
2	Zn 213.857†	814.7	251.5	1.4114 µg/L	1.4114 ppb	19:03:50
3	Sc RADIAL	143637.2	143637.2	98.4 %		19:02:39
3	Al 396.153Radial†	-43.2	19.4	3.5840 µg/L	3.5840 ppb	19:03:00
3	Ca 317.933Radial†	715.6	166.4	9.2706 µg/L	9.2706 ppb	19:03:00
3	Fe 238.204 Radial†	242.5	98.3	6.0580 µg/L	6.0580 ppb	19:03:00
3	K 766.490 Radial†	2256.9	748.2	273.88 µg/L	273.88 ppb	19:02:39
3	Mg 279.077 IEC†	205.1	17.7	6.5824 µg/L	6.5824 ppb	19:03:00
3	Na 589.592 Radial†	2284.1	1029.7	140.43 µg/L	140.43 ppb	19:02:39
3	Sr 421.552†	11.7	147.2	0.3060 µg/L	0.3060 ppb	19:02:39
3	Sc 361.383	1722456.3	1722456.3	100.25 %		19:03:52
3	Y 371.029	1029533.6	1029533.6	100.28 %		19:03:52
3	Ag 328.068†	4007.1	-94.2	-0.3350 µg/L	-0.3350 ppb	19:03:54
3	As 188.979†	-18.8	1.6	0.4750 µg/L	0.4750 ppb	19:04:14
3	B 249.677†	3639.8	125.0	1.8421 µg/L	1.8421 ppb	19:03:54
3	Ba 233.527†	-117.1	19.1	0.0776 µg/L	0.0776 ppb	19:04:14
3	Be 313.107†	-721.4	345.0	0.0939 µg/L	0.0939 ppb	19:03:54
3	Cd 226.502†	-93.0	25.4	0.1581 µg/L	0.1581 ppb	19:04:14
3	Co 228.616†	-173.2	17.6	0.2167 µg/L	0.2167 ppb	19:04:14
3	Cr 267.716†	211.6	32.5	0.2552 µg/L	0.2552 ppb	19:04:14
3	Cu 324.752†	3092.5	112.7	0.4392 µg/L	0.4392 ppb	19:03:54
3	Mn 257.610†	342.1	104.0	0.1284 µg/L	0.1284 ppb	19:04:14
3	Mo 202.031†	-15.6	4.5	0.1336 µg/L	0.1336 ppb	19:04:14
3	Ni 231.604†	-90.2	-13.4	-0.1547 µg/L	-0.1547 ppb	19:04:14
3	P 214.914†	-22.3	-4.2	-0.9047 µg/L	-0.9047 ppb	19:04:14
3	Pb 220.353†	117.3	30.6	1.7079 µg/L	1.7079 ppb	19:04:14
3	S 181.975 Axial†	114.1	8.7	6.4890 µg/L	6.4890 ppb	19:04:14
3	Sb 206.836†	80.1	-1.0	-0.1107 µg/L	-0.1107 ppb	19:04:14
3	Se 196.026†	9.2	-6.1	-2.20 µg/L	-2.20 ppb	19:04:14
3	SiO2†	1811.5	31.7	3.0742 µg/L	3.0742 ppb	19:04:14
3	Si 251.611†	907.7	68.9	1.0043 µg/L	1.0043 ppb	19:03:54
3	Sn 189.927†	22.3	23.4	1.4577 µg/L	1.4577 ppb	19:04:14
3	Ti 334.940†	846.3	-108.3	-0.1015 µg/L	-0.1015 ppb	19:03:54
3	Tl 190.801†	-114.4	2.6	0.3215 µg/L	0.3215 ppb	19:04:14
3	U 409.014†	-270.6	-0.0	0.0667 µg/L	0.0667 ppb	19:03:54
3	V 292.402†	646.7	241.3	1.1790 µg/L	1.1790 ppb	19:03:54
3	Zn 213.857†	803.7	237.3	1.3332 µg/L	1.3332 ppb	19:04:14

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1716996.5	99.929 %		0.2850			0.29%
Sc RADIAL	143338.8	98.2 %		0.46			0.46%
Y 371.029	1026601.8	99.992 %		0.2533			0.25%
Ag 328.068†	-79.5	-0.2883 µg/L		0.54213	-0.2883 ppb	0.54213	188.07%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	60.2	11.155 µg/L		10.0946	11.155 ppb	10.0946	90.50%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	4.6	1.3995 µg/L		1.09560	1.3995 ppb	1.09560	78.29%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	154.6	2.2791 µg/L		0.45415	2.2791 ppb	0.45415	19.93%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	27.9	0.1127 µg/L		0.03047	0.1127 ppb	0.03047	27.04%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	274.8	0.0748 µg/L		0.01765	0.0748 ppb	0.01765	23.61%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	251.0	13.984 µg/L		7.7715	13.984 ppb	7.7715	55.57%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	30.5	0.1893 µg/L		0.10254	0.1893 ppb	0.10254	54.18%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	17.0	0.2090 µg/L		0.02473	0.2090 ppb	0.02473	11.83%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	54.5	0.4277 µg/L	0.16226	0.4277 ppb	0.16226	37.93%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	132.0	0.5144 µg/L	0.15523	0.5144 ppb	0.15523	30.17%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	155.0	9.5549 µg/L	6.13280	9.5549 ppb	6.13280	64.18%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	814.8	298.29 µg/L	21.721	298.29 ppb	21.721	7.28%	
QC value greater than the upper limit for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	28.4	10.585 µg/L	14.5091	10.585 ppb	14.5091	137.07%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	123.4	0.1523 µg/L	0.03051	0.1523 ppb	0.03051	20.04%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	10.3	0.3035 µg/L	0.22930	0.3035 ppb	0.22930	75.54%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	1027.7	140.13 µg/L	8.461	140.13 ppb	8.461	6.04%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-4.3	-0.0490 µg/L	0.13810	-0.0490 ppb	0.13810	281.55%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-6.8	-1.4520 µg/L	0.58130	-1.4520 ppb	0.58130	40.03%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	31.8	1.7745 µg/L	1.28462	1.7745 ppb	1.28462	72.39%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	6.1	4.5397 µg/L	3.39110	4.5397 ppb	3.39110	74.70%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-0.4	-0.0489 µg/L	0.52991	-0.0489 ppb	0.52991	>999.9%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	1.1	0.402 µg/L	2.2740	0.402 ppb	2.2740	564.97%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	26.8	2.5897 µg/L	1.47490	2.5897 ppb	1.47490	56.95%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	167.9	2.4617 µg/L	2.02458	2.4617 ppb	2.02458	82.24%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	23.5	1.4657 µg/L	0.05055	1.4657 ppb	0.05055	3.45%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	115.4	0.2398 µg/L	0.06313	0.2398 ppb	0.06313	26.32%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	20.6	0.0187 µg/L	0.12478	0.0187 ppb	0.12478	667.52%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	7.6	0.9348 µg/L	0.55437	0.9348 ppb	0.55437	59.30%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-3.9	-0.1950 µg/L	1.34448	-0.1950 ppb	1.34448	689.39%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	114.7	0.5635 µg/L	0.70433	0.5635 ppb	0.70433	125.00%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	254.9	1.4310 µg/L	0.10892	1.4310 ppb	0.10892	7.61%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
QC Failed. Continue with analysis.							



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Analysis Begun

Start Time: 3/31/2010 19:06:02

Plasma On Time: 3/29/2010 18:07:58

Logged In Analyst: optima4

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C0022701Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\033110.sif

Batch ID:

Results Data Set: 033110B

Results Library: C:\pe\optima4\Results\Results.mdb

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Method Loaded

Method Name: Gen Eng fast\_new Si

Method Last Saved: 3/31/2010 18:15:19

IEC File: 031810.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	No
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	Yes
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
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
SiO2	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

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Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/31/2010 19:06:03

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142053.7	142053.7	97.3 %		19:06:36
1	Al 396.153Radial†	26187.8	26965.5	4976.4 µg/L	4976.4 ppb	19:06:36
1	Ca 317.933Radial†	87895.1	89732.8	4998.5 µg/L	4998.5 ppb	19:06:36
1	Fe 238.204 Radial†	78245.6	80232.5	4945.0 µg/L	4945.0 ppb	19:06:36

1	K 766.490 Radial†	15026.3	13891.5	5081.8 µg/L	5081.8 ppb	19:06:36
1	Mg 279.077 IEC†	13439.2	13615.2	5080.7 µg/L	5080.7 ppb	19:06:36
1	Na 589.592 Radial†	71676.4	72341.3	9878.2 µg/L	9878.2 ppb	19:06:36
1	Sr 421.552†	230855.8	237290.2	493.27 µg/L	493.27 ppb	19:06:34
1	Sc 361.383	1692635.7	1692635.7	98.511 %		19:06:49
1	Y 371.029	1002740.0	1002740.0	97.667 %		19:06:49
1	Ag 328.068†	133490.2	131416.3	492.76 µg/L	492.76 ppb	19:06:49
1	As 188.979†	1592.7	1637.1	502.26 µg/L	502.26 ppb	19:07:09
1	B 249.677†	36019.4	33057.9	485.83 µg/L	485.83 ppb	19:06:49
1	Ba 233.527†	119977.2	121926.4	491.73 µg/L	491.73 ppb	19:06:49
1	Be 313.107†	1788795.8	1816895.8	494.84 µg/L	494.84 ppb	19:06:49
1	Cd 226.502†	77305.4	78591.9	490.61 µg/L	490.61 ppb	19:06:49
1	Co 228.616†	39248.1	40031.6	494.19 µg/L	494.19 ppb	19:06:49
1	Cr 267.716†	61675.1	62428.6	488.81 µg/L	488.81 ppb	19:06:49
1	Cu 324.752†	126554.7	125495.2	489.22 µg/L	489.22 ppb	19:06:49
1	Mn 257.610†	394217.2	399938.0	494.63 µg/L	494.63 ppb	19:06:49
1	Mo 202.031†	16588.6	16859.4	495.93 µg/L	495.93 ppb	19:07:09
1	Ni 231.604†	41959.1	42669.8	491.31 µg/L	491.31 ppb	19:06:49
1	P 214.914†	11467.5	11658.8	2485.2 µg/L	2485.2 ppb	19:07:09
1	Pb 220.353†	8908.4	8956.6	501.56 µg/L	501.56 ppb	19:07:09
1	S 181.975 Axial†	1431.0	1347.6	1004.9 µg/L	1004.9 ppb	19:07:09
1	Sb 206.836†	4198.6	4181.2	498.27 µg/L	498.27 ppb	19:07:09
1	Se 196.026†	1378.4	1384.0	502 µg/L	502 ppb	19:07:09
1	SiO2†	55424.9	54487.2	5304.4 µg/L	5304.4 ppb	19:06:49
1	Si 251.611†	167452.8	169147.1	2483.8 µg/L	2483.8 ppb	19:06:49
1	Sn 189.927†	7877.5	7997.7	500.23 µg/L	500.23 ppb	19:07:09
1	Ti 334.940†	520670.2	527586.9	492.28 µg/L	492.28 ppb	19:06:49
1	Tl 190.801†	3872.9	4048.2	504.78 µg/L	504.78 ppb	19:07:09
1	U 409.014†	7291.5	7671.6	478.40 µg/L	478.40 ppb	19:06:49
1	V 292.402†	98968.4	100060.4	494.68 µg/L	494.68 ppb	19:06:49
1	Zn 213.857†	86928.5	87677.9	488.67 µg/L	488.67 ppb	19:06:49
2	Sc RADIAL	141682.9	141682.9	97.1 %		19:06:40
2	Al 396.153Radial†	26223.0	27072.3	4996.3 µg/L	4996.3 ppb	19:06:40
2	Ca 317.933Radial†	87546.1	89609.7	4991.6 µg/L	4991.6 ppb	19:06:40
2	Fe 238.204 Radial†	78166.5	80361.4	4953.0 µg/L	4953.0 ppb	19:06:40
2	K 766.490 Radial†	14890.1	13791.7	5045.3 µg/L	5045.3 ppb	19:06:40
2	Mg 279.077 IEC†	13407.1	13618.3	5081.7 µg/L	5081.7 ppb	19:06:40
2	Na 589.592 Radial†	71442.4	72293.1	9871.6 µg/L	9871.6 ppb	19:06:40
2	Sr 421.552†	234429.9	241592.0	502.22 µg/L	502.22 ppb	19:06:38
2	Sc 361.383	1693933.2	1693933.2	98.587 %		19:07:12
2	Y 371.029	1002754.3	1002754.3	97.669 %		19:07:12
2	Ag 328.068†	133887.2	131715.3	493.86 µg/L	493.86 ppb	19:07:12
2	As 188.979†	1584.7	1627.8	499.44 µg/L	499.44 ppb	19:07:32
2	B 249.677†	36086.4	33097.9	486.42 µg/L	486.42 ppb	19:07:12
2	Ba 233.527†	120244.1	122103.7	492.44 µg/L	492.44 ppb	19:07:12
2	Be 313.107†	1788194.1	1814894.6	494.30 µg/L	494.30 ppb	19:07:12
2	Cd 226.502†	77647.5	78878.9	492.40 µg/L	492.40 ppb	19:07:12
2	Co 228.616†	39316.5	40070.5	494.67 µg/L	494.67 ppb	19:07:12
2	Cr 267.716†	61922.8	62632.0	490.40 µg/L	490.40 ppb	19:07:12
2	Cu 324.752†	126725.3	125569.8	489.51 µg/L	489.51 ppb	19:07:12
2	Mn 257.610†	394218.9	399633.2	494.25 µg/L	494.25 ppb	19:07:12
2	Mo 202.031†	16463.2	16719.3	491.81 µg/L	491.81 ppb	19:07:32
2	Ni 231.604†	42154.2	42835.0	493.21 µg/L	493.21 ppb	19:07:12
2	P 214.914†	11314.3	11494.4	2450.0 µg/L	2450.0 ppb	19:07:32
2	Pb 220.353†	8825.1	8865.3	496.44 µg/L	496.44 ppb	19:07:32
2	S 181.975 Axial†	1411.2	1326.4	989.11 µg/L	989.11 ppb	19:07:32
2	Sb 206.836†	4167.4	4146.3	494.02 µg/L	494.02 ppb	19:07:32
2	Se 196.026†	1363.3	1367.5	497 µg/L	497 ppb	19:07:32
2	SiO2†	55444.1	54463.6	5302.3 µg/L	5302.3 ppb	19:07:12
2	Si 251.611†	167875.0	169445.1	2488.3 µg/L	2488.3 ppb	19:07:12
2	Sn 189.927†	7786.1	7898.8	494.07 µg/L	494.07 ppb	19:07:32
2	Ti 334.940†	520698.2	527210.5	491.92 µg/L	491.92 ppb	19:07:12
2	Tl 190.801†	3845.2	4017.0	500.93 µg/L	500.93 ppb	19:07:32
2	U 409.014†	7348.6	7723.9	481.39 µg/L	481.39 ppb	19:07:12
2	V 292.402†	98856.0	99869.4	493.71 µg/L	493.71 ppb	19:07:12
2	Zn 213.857†	87044.0	87727.5	488.93 µg/L	488.93 ppb	19:07:12
3	Sc RADIAL	140290.8	140290.8	96.1 %		19:06:44
3	Al 396.153Radial†	26121.4	27234.6	5026.5 µg/L	5026.5 ppb	19:06:44
3	Ca 317.933Radial†	86648.1	89570.3	4989.4 µg/L	4989.4 ppb	19:06:44
3	Fe 238.204 Radial†	77524.7	80492.7	4961.1 µg/L	4961.1 ppb	19:06:44
3	K 766.490 Radial†	14881.5	13934.9	5097.7 µg/L	5097.7 ppb	19:06:44

3	Mg 279.077 IEC†	13262.2	13604.5	5076.6 µg/L	5076.6 ppb	19:06:44
3	Na 589.592 Radial†	70817.9	72373.6	9882.6 µg/L	9882.6 ppb	19:06:44
3	Sr 421.552†	230738.3	240148.1	499.21 µg/L	499.21 ppb	19:06:42
3	Sc 361.383	1701566.9	1701566.9	99.031 %		19:07:35
3	Y 371.029	1007094.6	1007094.6	98.092 %		19:07:35
3	Ag 328.068†	134475.4	131699.9	493.82 µg/L	493.82 ppb	19:07:35
3	As 188.979†	1593.4	1629.4	499.91 µg/L	499.91 ppb	19:07:55
3	B 249.677†	36488.9	33340.1	489.99 µg/L	489.99 ppb	19:07:35
3	Ba 233.527†	120822.0	122140.2	492.59 µg/L	492.59 ppb	19:07:35
3	Be 313.107†	1801771.9	1820467.8	495.82 µg/L	495.82 ppb	19:07:35
3	Cd 226.502†	78139.4	79022.2	493.29 µg/L	493.29 ppb	19:07:35
3	Co 228.616†	39662.8	40241.2	496.77 µg/L	496.77 ppb	19:07:35
3	Cr 267.716†	62197.1	62627.2	490.36 µg/L	490.36 ppb	19:07:35
3	Cu 324.752†	127822.8	126101.4	491.58 µg/L	491.58 ppb	19:07:35
3	Mn 257.610†	397277.8	400928.1	495.85 µg/L	495.85 ppb	19:07:35
3	Mo 202.031†	16490.8	16672.2	490.43 µg/L	490.43 ppb	19:07:55
3	Ni 231.604†	42326.5	42817.2	493.01 µg/L	493.01 ppb	19:07:35
3	P 214.914†	11342.9	11471.9	2445.2 µg/L	2445.2 ppb	19:07:55
3	Pb 220.353†	8843.5	8843.7	495.23 µg/L	495.23 ppb	19:07:55
3	S 181.975 Axial†	1419.8	1328.6	990.72 µg/L	990.72 ppb	19:07:55
3	Sb 206.836†	4178.4	4138.4	493.07 µg/L	493.07 ppb	19:07:55
3	Se 196.026†	1363.2	1361.3	494 µg/L	494 ppb	19:07:55
3	SiO2†	56222.5	54997.3	5354.5 µg/L	5354.5 ppb	19:07:35
3	Si 251.611†	169502.3	170324.4	2501.3 µg/L	2501.3 ppb	19:07:35
3	Sn 189.927†	7808.9	7886.4	493.30 µg/L	493.30 ppb	19:07:55
3	Ti 334.940†	523661.8	527833.6	492.50 µg/L	492.50 ppb	19:07:35
3	Tl 190.801†	3856.9	4011.4	500.25 µg/L	500.25 ppb	19:07:55
3	U 409.014†	7413.7	7756.2	483.37 µg/L	483.37 ppb	19:07:35
3	V 292.402†	99576.3	100146.9	495.05 µg/L	495.05 ppb	19:07:35
3	Zn 213.857†	87808.2	88103.1	491.04 µg/L	491.04 ppb	19:07:35

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1696045.3	98.710 %	0.2809			0.28%
Sc RADIAL	141342.5	96.9 %	0.64			0.66%
Y 371.029	1004196.3	97.809 %	0.2445			0.25%
Ag 328.068†	131610.5	493.48 µg/L	0.624	493.48 ppb	0.624	0.13%
QC value within limits for Ag 328.068 Recovery = 98.70%						
Al 396.153Radial†	27090.8	4999.7 µg/L	25.24	4999.7 ppb	25.24	0.50%
QC value within limits for Al 396.153Radial Recovery = 99.99%						
As 188.979†	1631.4	500.54 µg/L	1.508	500.54 ppb	1.508	0.30%
QC value within limits for As 188.979 Recovery = 100.11%						
B 249.677†	33165.3	487.41 µg/L	2.247	487.41 ppb	2.247	0.46%
QC value within limits for B 249.677 Recovery = 97.48%						
Ba 233.527†	122056.8	492.25 µg/L	0.460	492.25 ppb	0.460	0.09%
QC value within limits for Ba 233.527 Recovery = 98.45%						
Be 313.107†	1817419.4	494.99 µg/L	0.769	494.99 ppb	0.769	0.16%
QC value within limits for Be 313.107 Recovery = 99.00%						
Ca 317.933Radial†	89637.6	4993.2 µg/L	4.72	4993.2 ppb	4.72	0.09%
QC value within limits for Ca 317.933Radial Recovery = 99.86%						
Cd 226.502†	78831.0	492.10 µg/L	1.368	492.10 ppb	1.368	0.28%
QC value within limits for Cd 226.502 Recovery = 98.42%						
Co 228.616†	40114.4	495.21 µg/L	1.376	495.21 ppb	1.376	0.28%
QC value within limits for Co 228.616 Recovery = 99.04%						
Cr 267.716†	62562.6	489.86 µg/L	0.907	489.86 ppb	0.907	0.19%
QC value within limits for Cr 267.716 Recovery = 97.97%						
Cu 324.752†	125722.1	490.10 µg/L	1.288	490.10 ppb	1.288	0.26%
QC value within limits for Cu 324.752 Recovery = 98.02%						
Fe 238.204 Radial†	80362.2	4953.0 µg/L	8.02	4953.0 ppb	8.02	0.16%
QC value within limits for Fe 238.204 Radial Recovery = 99.06%						
K 766.490 Radial†	13872.7	5074.9 µg/L	26.88	5074.9 ppb	26.88	0.53%
QC value within limits for K 766.490 Radial Recovery = 101.50%						
Mg 279.077 IEC†	13612.7	5079.7 µg/L	2.74	5079.7 ppb	2.74	0.05%
QC value within limits for Mg 279.077 IEC Recovery = 101.59%						
Mn 257.610†	400166.4	494.91 µg/L	0.838	494.91 ppb	0.838	0.17%
QC value within limits for Mn 257.610 Recovery = 98.98%						
Mo 202.031†	16750.3	492.72 µg/L	2.861	492.72 ppb	2.861	0.58%
QC value within limits for Mo 202.031 Recovery = 98.54%						
Na 589.592 Radial†	72336.0	9877.5 µg/L	5.51	9877.5 ppb	5.51	0.06%

QC value within limits for Na 589.592 Radial Recovery = 98.77%

Ni 231.604†	42774.0	492.51 µg/L	1.044	492.51 ppb	1.044	0.21%
QC value within limits for Ni 231.604 Recovery = 98.50%						
P 214.914†	11541.7	2460.1 µg/L	21.83	2460.1 ppb	21.83	0.89%
QC value within limits for P 214.914 Recovery = 98.40%						
Pb 220.353†	8888.5	497.74 µg/L	3.356	497.74 ppb	3.356	0.67%
QC value within limits for Pb 220.353 Recovery = 99.55%						
S 181.975 Axial†	1334.2	994.90 µg/L	8.662	994.90 ppb	8.662	0.87%
QC value within limits for S 181.975 Axial Recovery = 99.49%						
Sb 206.836†	4155.3	495.12 µg/L	2.767	495.12 ppb	2.767	0.56%
QC value within limits for Sb 206.836 Recovery = 99.02%						
Se 196.026†	1370.9	498 µg/L	4.2	498 ppb	4.2	0.85%
QC value within limits for Se 196.026 Recovery = 99.56%						
SiO2†	54649.4	5320.4 µg/L	29.56	5320.4 ppb	29.56	0.56%
QC value within limits for SiO2 Recovery = 99.49%						
Si 251.611†	169638.9	2491.1 µg/L	9.08	2491.1 ppb	9.08	0.36%
QC value within limits for Si 251.611 Recovery = 99.65%						
Sn 189.927†	7927.7	495.87 µg/L	3.802	495.87 ppb	3.802	0.77%
QC value within limits for Sn 189.927 Recovery = 99.17%						
Sr 421.552†	239676.8	498.23 µg/L	4.551	498.23 ppb	4.551	0.91%
QC value within limits for Sr 421.552 Recovery = 99.65%						
Ti 334.940†	527543.7	492.23 µg/L	0.293	492.23 ppb	0.293	0.06%
QC value within limits for Ti 334.940 Recovery = 98.45%						
Tl 190.801†	4025.5	501.99 µg/L	2.440	501.99 ppb	2.440	0.49%
QC value within limits for Tl 190.801 Recovery = 100.40%						
U 409.014†	7717.2	481.05 µg/L	2.502	481.05 ppb	2.502	0.52%
QC value within limits for U 409.014 Recovery = 96.21%						
V 292.402†	100025.5	494.48 µg/L	0.691	494.48 ppb	0.691	0.14%
QC value within limits for V 292.402 Recovery = 98.90%						
Zn 213.857†	87836.2	489.55 µg/L	1.301	489.55 ppb	1.301	0.27%
QC value within limits for Zn 213.857 Recovery = 97.91%						

All analyte(s) passed QC.

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 19:08:04

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	143606.3	143606.3	98.4 %		19:08:33
1	Al 396.153Radial†	-40.6	21.9	4.0709 µg/L	4.0709 ppb	19:08:53
1	Ca 317.933Radial†	593.8	42.8	2.3863 µg/L	2.3863 ppb	19:08:53
1	Fe 238.204 Radial†	181.2	36.0	2.2211 µg/L	2.2211 ppb	19:08:53
1	K 766.490 Radial†	1807.5	291.9	106.87 µg/L	106.87 ppb	19:08:33
1	Mg 279.077 IEC†	167.1	-20.9	-7.7799 µg/L	-7.7799 ppb	19:08:53
1	Na 589.592 Radial†	1829.3	568.1	77.508 µg/L	77.508 ppb	19:08:33
1	Sr 421.552†	-159.2	-26.5	-0.0550 µg/L	-0.0550 ppb	19:08:33
1	Sc 361.383	1699498.0	1699498.0	98.911 %		19:09:55
1	Y 371.029	1016806.2	1016806.2	99.037 %		19:09:55
1	Ag 328.068†	3769.0	-280.8	-1.0378 µg/L	-1.0378 ppb	19:09:57
1	As 188.979†	-4.4	15.9	4.8042 µg/L	4.8042 ppb	19:10:17
1	B 249.677†	3588.4	122.0	1.7978 µg/L	1.7978 ppb	19:09:57
1	Ba 233.527†	-115.2	19.4	0.0783 µg/L	0.0783 ppb	19:10:17
1	Be 313.107†	-954.3	99.8	0.0273 µg/L	0.0273 ppb	19:09:57
1	Cd 226.502†	-91.5	25.7	0.1602 µg/L	0.1602 ppb	19:10:17
1	Co 228.616†	-158.7	29.9	0.3690 µg/L	0.3690 ppb	19:10:17
1	Cr 267.716†	173.6	-3.0	-0.0236 µg/L	-0.0236 ppb	19:10:17
1	Cu 324.752†	3195.6	258.6	1.0054 µg/L	1.0054 ppb	19:09:57
1	Mn 257.610†	286.5	52.4	0.0651 µg/L	0.0651 ppb	19:10:17
1	Mo 202.031†	-26.1	-6.3	-0.1854 µg/L	-0.1854 ppb	19:10:17
1	Ni 231.604†	-117.6	-42.4	-0.4885 µg/L	-0.4885 ppb	19:10:17
1	P 214.914†	-30.3	-12.6	-2.7014 µg/L	-2.7014 ppb	19:10:17
1	Pb 220.353†	88.8	3.4	0.1879 µg/L	0.1879 ppb	19:10:17
1	S 181.975 Axial†	97.0	-6.9	-5.1546 µg/L	-5.1546 ppb	19:10:17
1	Sb 206.836†	72.1	-8.0	-0.9474 µg/L	-0.9474 ppb	19:10:17
1	Se 196.026†	15.9	0.8	0.281 µg/L	0.281 ppb	19:10:17
1	SiO2†	1782.8	27.1	2.6348 µg/L	2.6348 ppb	19:09:57
1	Si 251.611†	842.6	15.3	0.2204 µg/L	0.2204 ppb	19:09:57
1	Sn 189.927†	17.4	18.7	1.1657 µg/L	1.1657 ppb	19:10:17
1	Ti 334.940†	982.6	40.9	0.0388 µg/L	0.0388 ppb	19:09:57
1	Tl 190.801†	-115.4	-0.0	-0.0031 µg/L	-0.0031 ppb	19:10:17
1	U 409.014†	-263.1	3.9	0.2381 µg/L	0.2381 ppb	19:09:57
1	V 292.402†	432.1	33.1	0.1592 µg/L	0.1592 ppb	19:09:57
1	Zn 213.857†	662.7	105.6	0.5956 µg/L	0.5956 ppb	19:10:17
2	Sc RADIAL	143906.0	143906.0	98.6 %		19:08:55
2	Al 396.153Radial†	-30.9	31.9	5.9210 µg/L	5.9210 ppb	19:09:15
2	Ca 317.933Radial†	576.5	24.0	1.3374 µg/L	1.3374 ppb	19:09:15
2	Fe 238.204 Radial†	194.8	49.4	3.0451 µg/L	3.0451 ppb	19:09:15
2	K 766.490 Radial†	1821.8	302.6	110.79 µg/L	110.79 ppb	19:08:55
2	Mg 279.077 IEC†	181.6	-6.5	-2.4285 µg/L	-2.4285 ppb	19:09:15
2	Na 589.592 Radial†	1674.8	407.6	55.585 µg/L	55.585 ppb	19:08:55
2	Sr 421.552†	-76.3	57.9	0.1204 µg/L	0.1204 ppb	19:08:55
2	Sc 361.383	1701303.0	1701303.0	99.016 %		19:10:20
2	Y 371.029	1018421.2	1018421.2	99.195 %		19:10:20
2	Ag 328.068†	4174.8	124.9	0.4507 µg/L	0.4507 ppb	19:10:22
2	As 188.979†	-9.4	10.9	3.3020 µg/L	3.3020 ppb	19:10:42
2	B 249.677†	3516.0	45.1	0.6647 µg/L	0.6647 ppb	19:10:22
2	Ba 233.527†	-149.1	-14.7	-0.0595 µg/L	-0.0595 ppb	19:10:42
2	Be 313.107†	-839.9	216.4	0.0569 µg/L	0.0569 ppb	19:10:22
2	Cd 226.502†	-102.1	15.1	0.0939 µg/L	0.0939 ppb	19:10:42
2	Co 228.616†	-188.6	-0.1	-0.0019 µg/L	-0.0019 ppb	19:10:42
2	Cr 267.716†	211.4	34.9	0.2788 µg/L	0.2788 ppb	19:10:42
2	Cu 324.752†	2916.8	-26.4	-0.1080 µg/L	-0.1080 ppb	19:10:22
2	Mn 257.610†	284.4	50.0	0.0619 µg/L	0.0619 ppb	19:10:42
2	Mo 202.031†	-25.0	-5.2	-0.1530 µg/L	-0.1530 ppb	19:10:42
2	Ni 231.604†	-103.9	-28.5	-0.3278 µg/L	-0.3278 ppb	19:10:42
2	P 214.914†	-33.0	-15.3	-3.2711 µg/L	-3.2711 ppb	19:10:42
2	Pb 220.353†	114.7	29.5	1.6503 µg/L	1.6503 ppb	19:10:42

2	S 181.975 Axial†	99.7	-4.4	-3.2387 µg/L	-3.2387 ppb	19:10:42
2	Sb 206.836†	76.2	-3.9	-0.4635 µg/L	-0.4635 ppb	19:10:42
2	Se 196.026†	16.5	1.4	0.491 µg/L	0.491 ppb	19:10:42
2	SiO2†	1763.9	6.1	0.5919 µg/L	0.5919 ppb	19:10:22
2	Si 251.611†	911.5	84.0	1.2359 µg/L	1.2359 ppb	19:10:22
2	Sn 189.927†	8.3	9.5	0.5950 µg/L	0.5950 ppb	19:10:42
2	Ti 334.940†	886.7	-57.0	-0.0503 µg/L	-0.0503 ppb	19:10:22
2	Tl 190.801†	-114.1	1.5	0.1759 µg/L	0.1759 ppb	19:10:42
2	U 409.014†	-383.3	-117.2	-6.8703 µg/L	-6.8703 ppb	19:10:22
2	V 292.402†	344.9	-55.5	-0.2761 µg/L	-0.2761 ppb	19:10:22
2	Zn 213.857†	648.7	90.7	0.5114 µg/L	0.5114 ppb	19:10:42
3	Sc RADIAL	142315.2	142315.2	97.5 %		19:09:17
3	Al 396.153Radial†	-52.2	9.6	1.7667 µg/L	1.7667 ppb	19:09:37
3	Ca 317.933Radial†	577.3	31.3	1.7458 µg/L	1.7458 ppb	19:09:37
3	Fe 238.204 Radial†	193.7	50.5	3.1105 µg/L	3.1105 ppb	19:09:37
3	K 766.490 Radial†	1715.2	213.9	78.318 µg/L	78.318 ppb	19:09:17
3	Mg 279.077 IEC†	194.2	8.4	3.1563 µg/L	3.1563 ppb	19:09:37
3	Na 589.592 Radial†	1682.9	434.8	59.332 µg/L	59.332 ppb	19:09:17
3	Sr 421.552†	-204.0	-73.9	-0.1537 µg/L	-0.1537 ppb	19:09:17
3	Sc 361.383	1707432.2	1707432.2	99.372 %		19:10:44
3	Y 371.029	1021900.0	1021900.0	99.534 %		19:10:44
3	Ag 328.068†	4053.2	-12.6	-0.0528 µg/L	-0.0528 ppb	19:10:46
3	As 188.979†	-2.3	18.1	5.4690 µg/L	5.4690 ppb	19:11:06
3	B 249.677†	3514.8	31.1	0.4591 µg/L	0.4591 ppb	19:10:46
3	Ba 233.527†	-138.9	-3.9	-0.0159 µg/L	-0.0159 ppb	19:11:06
3	Be 313.107†	-1076.7	-18.8	-0.0056 µg/L	-0.0056 ppb	19:10:46
3	Cd 226.502†	-100.3	17.3	0.1074 µg/L	0.1074 ppb	19:11:06
3	Co 228.616†	-200.8	-11.7	-0.1450 µg/L	-0.1450 ppb	19:11:06
3	Cr 267.716†	180.7	3.3	0.0269 µg/L	0.0269 ppb	19:11:06
3	Cu 324.752†	3029.2	76.1	0.2948 µg/L	0.2948 ppb	19:10:46
3	Mn 257.610†	296.9	61.5	0.0760 µg/L	0.0760 ppb	19:11:06
3	Mo 202.031†	-3.7	16.3	0.4802 µg/L	0.4802 ppb	19:11:06
3	Ni 231.604†	-90.5	-14.6	-0.1676 µg/L	-0.1676 ppb	19:11:06
3	P 214.914†	-14.2	3.7	0.7799 µg/L	0.7799 ppb	19:11:06
3	Pb 220.353†	92.0	6.2	0.3485 µg/L	0.3485 ppb	19:11:06
3	S 181.975 Axial†	108.0	3.6	2.6796 µg/L	2.6796 ppb	19:11:06
3	Sb 206.836†	87.9	7.6	0.9107 µg/L	0.9107 ppb	19:11:06
3	Se 196.026†	15.0	-0.2	-0.060 µg/L	-0.060 ppb	19:11:06
3	SiO2†	1735.7	-28.7	-2.8190 µg/L	-2.8190 ppb	19:10:46
3	Si 251.611†	790.1	-41.5	-0.6182 µg/L	-0.6182 ppb	19:10:46
3	Sn 189.927†	-1.2	-0.1	-0.0053 µg/L	-0.0053 ppb	19:11:06
3	Ti 334.940†	766.5	-181.2	-0.1688 µg/L	-0.1688 ppb	19:10:46
3	Tl 190.801†	-101.0	15.0	1.8436 µg/L	1.8436 ppb	19:11:06
3	U 409.014†	-295.6	-27.6	-1.6324 µg/L	-1.6324 ppb	19:10:46
3	V 292.402†	332.8	-68.9	-0.3322 µg/L	-0.3322 ppb	19:10:46
3	Zn 213.857†	625.3	64.8	0.3648 µg/L	0.3648 ppb	19:11:06

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Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1702744.4	99.099 %	0.2420			0.24%
Sc RADIAL	143275.8	98.2 %	0.58			0.59%
Y 371.029	1019042.5	99.255 %	0.2535			0.26%
Ag 328.068†	-56.2	-0.2133 µg/L	0.75716	-0.2133 ppb	0.75716	354.96%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	21.2	3.9195 µg/L	2.08128	3.9195 ppb	2.08128	53.10%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	15.0	4.5251 µg/L	1.11017	4.5251 ppb	1.11017	24.53%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	66.0	0.9738 µg/L	0.72094	0.9738 ppb	0.72094	74.03%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	0.3	0.0009 µg/L	0.07043	0.0009 ppb	0.07043	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	99.2	0.0262 µg/L	0.03124	0.0262 ppb	0.03124	119.39%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	32.7	1.8232 µg/L	0.52869	1.8232 ppb	0.52869	29.00%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	19.4	0.1205 µg/L	0.03504	0.1205 ppb	0.03504	29.08%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	6.0	0.0740 µg/L	0.26530	0.0740 ppb	0.26530	358.50%

Cr	267.716†	11.7	0.0940 µg/L	0.16198	0.0940 ppb	0.16198	172.24%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	102.8	0.3974 µg/L	0.56376	0.3974 ppb	0.56376	141.85%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	45.3	2.7923 µg/L	0.49571	2.7923 ppb	0.49571	17.75%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	269.5	98.660 µg/L	17.7254	98.660 ppb	17.7254	17.97%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-6.3	-2.3507 µg/L	5.46855	-2.3507 ppb	5.46855	232.63%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	54.6	0.0677 µg/L	0.00738	0.0677 ppb	0.00738	10.91%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	1.6	0.0473 µg/L	0.37526	0.0473 ppb	0.37526	793.90%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	470.2	64.142 µg/L	11.7262	64.142 ppb	11.7262	18.28%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-28.5	-0.3280 µg/L	0.16046	-0.3280 ppb	0.16046	48.93%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-8.1	-1.7309 µg/L	2.19296	-1.7309 ppb	2.19296	126.69%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	13.0	0.7289 µg/L	0.80200	0.7289 ppb	0.80200	110.03%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-2.6	-1.9046 µg/L	4.08395	-1.9046 ppb	4.08395	214.43%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	-1.4	-0.1667 µg/L	0.96394	-0.1667 ppb	0.96394	578.22%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	0.7	0.238 µg/L	0.2782	0.238 ppb	0.2782	117.02%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		1.5	0.1359 µg/L	2.75534	0.1359 ppb	2.75534	>999.9%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	19.3	0.2794 µg/L	0.92845	0.2794 ppb	0.92845	332.33%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	9.4	0.5851 µg/L	0.58554	0.5851 ppb	0.58554	100.07%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-14.1	-0.0294 µg/L	0.13885	-0.0294 ppb	0.13885	471.87%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	-65.8	-0.0601 µg/L	0.10414	-0.0601 ppb	0.10414	173.25%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	5.5	0.6721 µg/L	1.01847	0.6721 ppb	1.01847	151.53%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-47.0	-2.7549 µg/L	3.68475	-2.7549 ppb	3.68475	133.75%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-30.4	-0.1497 µg/L	0.26898	-0.1497 ppb	0.26898	179.67%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	87.0	0.4906 µg/L	0.11682	0.4906 ppb	0.11682	23.81%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 19:27:41

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	144745.8	144745.8	99.2 %		19:28:15
1	Al 396.153Radial†	26764.4	27046.5	4991.6 µg/L	4991.6 ppb	19:28:15
1	Ca 317.933Radial†	89467.8	89639.1	4993.2 µg/L	4993.2 ppb	19:28:15
1	Fe 238.204 Radial†	79722.2	80226.2	4944.7 µg/L	4944.7 ppb	19:28:15
1	K 766.490 Radial†	14982.5	13560.3	4960.6 µg/L	4960.6 ppb	19:28:15
1	Mg 279.077 IEC†	13759.9	13681.8	5105.4 µg/L	5105.4 ppb	19:28:15
1	Na 589.592 Radial†	72591.2	71894.2	9817.2 µg/L	9817.2 ppb	19:28:15
1	Sr 421.552†	234529.9	236583.6	491.80 µg/L	491.80 ppb	19:28:12
1	Sc 361.383	1725305.4	1725305.4	100.41 %		19:28:27
1	Y 371.029	1020728.0	1020728.0	99.419 %		19:28:27
1	Ag 328.068†	136300.1	131648.8	493.59 µg/L	493.59 ppb	19:28:27
1	As 188.979†	1633.4	1647.0	505.23 µg/L	505.23 ppb	19:28:47
1	B 249.677†	36849.8	33192.5	487.82 µg/L	487.82 ppb	19:28:27
1	Ba 233.527†	122221.5	121855.2	491.44 µg/L	491.44 ppb	19:28:27
1	Be 313.107†	1820741.4	1814326.2	494.14 µg/L	494.14 ppb	19:28:27
1	Cd 226.502†	78844.9	78639.2	490.90 µg/L	490.90 ppb	19:28:27
1	Co 228.616†	39847.3	39874.0	492.24 µg/L	492.24 ppb	19:28:27
1	Cr 267.716†	62843.9	62407.1	488.65 µg/L	488.65 ppb	19:28:27
1	Cu 324.752†	129009.2	125507.0	489.26 µg/L	489.26 ppb	19:28:27
1	Mn 257.610†	401352.4	399466.3	494.04 µg/L	494.04 ppb	19:28:27
1	Mo 202.031†	16754.7	16705.9	491.42 µg/L	491.42 ppb	19:28:47
1	Ni 231.604†	42787.5	42688.2	491.52 µg/L	491.52 ppb	19:28:27
1	P 214.914†	11575.7	11546.1	2461.1 µg/L	2461.1 ppb	19:28:47
1	Pb 220.353†	8987.5	8864.2	496.39 µg/L	496.39 ppb	19:28:47
1	S 181.975 Axial†	1425.3	1314.4	980.21 µg/L	980.21 ppb	19:28:47
1	Sb 206.836†	4236.7	4138.5	493.11 µg/L	493.11 ppb	19:28:47
1	Se 196.026†	1383.3	1362.3	495 µg/L	495 ppb	19:28:47
1	SiO2†	56481.4	54474.0	5303.3 µg/L	5303.3 ppb	19:28:27
1	Si 251.611†	170572.5	169035.2	2482.3 µg/L	2482.3 ppb	19:28:27
1	Sn 189.927†	7932.0	7900.5	494.17 µg/L	494.17 ppb	19:28:47
1	Ti 334.940†	529379.1	526251.8	491.03 µg/L	491.03 ppb	19:28:27
1	Tl 190.801†	3920.2	4020.8	501.40 µg/L	501.40 ppb	19:28:47
1	U 409.014†	7328.3	7568.1	472.22 µg/L	472.22 ppb	19:28:27
1	V 292.402†	100463.2	99646.7	492.61 µg/L	492.61 ppb	19:28:27
1	Zn 213.857†	88617.6	87689.1	488.73 µg/L	488.73 ppb	19:28:27
2	Sc RADIAL	143128.0	143128.0	98.1 %		19:28:19
2	Al 396.153Radial†	26390.4	26970.3	4977.5 µg/L	4977.5 ppb	19:28:19
2	Ca 317.933Radial†	88547.9	89720.6	4997.8 µg/L	4997.8 ppb	19:28:19
2	Fe 238.204 Radial†	78967.6	80365.3	4953.2 µg/L	4953.2 ppb	19:28:19
2	K 766.490 Radial†	14857.2	13603.3	4976.3 µg/L	4976.3 ppb	19:28:19
2	Mg 279.077 IEC†	13593.0	13668.4	5100.4 µg/L	5100.4 ppb	19:28:19
2	Na 589.592 Radial†	71676.1	71788.4	9802.7 µg/L	9802.7 ppb	19:28:19
2	Sr 421.552†	234348.1	239070.9	496.98 µg/L	496.98 ppb	19:28:17
2	Sc 361.383	1734628.6	1734628.6	100.96 %		19:28:51
2	Y 371.029	1025716.4	1025716.4	99.905 %		19:28:51
2	Ag 328.068†	136816.4	131430.6	492.82 µg/L	492.82 ppb	19:28:51
2	As 188.979†	1631.9	1636.9	502.17 µg/L	502.17 ppb	19:29:11
2	B 249.677†	37069.7	33213.1	488.12 µg/L	488.12 ppb	19:28:51
2	Ba 233.527†	122992.1	121964.3	491.88 µg/L	491.88 ppb	19:28:51
2	Be 313.107†	1838526.2	1822196.9	496.29 µg/L	496.29 ppb	19:28:51
2	Cd 226.502†	79892.7	79255.0	494.75 µg/L	494.75 ppb	19:28:51
2	Co 228.616†	40292.1	40101.3	495.05 µg/L	495.05 ppb	19:28:51
2	Cr 267.716†	63389.6	62611.4	490.23 µg/L	490.23 ppb	19:28:51
2	Cu 324.752†	129959.6	125757.9	490.25 µg/L	490.25 ppb	19:28:51
2	Mn 257.610†	404701.1	400635.0	495.49 µg/L	495.49 ppb	19:28:51
2	Mo 202.031†	16826.1	16687.0	490.86 µg/L	490.86 ppb	19:29:11
2	Ni 231.604†	43211.3	42879.0	493.72 µg/L	493.72 ppb	19:28:51
2	P 214.914†	11647.2	11554.9	2462.9 µg/L	2462.9 ppb	19:29:11
2	Pb 220.353†	9025.0	8853.2	495.76 µg/L	495.76 ppb	19:29:11



2	S 181.975 Axial†	1448.9	1330.1	991.87 µg/L	991.87 ppb	19:29:11
2	Sb 206.836†	4260.0	4138.9	493.13 µg/L	493.13 ppb	19:29:11
2	Se 196.026†	1384.1	1355.7	492 µg/L	492 ppb	19:29:11
2	SiO2†	56922.3	54608.4	5316.4 µg/L	5316.4 ppb	19:28:51
2	Si 251.611†	172250.5	169784.3	2493.3 µg/L	2493.3 ppb	19:28:51
2	Sn 189.927†	7982.8	7908.4	494.67 µg/L	494.67 ppb	19:29:11
2	Ti 334.940†	533116.5	527120.2	491.83 µg/L	491.83 ppb	19:28:51
2	Tl 190.801†	3941.1	4020.5	501.37 µg/L	501.37 ppb	19:29:11
2	U 409.014†	7625.6	7823.4	487.25 µg/L	487.25 ppb	19:28:51
2	V 292.402†	101346.4	99983.8	494.26 µg/L	494.26 ppb	19:28:51
2	Zn 213.857†	89423.9	88013.5	490.54 µg/L	490.54 ppb	19:28:51
3	Sc RADIAL	145496.7	145496.7	99.7 %		19:28:23
3	Al 396.153Radial†	26858.9	27002.0	4983.3 µg/L	4983.3 ppb	19:28:23
3	Ca 317.933Radial†	90156.6	89864.4	5005.8 µg/L	5005.8 ppb	19:28:23
3	Fe 238.204 Radial†	80315.1	80406.1	4955.7 µg/L	4955.7 ppb	19:28:23
3	K 766.490 Radial†	15083.0	13583.2	4968.9 µg/L	4968.9 ppb	19:28:23
3	Mg 279.077 IEC†	13878.0	13728.6	5122.9 µg/L	5122.9 ppb	19:28:23
3	Na 589.592 Radial†	72879.8	71805.9	9805.1 µg/L	9805.1 ppb	19:28:23
3	Sr 421.552†	234221.7	235054.0	488.62 µg/L	488.62 ppb	19:28:21
3	Sc 361.383	1725210.5	1725210.5	100.41 %		19:29:14
3	Y 371.029	1019973.4	1019973.4	99.346 %		19:29:14
3	Ag 328.068†	135997.1	131354.5	492.51 µg/L	492.51 ppb	19:29:14
3	As 188.979†	1616.1	1629.9	500.07 µg/L	500.07 ppb	19:29:34
3	B 249.677†	36719.7	33065.0	485.94 µg/L	485.94 ppb	19:29:14
3	Ba 233.527†	122082.7	121723.7	490.91 µg/L	490.91 ppb	19:29:14
3	Be 313.107†	1823924.9	1817596.6	495.03 µg/L	495.03 ppb	19:29:14
3	Cd 226.502†	79138.6	78936.0	492.75 µg/L	492.75 ppb	19:29:14
3	Co 228.616†	39917.6	39946.1	493.13 µg/L	493.13 ppb	19:29:14
3	Cr 267.716†	63023.3	62589.2	490.08 µg/L	490.08 ppb	19:29:14
3	Cu 324.752†	129255.3	125759.2	490.24 µg/L	490.24 ppb	19:29:14
3	Mn 257.610†	401870.3	400004.1	494.71 µg/L	494.71 ppb	19:29:14
3	Mo 202.031†	16781.3	16733.4	492.23 µg/L	492.23 ppb	19:29:34
3	Ni 231.604†	42953.4	42855.8	493.45 µg/L	493.45 ppb	19:29:14
3	P 214.914†	11608.1	11579.0	2468.1 µg/L	2468.1 ppb	19:29:34
3	Pb 220.353†	9009.0	8886.1	497.61 µg/L	497.61 ppb	19:29:34
3	S 181.975 Axial†	1440.9	1330.0	991.78 µg/L	991.78 ppb	19:29:34
3	Sb 206.836†	4230.2	4132.2	492.36 µg/L	492.36 ppb	19:29:34
3	Se 196.026†	1386.3	1365.4	496 µg/L	496 ppb	19:29:34
3	SiO2†	56734.1	54728.8	5328.1 µg/L	5328.1 ppb	19:29:14
3	Si 251.611†	171053.5	169523.6	2489.4 µg/L	2489.4 ppb	19:29:14
3	Sn 189.927†	7957.3	7926.1	495.77 µg/L	495.77 ppb	19:29:34
3	Ti 334.940†	529976.9	526876.1	491.61 µg/L	491.61 ppb	19:29:14
3	Tl 190.801†	3905.9	4006.8	499.68 µg/L	499.68 ppb	19:29:34
3	U 409.014†	7243.0	7483.6	467.35 µg/L	467.35 ppb	19:29:14
3	V 292.402†	100691.8	99879.9	493.76 µg/L	493.76 ppb	19:29:14
3	Zn 213.857†	88689.8	87765.9	489.15 µg/L	489.15 ppb	19:29:14

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1728381.5	100.59 %	0.315			0.31%
Sc RADIAL	144456.8	99.0 %	0.83			0.84%
Y 371.029	1022139.3	99.557 %	0.3040			0.31%
Ag 328.068†	131478.0	492.97 µg/L	0.557	492.97 ppb	0.557	0.11%
QC value within limits for Ag 328.068 Recovery = 98.59%						
Al 396.153Radial†	27006.3	4984.1 µg/L	7.09	4984.1 ppb	7.09	0.14%
QC value within limits for Al 396.153Radial Recovery = 99.68%						
As 188.979†	1637.9	502.49 µg/L	2.596	502.49 ppb	2.596	0.52%
QC value within limits for As 188.979 Recovery = 100.50%						
B 249.677†	33156.9	487.29 µg/L	1.181	487.29 ppb	1.181	0.24%
QC value within limits for B 249.677 Recovery = 97.46%						
Ba 233.527†	121847.7	491.41 µg/L	0.486	491.41 ppb	0.486	0.10%
QC value within limits for Ba 233.527 Recovery = 98.28%						
Be 313.107†	1818039.9	495.15 µg/L	1.079	495.15 ppb	1.079	0.22%
QC value within limits for Be 313.107 Recovery = 99.03%						
Ca 317.933Radial†	89741.4	4998.9 µg/L	6.35	4998.9 ppb	6.35	0.13%
QC value within limits for Ca 317.933Radial Recovery = 99.98%						
Cd 226.502†	78943.4	492.80 µg/L	1.924	492.80 ppb	1.924	0.39%
QC value within limits for Cd 226.502 Recovery = 98.56%						
Co 228.616†	39973.8	493.47 µg/L	1.433	493.47 ppb	1.433	0.29%

QC value within limits for Co 228.616	Recovery = 98.69%			
Cr 267.716†	62535.9	489.65 µg/L	0.875	0.18%
QC value within limits for Cr 267.716	Recovery = 97.93%			
Cu 324.752†	125674.7	489.91 µg/L	0.568	0.12%
QC value within limits for Cu 324.752	Recovery = 97.98%			
Fe 238.204 Radial†	80332.5	4951.2 µg/L	5.81	0.12%
QC value within limits for Fe 238.204 Radial	Recovery = 99.02%			
K 766.490 Radial†	13582.3	4968.6 µg/L	7.88	0.16%
QC value within limits for K 766.490 Radial	Recovery = 99.37%			
Mg 279.077 IEC†	13692.9	5109.5 µg/L	11.80	0.23%
QC value within limits for Mg 279.077 IEC	Recovery = 102.19%			
Mn 257.610†	400035.1	494.75 µg/L	0.724	0.15%
QC value within limits for Mn 257.610	Recovery = 98.95%			
Mo 202.031†	16708.8	491.50 µg/L	0.686	0.14%
QC value within limits for Mo 202.031	Recovery = 98.30%			
Na 589.592 Radial†	71829.5	9808.4 µg/L	7.75	0.08%
QC value within limits for Na 589.592 Radial	Recovery = 98.08%			
Ni 231.604†	42807.7	492.90 µg/L	1.199	0.24%
QC value within limits for Ni 231.604	Recovery = 98.58%			
P 214.914†	11560.0	2464.0 µg/L	3.63	0.15%
QC value within limits for P 214.914	Recovery = 98.56%			
Pb 220.353†	8867.8	496.59 µg/L	0.942	0.19%
QC value within limits for Pb 220.353	Recovery = 99.32%			
S 181.975 Axial†	1324.9	987.95 µg/L	6.702	0.68%
QC value within limits for S 181.975 Axial	Recovery = 98.80%			
Sb 206.836†	4136.5	492.87 µg/L	0.436	0.09%
QC value within limits for Sb 206.836	Recovery = 98.57%			
Se 196.026†	1361.2	494 µg/L	1.8	0.36%
QC value within limits for Se 196.026	Recovery = 98.85%			
SiO2†	54603.7	5315.9 µg/L	12.44	0.23%
QC value within limits for SiO2	Recovery = 99.41%			
Si 251.611†	169447.7	2488.3 µg/L	5.61	0.23%
QC value within limits for Si 251.611	Recovery = 99.53%			
Sn 189.927†	7911.7	494.87 µg/L	0.819	0.17%
QC value within limits for Sn 189.927	Recovery = 98.97%			
Sr 421.552†	236902.8	492.47 µg/L	4.215	0.86%
QC value within limits for Sr 421.552	Recovery = 98.49%			
Ti 334.940†	526749.4	491.49 µg/L	0.416	0.08%
QC value within limits for Ti 334.940	Recovery = 98.30%			
Tl 190.801†	4016.0	500.82 µg/L	0.981	0.20%
QC value within limits for Tl 190.801	Recovery = 100.16%			
U 409.014†	7625.0	475.61 µg/L	10.374	2.18%
QC value within limits for U 409.014	Recovery = 95.12%			
V 292.402†	99836.8	493.54 µg/L	0.847	0.17%
QC value within limits for V 292.402	Recovery = 98.71%			
Zn 213.857†	87822.9	489.47 µg/L	0.946	0.19%
QC value within limits for Zn 213.857	Recovery = 97.89%			

All analyte(s) passed QC.

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

Autosampler Location: 8  
 Date Collected: 3/31/2010 19:29:42  
 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	145475.6	145475.6	99.7 %		19:30:11
1	Al 396.153Radial†	-75.1	-12.2	-2.2232 µg/L	-2.2232 ppb	19:30:31
1	Ca 317.933Radial†	587.7	29.0	1.6154 µg/L	1.6154 ppb	19:30:31
1	Fe 238.204 Radial†	164.7	17.2	1.0571 µg/L	1.0571 ppb	19:30:31
1	K 766.490 Radial†	1612.2	72.5	26.524 µg/L	26.524 ppb	19:30:11
1	Mg 279.077 IEC†	187.3	-2.8	-1.0689 µg/L	-1.0689 ppb	19:30:31
1	Na 589.592 Radial†	1489.8	203.6	27.794 µg/L	27.794 ppb	19:30:11
1	Sr 421.552†	-307.3	-173.0	-0.3597 µg/L	-0.3597 ppb	19:30:11
1	Sc 361.383	1698492.9	1698492.9	98.852 %		19:31:33
1	Y 371.029	1016683.6	1016683.6	99.025 %		19:31:33
1	Ag 328.068†	3801.1	-246.1	-0.8975 µg/L	-0.8975 ppb	19:31:35
1	As 188.979†	-17.7	2.5	0.7531 µg/L	0.7531 ppb	19:31:55
1	B 249.677†	3427.3	-38.8	-0.5719 µg/L	-0.5719 ppb	19:31:35
1	Ba 233.527†	-135.5	-1.2	-0.0047 µg/L	-0.0047 ppb	19:31:55
1	Be 313.107†	-787.7	267.8	0.0745 µg/L	0.0745 ppb	19:31:35
1	Cd 226.502†	-126.1	-9.3	-0.0586 µg/L	-0.0586 ppb	19:31:55
1	Co 228.616†	-187.3	0.8	0.0098 µg/L	0.0098 ppb	19:31:55
1	Cr 267.716†	185.7	9.3	0.0694 µg/L	0.0694 ppb	19:31:55
1	Cu 324.752†	2920.3	-18.0	-0.0655 µg/L	-0.0655 ppb	19:31:35
1	Mn 257.610†	272.9	38.8	0.0481 µg/L	0.0481 ppb	19:31:55
1	Mo 202.031†	-42.5	-22.9	-0.6735 µg/L	-0.6735 ppb	19:31:55
1	Ni 231.604†	-89.8	-14.3	-0.1646 µg/L	-0.1646 ppb	19:31:55
1	P 214.914†	-7.3	10.6	2.2741 µg/L	2.2741 ppb	19:31:55
1	Pb 220.353†	105.5	20.3	1.1296 µg/L	1.1296 ppb	19:31:55
1	S 181.975 Axial†	107.5	3.7	2.7631 µg/L	2.7631 ppb	19:31:55
1	Sb 206.836†	82.4	2.5	0.2868 µg/L	0.2868 ppb	19:31:55
1	Se 196.026†	15.9	0.8	0.284 µg/L	0.284 ppb	19:31:55
1	SiO2†	1750.8	-4.2	-0.4021 µg/L	-0.4021 ppb	19:31:55
1	Si 251.611†	831.1	4.2	0.0667 µg/L	0.0667 ppb	19:31:35
1	Sn 189.927†	9.7	11.0	0.6833 µg/L	0.6833 ppb	19:31:55
1	Ti 334.940†	1069.9	129.8	0.1193 µg/L	0.1193 ppb	19:31:35
1	Tl 190.801†	-107.7	7.8	0.9584 µg/L	0.9584 ppb	19:31:55
1	U 409.014†	-179.0	88.9	5.2323 µg/L	5.2323 ppb	19:31:35
1	V 292.402†	528.0	130.3	0.6323 µg/L	0.6323 ppb	19:31:35
1	Zn 213.857†	590.7	33.1	0.1869 µg/L	0.1869 ppb	19:31:55
2	Sc RADIAL	144319.0	144319.0	98.9 %		19:30:33
2	Al 396.153Radial†	-78.7	-16.4	-3.0556 µg/L	-3.0556 ppb	19:30:53
2	Ca 317.933Radial†	611.2	57.5	3.2020 µg/L	3.2020 ppb	19:30:53
2	Fe 238.204 Radial†	171.3	25.1	1.5453 µg/L	1.5453 ppb	19:30:53
2	K 766.490 Radial†	1571.9	44.7	16.347 µg/L	16.347 ppb	19:30:33
2	Mg 279.077 IEC†	180.9	-7.8	-2.8873 µg/L	-2.8873 ppb	19:30:53
2	Na 589.592 Radial†	1390.8	115.6	15.771 µg/L	15.771 ppb	19:30:33
2	Sr 421.552†	-219.7	-86.8	-0.1805 µg/L	-0.1805 ppb	19:30:33
2	Sc 361.383	1734133.7	1734133.7	100.93 %		19:31:58
2	Y 371.029	1037702.6	1037702.6	101.07 %		19:31:58
2	Ag 328.068†	3823.7	-302.8	-1.1204 µg/L	-1.1204 ppb	19:32:00
2	As 188.979†	-14.9	5.6	1.6918 µg/L	1.6918 ppb	19:32:20
2	B 249.677†	3536.1	-2.3	-0.0340 µg/L	-0.0340 ppb	19:32:00
2	Ba 233.527†	-136.5	0.6	0.0024 µg/L	0.0024 ppb	19:32:20
2	Be 313.107†	-795.6	276.4	0.0756 µg/L	0.0756 ppb	19:32:00
2	Cd 226.502†	-86.6	32.4	0.2024 µg/L	0.2024 ppb	19:32:20
2	Co 228.616†	-173.2	18.7	0.2305 µg/L	0.2305 ppb	19:32:20
2	Cr 267.716†	178.6	-1.6	-0.0131 µg/L	-0.0131 ppb	19:32:20
2	Cu 324.752†	2720.4	-276.8	-1.0746 µg/L	-1.0746 ppb	19:32:00
2	Mn 257.610†	233.8	-5.6	-0.0068 µg/L	-0.0068 ppb	19:32:20
2	Mo 202.031†	-11.0	9.2	0.2711 µg/L	0.2711 ppb	19:32:20
2	Ni 231.604†	-67.5	9.6	0.1106 µg/L	0.1106 ppb	19:32:20
2	P 214.914†	-23.6	-5.5	-1.1584 µg/L	-1.1584 ppb	19:32:20
2	Pb 220.353†	95.4	8.1	0.4532 µg/L	0.4532 ppb	19:32:20

2	S 181.975 Axial†	102.0	-4.0	-2.9595 µg/L	-2.9595 ppb	19:32:20
2	Sb 206.836†	80.5	-1.1	-0.1231 µg/L	-0.1231 ppb	19:32:20
2	Se 196.026†	11.1	-4.2	-1.53 µg/L	-1.53 ppb	19:32:20
2	SiO2†	1780.0	-11.7	-1.1573 µg/L	-1.1573 ppb	19:32:20
2	Si 251.611†	833.5	-10.8	-0.1648 µg/L	-0.1648 ppb	19:32:00
2	Sn 189.927†	4.9	6.0	0.3748 µg/L	0.3748 ppb	19:32:20
2	Ti 334.940†	959.8	-1.5	-0.0015 µg/L	-0.0015 ppb	19:32:00
2	Tl 190.801†	-121.4	-3.6	-0.4439 µg/L	-0.4439 ppb	19:32:20
2	U 409.014†	-253.2	19.1	1.1109 µg/L	1.1109 ppb	19:32:00
2	V 292.402†	396.6	-10.8	-0.0495 µg/L	-0.0495 ppb	19:32:00
2	Zn 213.857†	608.7	38.7	0.2171 µg/L	0.2171 ppb	19:32:20
3	Sc RADIAL	143412.5	143412.5	98.3 %		19:30:55
3	Al 396.153Radial†	-61.2	0.9	0.1676 µg/L	0.1676 ppb	19:31:15
3	Ca 317.933Radial†	592.5	42.3	2.3561 µg/L	2.3561 ppb	19:31:15
3	Fe 238.204 Radial†	168.4	23.2	1.4324 µg/L	1.4324 ppb	19:31:15
3	K 766.490 Radial†	1616.9	100.5	36.805 µg/L	36.805 ppb	19:30:55
3	Mg 279.077 IEC†	171.0	-16.7	-6.2040 µg/L	-6.2040 ppb	19:31:15
3	Na 589.592 Radial†	1303.8	35.9	4.8761 µg/L	4.8761 ppb	19:30:55
3	Sr 421.552†	-236.1	-105.0	-0.2183 µg/L	-0.2183 ppb	19:30:55
3	Sc 361.383	1715805.0	1715805.0	99.860 %		19:32:22
3	Y 371.029	1026242.1	1026242.1	99.956 %		19:32:22
3	Ag 328.068†	4010.0	-75.8	-0.2851 µg/L	-0.2851 ppb	19:32:24
3	As 188.979†	-13.5	6.8	2.0688 µg/L	2.0688 ppb	19:32:44
3	B 249.677†	3513.5	12.5	0.1850 µg/L	0.1850 ppb	19:32:24
3	Ba 233.527†	-128.9	6.8	0.0274 µg/L	0.0274 ppb	19:32:44
3	Be 313.107†	-697.9	365.9	0.0986 µg/L	0.0986 ppb	19:32:24
3	Cd 226.502†	-106.1	12.0	0.0747 µg/L	0.0747 ppb	19:32:44
3	Co 228.616†	-189.4	0.6	0.0078 µg/L	0.0078 ppb	19:32:44
3	Cr 267.716†	196.4	18.1	0.1446 µg/L	0.1446 ppb	19:32:44
3	Cu 324.752†	2902.2	-65.9	-0.2591 µg/L	-0.2591 ppb	19:32:24
3	Mn 257.610†	273.8	36.9	0.0459 µg/L	0.0459 ppb	19:32:44
3	Mo 202.031†	-16.2	3.9	0.1137 µg/L	0.1137 ppb	19:32:44
3	Ni 231.604†	-88.7	-12.3	-0.1412 µg/L	-0.1412 ppb	19:32:44
3	P 214.914†	-24.0	-6.1	-1.2988 µg/L	-1.2988 ppb	19:32:44
3	Pb 220.353†	103.9	17.7	0.9897 µg/L	0.9897 ppb	19:32:44
3	S 181.975 Axial†	107.4	2.5	1.8491 µg/L	1.8491 ppb	19:32:44
3	Sb 206.836†	83.4	2.7	0.3244 µg/L	0.3244 ppb	19:32:44
3	Se 196.026†	19.7	4.5	1.61 µg/L	1.61 ppb	19:32:44
3	SiO2†	1808.2	35.4	3.4538 µg/L	3.4538 ppb	19:32:44
3	Si 251.611†	977.1	141.9	2.0894 µg/L	2.0894 ppb	19:32:24
3	Sn 189.927†	2.2	3.3	0.2061 µg/L	0.2061 ppb	19:32:44
3	Ti 334.940†	999.8	48.7	0.0474 µg/L	0.0474 ppb	19:32:24
3	Tl 190.801†	-111.5	5.0	0.6198 µg/L	0.6198 ppb	19:32:44
3	U 409.014†	-328.9	-59.4	-3.4761 µg/L	-3.4761 ppb	19:32:24
3	V 292.402†	400.2	-3.0	-0.0153 µg/L	-0.0153 ppb	19:32:24
3	Zn 213.857†	599.5	35.9	0.2028 µg/L	0.2028 ppb	19:32:44

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1716143.9	99.879 %		1.0373			1.04%
Sc RADIAL	144402.4	99.0 %		0.71			0.72%
Y 371.029	1026876.1	100.02 %		1.025			1.02%
Ag 328.068†	-208.2	-0.7677 µg/L		0.43252	-0.7677 ppb	0.43252	56.34%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-9.2	-1.7037 µg/L		1.67317	-1.7037 ppb	1.67317	98.21%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	5.0	1.5046 µg/L		0.67750	1.5046 ppb	0.67750	45.03%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-9.5	-0.1403 µg/L		0.38951	-0.1403 ppb	0.38951	277.57%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	2.1	0.0084 µg/L		0.01681	0.0084 ppb	0.01681	200.54%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	303.4	0.0829 µg/L		0.01359	0.0829 ppb	0.01359	16.40%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	42.9	2.3912 µg/L		0.79388	2.3912 ppb	0.79388	33.20%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	11.7	0.0728 µg/L		0.13050	0.0728 ppb	0.13050	179.15%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	6.7	0.0827 µg/L		0.12800	0.0827 ppb	0.12800	154.81%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	8.6	0.0669 µg/L	0.07889	0.0669 ppb	0.07889 117.87%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	-120.3	-0.4664 µg/L	0.53553	-0.4664 ppb	0.53553 114.82%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	21.8	1.3449 µg/L	0.25554	1.3449 ppb	0.25554 19.00%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	72.5	26.559 µg/L	10.2293	26.559 ppb	10.2293 38.52%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	-9.1	-3.3867 µg/L	2.60377	-3.3867 ppb	2.60377 76.88%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	23.4	0.0291 µg/L	0.03107	0.0291 ppb	0.03107 106.92%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	-3.3	-0.0962 µg/L	0.50606	-0.0962 ppb	0.50606 525.95%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	118.4	16.147 µg/L	11.4636	16.147 ppb	11.4636 70.99%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	-5.7	-0.0651 µg/L	0.15260	-0.0651 ppb	0.15260 234.56%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	-0.3	-0.0611 µg/L	2.02349	-0.0611 ppb	2.02349 >999.9%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	15.4	0.8575 µg/L	0.35710	0.8575 ppb	0.35710 41.64%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	0.7	0.5509 µg/L	3.07426	0.5509 ppb	3.07426 558.02%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	1.4	0.1627 µg/L	0.24819	0.1627 ppb	0.24819 152.55%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	0.3	0.122 µg/L	1.5761	0.122 ppb	1.5761 >999.9%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	6.5	0.6315 µg/L	2.47323	0.6315 ppb	2.47323 391.67%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	45.1	0.6638 µg/L	1.24006	0.6638 ppb	1.24006 186.82%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	6.8	0.4214 µg/L	0.24200	0.4214 ppb	0.24200 57.43%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	-121.6	-0.2528 µg/L	0.09445	-0.2528 ppb	0.09445 37.35%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	59.0	0.0550 µg/L	0.06076	0.0550 ppb	0.06076 110.38%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	3.1	0.3781 µg/L	0.73174	0.3781 ppb	0.73174 193.54%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	16.2	0.9557 µg/L	4.35630	0.9557 ppb	4.35630 455.82%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	38.8	0.1892 µg/L	0.38415	0.1892 ppb	0.38415 203.07%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	35.9	0.2023 µg/L	0.01507	0.2023 ppb	0.01507 7.45%
	QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 16

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 19:48:07

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	142074.6	142074.6	97.4 %		19:48:41
1	Al 396.153Radial†	26307.3	27084.3	4998.9 µg/L	4998.9 ppb	19:48:41
1	Ca 317.933Radial†	86883.3	88680.2	4939.8 µg/L	4939.8 ppb	19:48:41
1	Fe 238.204 Radial†	77361.0	79312.1	4888.3 µg/L	4888.3 ppb	19:48:41
1	K 766.490 Radial†	14600.0	13451.4	4920.7 µg/L	4920.7 ppb	19:48:41
1	Mg 279.077 IEC†	13319.4	13490.1	5033.8 µg/L	5033.8 ppb	19:48:41
1	Na 589.592 Radial†	70751.2	71380.2	9747.0 µg/L	9747.0 ppb	19:48:41
1	Sr 421.552†	226373.4	232651.3	483.63 µg/L	483.63 ppb	19:48:39
1	Sc 361.383	1707292.7	1707292.7	99.364 %		19:48:54
1	Y 371.029	1010159.7	1010159.7	98.390 %		19:48:54
1	Ag 328.068†	133110.0	129870.3	486.98 µg/L	486.98 ppb	19:48:54
1	As 188.979†	1576.3	1606.7	492.97 µg/L	492.97 ppb	19:49:14
1	B 249.677†	35756.1	32479.0	477.32 µg/L	477.32 ppb	19:48:54
1	Ba 233.527†	119643.5	120545.0	486.15 µg/L	486.15 ppb	19:48:54
1	Be 313.107†	1782114.7	1794583.1	488.77 µg/L	488.77 ppb	19:48:54
1	Cd 226.502†	76871.1	77481.2	483.67 µg/L	483.67 ppb	19:48:54
1	Co 228.616†	39104.8	39545.3	488.18 µg/L	488.18 ppb	19:48:54
1	Cr 267.716†	61488.3	61703.2	483.11 µg/L	483.11 ppb	19:48:54
1	Cu 324.752†	126677.7	124516.1	485.41 µg/L	485.41 ppb	19:48:54
1	Mn 257.610†	392328.2	394601.4	488.03 µg/L	488.03 ppb	19:48:54
1	Mo 202.031†	16345.9	16470.5	484.49 µg/L	484.49 ppb	19:49:14
1	Ni 231.604†	41875.3	42219.8	486.13 µg/L	486.13 ppb	19:48:54
1	P 214.914†	11193.1	11282.7	2404.8 µg/L	2404.8 ppb	19:49:14
1	Pb 220.353†	8730.4	8699.9	487.18 µg/L	487.18 ppb	19:49:14
1	S 181.975 Axial†	1383.4	1287.2	959.96 µg/L	959.96 ppb	19:49:14
1	Sb 206.836†	4107.0	4052.4	482.84 µg/L	482.84 ppb	19:49:14
1	Se 196.026†	1342.1	1335.4	485 µg/L	485 ppb	19:49:14
1	SiO2†	55335.6	53914.4	5248.9 µg/L	5248.9 ppb	19:48:54
1	Si 251.611†	167076.9	167309.4	2457.0 µg/L	2457.0 ppb	19:48:54
1	Sn 189.927†	7693.0	7743.4	484.36 µg/L	484.36 ppb	19:49:14
1	Ti 334.940†	519233.7	521603.7	486.68 µg/L	486.68 ppb	19:48:54
1	Tl 190.801†	3814.7	3955.8	493.34 µg/L	493.34 ppb	19:49:14
1	U 409.014†	7610.9	7929.5	493.08 µg/L	493.08 ppb	19:48:54
1	V 292.402†	98525.0	98751.7	488.17 µg/L	488.17 ppb	19:48:54
1	Zn 213.857†	86407.4	86395.9	481.51 µg/L	481.51 ppb	19:48:54
2	Sc RADIAL	141314.4	141314.4	96.8 %		19:48:45
2	Al 396.153Radial†	26070.1	26984.8	4980.3 µg/L	4980.3 ppb	19:48:45
2	Ca 317.933Radial†	86198.1	88452.8	4927.2 µg/L	4927.2 ppb	19:48:45
2	Fe 238.204 Radial†	76905.6	79269.3	4885.7 µg/L	4885.7 ppb	19:48:45
2	K 766.490 Radial†	14469.9	13397.8	4901.1 µg/L	4901.1 ppb	19:48:45
2	Mg 279.077 IEC†	13056.5	13292.2	4960.2 µg/L	4960.2 ppb	19:48:45
2	Na 589.592 Radial†	70248.5	71252.1	9729.5 µg/L	9729.5 ppb	19:48:45
2	Sr 421.552†	230623.8	238291.3	495.36 µg/L	495.36 ppb	19:48:43
2	Sc 361.383	1705432.9	1705432.9	99.256 %		19:49:17
2	Y 371.029	1009468.8	1009468.8	98.323 %		19:49:17
2	Ag 328.068†	133787.0	130698.5	490.05 µg/L	490.05 ppb	19:49:17
2	As 188.979†	1570.4	1602.5	491.73 µg/L	491.73 ppb	19:49:37
2	B 249.677†	35970.0	32733.8	481.06 µg/L	481.06 ppb	19:49:17
2	Ba 233.527†	120220.9	121258.0	489.03 µg/L	489.03 ppb	19:49:17
2	Be 313.107†	1787251.2	1801714.0	490.71 µg/L	490.71 ppb	19:49:17
2	Cd 226.502†	77339.1	78037.0	487.14 µg/L	487.14 ppb	19:49:17
2	Co 228.616†	39270.6	39755.3	490.78 µg/L	490.78 ppb	19:49:17
2	Cr 267.716†	61757.1	62041.5	485.78 µg/L	485.78 ppb	19:49:17
2	Cu 324.752†	126820.0	124798.5	486.50 µg/L	486.50 ppb	19:49:17
2	Mn 257.610†	394508.1	397228.3	491.28 µg/L	491.28 ppb	19:49:17
2	Mo 202.031†	16426.8	16570.0	487.42 µg/L	487.42 ppb	19:49:37
2	Ni 231.604†	41982.9	42374.1	487.91 µg/L	487.91 ppb	19:49:17
2	P 214.914†	11261.9	11364.3	2422.2 µg/L	2422.2 ppb	19:49:37
2	Pb 220.353†	8823.1	8802.9	492.95 µg/L	492.95 ppb	19:49:37

2	S 181.975 Axial†	1396.0	1301.4	970.49 µg/L	970.49 ppb	19:49:37
2	Sb 206.836†	4148.9	4099.2	488.41 µg/L	488.41 ppb	19:49:37
2	Se 196.026†	1355.8	1350.7	490 µg/L	490 ppb	19:49:37
2	SiO2†	55442.9	54083.1	5265.3 µg/L	5265.3 ppb	19:49:17
2	Si 251.611†	167481.5	167900.5	2465.6 µg/L	2465.6 ppb	19:49:17
2	Sn 189.927†	7735.0	7794.1	487.53 µg/L	487.53 ppb	19:49:37
2	Ti 334.940†	520412.2	523360.9	488.34 µg/L	488.34 ppb	19:49:17
2	Tl 190.801†	3830.1	3975.4	495.78 µg/L	495.78 ppb	19:49:37
2	U 409.014†	7376.5	7701.7	479.90 µg/L	479.90 ppb	19:49:17
2	V 292.402†	98853.0	99190.2	490.34 µg/L	490.34 ppb	19:49:17
2	Zn 213.857†	86774.5	86860.6	484.11 µg/L	484.11 ppb	19:49:17
3	Sc RADIAL	143116.0	143116.0	98.1 %		19:48:49
3	Al 396.153Radial†	26236.6	26815.6	4949.0 µg/L	4949.0 ppb	19:48:49
3	Ca 317.933Radial†	87307.0	88462.9	4927.7 µg/L	4927.7 ppb	19:48:49
3	Fe 238.204 Radial†	77796.7	79178.1	4880.1 µg/L	4880.1 ppb	19:48:49
3	K 766.490 Radial†	14380.3	13118.2	4798.8 µg/L	4798.8 ppb	19:48:49
3	Mg 279.077 IEC†	13346.6	13418.3	5007.1 µg/L	5007.1 ppb	19:48:49
3	Na 589.592 Radial†	71057.8	71164.1	9717.6 µg/L	9717.6 ppb	19:48:49
3	Sr 421.552†	230412.2	235077.6	488.67 µg/L	488.67 ppb	19:48:47
3	Sc 361.383	1721387.2	1721387.2	100.18 %		19:49:40
3	Y 371.029	1018897.4	1018897.4	99.241 %		19:49:40
3	Ag 328.068†	134640.8	130301.5	488.57 µg/L	488.57 ppb	19:49:40
3	As 188.979†	1609.9	1627.2	499.20 µg/L	499.20 ppb	19:50:00
3	B 249.677†	36341.2	32768.4	481.57 µg/L	481.57 ppb	19:49:40
3	Ba 233.527†	121012.1	120925.1	487.69 µg/L	487.69 ppb	19:49:40
3	Be 313.107†	1805276.3	1803016.9	491.06 µg/L	491.06 ppb	19:49:40
3	Cd 226.502†	78051.9	78026.4	487.08 µg/L	487.08 ppb	19:49:40
3	Co 228.616†	39637.9	39755.2	490.78 µg/L	490.78 ppb	19:49:40
3	Cr 267.716†	62404.8	62111.3	486.33 µg/L	486.33 ppb	19:49:40
3	Cu 324.752†	128037.0	124829.0	486.61 µg/L	486.61 ppb	19:49:40
3	Mn 257.610†	397828.4	396858.6	490.82 µg/L	490.82 ppb	19:49:40
3	Mo 202.031†	16520.4	16510.1	485.66 µg/L	485.66 ppb	19:50:00
3	Ni 231.604†	42275.1	42273.8	486.75 µg/L	486.75 ppb	19:49:40
3	P 214.914†	11329.3	11326.4	2414.1 µg/L	2414.1 ppb	19:50:00
3	Pb 220.353†	8851.7	8749.0	489.94 µg/L	489.94 ppb	19:50:00
3	S 181.975 Axial†	1397.8	1290.2	962.16 µg/L	962.16 ppb	19:50:00
3	Sb 206.836†	4164.3	4075.8	485.60 µg/L	485.60 ppb	19:50:00
3	Se 196.026†	1362.5	1344.7	488 µg/L	488 ppb	19:50:00
3	SiO2†	55884.7	54006.4	5257.8 µg/L	5257.8 ppb	19:49:40
3	Si 251.611†	169043.3	167895.4	2465.6 µg/L	2465.6 ppb	19:49:40
3	Sn 189.927†	7803.9	7790.6	487.31 µg/L	487.31 ppb	19:50:00
3	Ti 334.940†	525263.4	523343.7	488.32 µg/L	488.32 ppb	19:49:40
3	Tl 190.801†	3853.4	3963.0	494.25 µg/L	494.25 ppb	19:50:00
3	U 409.014†	7327.8	7584.2	473.02 µg/L	473.02 ppb	19:49:40
3	V 292.402†	99734.3	99146.8	490.11 µg/L	490.11 ppb	19:49:40
3	Zn 213.857†	87677.5	86951.6	484.63 µg/L	484.63 ppb	19:49:40

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1711370.9	99.602 %	0.5077			0.51%
Sc RADIAL	142168.3	97.4 %	0.62			0.64%
Y 371.029	1012841.9	98.651 %	0.5119			0.52%
Ag 328.068†	130290.1	488.54 µg/L	1.538	488.54 ppb	1.538	0.31%
QC value within limits for Ag 328.068 Recovery = 97.71%						
Al 396.153Radial†	26961.6	4976.1 µg/L	25.20	4976.1 ppb	25.20	0.51%
QC value within limits for Al 396.153Radial Recovery = 99.52%						
As 188.979†	1612.2	494.63 µg/L	4.004	494.63 ppb	4.004	0.81%
QC value within limits for As 188.979 Recovery = 98.93%						
B 249.677†	32660.4	479.98 µg/L	2.326	479.98 ppb	2.326	0.48%
QC value within limits for B 249.677 Recovery = 96.00%						
Ba 233.527†	120909.3	487.62 µg/L	1.439	487.62 ppb	1.439	0.30%
QC value within limits for Ba 233.527 Recovery = 97.52%						
Be 313.107†	1799771.3	490.18 µg/L	1.233	490.18 ppb	1.233	0.25%
QC value within limits for Be 313.107 Recovery = 98.04%						
Ca 317.933Radial†	88532.0	4931.6 µg/L	7.16	4931.6 ppb	7.16	0.15%
QC value within limits for Ca 317.933Radial Recovery = 98.63%						
Cd 226.502†	77848.2	485.96 µg/L	1.986	485.96 ppb	1.986	0.41%
QC value within limits for Cd 226.502 Recovery = 97.19%						
Co 228.616†	39685.3	489.91 µg/L	1.497	489.91 ppb	1.497	0.31%

QC value within limits for Co 228.616	Recovery = 97.98%				
Cr 267.716†	61952.0	485.07 µg/L	1.718	485.07 ppb	1.718 0.35%
QC value within limits for Cr 267.716	Recovery = 97.01%				
Cu 324.752†	124714.6	486.17 µg/L	0.662	486.17 ppb	0.662 0.14%
QC value within limits for Cu 324.752	Recovery = 97.23%				
Fe 238.204 Radial†	79253.2	4884.7 µg/L	4.22	4884.7 ppb	4.22 0.09%
QC value within limits for Fe 238.204 Radial	Recovery = 97.69%				
K 766.490 Radial†	13322.5	4873.5 µg/L	65.48	4873.5 ppb	65.48 1.34%
QC value within limits for K 766.490 Radial	Recovery = 97.47%				
Mg 279.077 IEC†	13400.2	5000.4 µg/L	37.28	5000.4 ppb	37.28 0.75%
QC value within limits for Mg 279.077 IEC	Recovery = 100.01%				
Mn 257.610†	396229.4	490.04 µg/L	1.761	490.04 ppb	1.761 0.36%
QC value within limits for Mn 257.610	Recovery = 98.01%				
Mo 202.031†	16516.9	485.86 µg/L	1.472	485.86 ppb	1.472 0.30%
QC value within limits for Mo 202.031	Recovery = 97.17%				
Na 589.592 Radial†	71265.4	9731.4 µg/L	14.79	9731.4 ppb	14.79 0.15%
QC value within limits for Na 589.592 Radial	Recovery = 97.31%				
Ni 231.604†	42289.2	486.93 µg/L	0.902	486.93 ppb	0.902 0.19%
QC value within limits for Ni 231.604	Recovery = 97.39%				
P 214.914†	11324.5	2413.7 µg/L	8.72	2413.7 ppb	8.72 0.36%
QC value within limits for P 214.914	Recovery = 96.55%				
Pb 220.353†	8750.6	490.02 µg/L	2.885	490.02 ppb	2.885 0.59%
QC value within limits for Pb 220.353	Recovery = 98.00%				
S 181.975 Axial†	1292.9	964.20 µg/L	5.551	964.20 ppb	5.551 0.58%
QC value within limits for S 181.975 Axial	Recovery = 96.42%				
Sb 206.836†	4075.8	485.62 µg/L	2.784	485.62 ppb	2.784 0.57%
QC value within limits for Sb 206.836	Recovery = 97.12%				
Se 196.026†	1343.6	488 µg/L	2.8	488 ppb	2.8 0.57%
QC value within limits for Se 196.026	Recovery = 97.58%				
SiO2†	54001.3	5257.4 µg/L	8.20	5257.4 ppb	8.20 0.16%
QC value within limits for SiO2	Recovery = 98.31%				
Si 251.611†	167701.8	2462.7 µg/L	4.98	2462.7 ppb	4.98 0.20%
QC value within limits for Si 251.611	Recovery = 98.51%				
Sn 189.927†	7776.0	486.40 µg/L	1.771	486.40 ppb	1.771 0.36%
QC value within limits for Sn 189.927	Recovery = 97.28%				
Sr 421.552†	235340.1	489.22 µg/L	5.882	489.22 ppb	5.882 1.20%
QC value within limits for Sr 421.552	Recovery = 97.84%				
Ti 334.940†	522769.4	487.78 µg/L	0.949	487.78 ppb	0.949 0.19%
QC value within limits for Ti 334.940	Recovery = 97.56%				
Tl 190.801†	3964.8	494.46 µg/L	1.233	494.46 ppb	1.233 0.25%
QC value within limits for Tl 190.801	Recovery = 98.89%				
U 409.014†	7738.5	482.00 µg/L	10.196	482.00 ppb	10.196 2.12%
QC value within limits for U 409.014	Recovery = 96.40%				
V 292.402†	99029.6	489.54 µg/L	1.192	489.54 ppb	1.192 0.24%
QC value within limits for V 292.402	Recovery = 97.91%				
Zn 213.857†	86736.0	483.41 µg/L	1.671	483.41 ppb	1.671 0.35%
QC value within limits for Zn 213.857	Recovery = 96.68%				

All analyte(s) passed QC.



Sequence No.: 17

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 19:50:08

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	143600.6	143600.6	98.4 %		19:50:37
1	Al 396.153Radial†	-51.1	11.3	2.1044 µg/L	2.1044 ppb	19:50:57
1	Ca 317.933Radial†	586.6	35.5	1.9797 µg/L	1.9797 ppb	19:50:57
1	Fe 238.204 Radial†	144.0	-1.8	-0.1088 µg/L	-0.1088 ppb	19:50:57
1	K 766.490 Radial†	1486.8	-33.9	-12.412 µg/L	-12.412 ppb	19:50:37
1	Mg 279.077 IEC†	173.5	-14.4	-5.3870 µg/L	-5.3870 ppb	19:50:57
1	Na 589.592 Radial†	1458.3	191.2	26.130 µg/L	26.130 ppb	19:50:37
1	Sr 421.552†	-289.3	-158.8	-0.3301 µg/L	-0.3301 ppb	19:50:37
1	Sc 361.383	1727301.6	1727301.6	100.53 %		19:51:45
1	Y 371.029	1033229.5	1033229.5	100.64 %		19:51:45
1	Ag 328.068†	3918.0	-194.0	-0.7232 µg/L	-0.7232 ppb	19:51:47
1	As 188.979†	-11.4	9.0	2.7325 µg/L	2.7325 ppb	19:52:07
1	B 249.677†	3507.2	-17.2	-0.2546 µg/L	-0.2546 ppb	19:52:07
1	Ba 233.527†	-159.6	-22.9	-0.0923 µg/L	-0.0923 ppb	19:52:07
1	Be 313.107†	-960.5	109.3	0.0290 µg/L	0.0290 ppb	19:51:47
1	Cd 226.502†	-87.8	30.8	0.1926 µg/L	0.1926 ppb	19:52:07
1	Co 228.616†	-159.6	31.5	0.3887 µg/L	0.3887 ppb	19:52:07
1	Cr 267.716†	221.5	41.8	0.3292 µg/L	0.3292 ppb	19:52:07
1	Cu 324.752†	2909.7	-77.8	-0.3046 µg/L	-0.3046 ppb	19:51:47
1	Mn 257.610†	275.7	37.0	0.0460 µg/L	0.0460 ppb	19:52:07
1	Mo 202.031†	-30.5	-10.3	-0.3033 µg/L	-0.3033 ppb	19:52:07
1	Ni 231.604†	-82.7	-5.8	-0.0664 µg/L	-0.0664 ppb	19:52:07
1	P 214.914†	-17.8	0.3	0.0611 µg/L	0.0611 ppb	19:52:07
1	Pb 220.353†	92.7	5.8	0.3254 µg/L	0.3254 ppb	19:52:07
1	S 181.975 Axial†	92.1	-13.5	-10.016 µg/L	-10.016 ppb	19:52:07
1	Sb 206.836†	70.2	-11.0	-1.3187 µg/L	-1.3187 ppb	19:52:07
1	Se 196.026†	23.8	8.4	3.03 µg/L	3.03 ppb	19:52:07
1	SiO2†	1746.0	-38.6	-3.7620 µg/L	-3.7620 ppb	19:52:07
1	Si 251.611†	804.0	-36.7	-0.5381 µg/L	-0.5381 ppb	19:51:47
1	Sn 189.927†	-0.2	0.9	0.0546 µg/L	0.0546 ppb	19:52:07
1	Ti 334.940†	954.9	-2.7	-0.0011 µg/L	-0.0011 ppb	19:51:47
1	Tl 190.801†	-118.5	-1.2	-0.1445 µg/L	-0.1445 ppb	19:52:07
1	U 409.014†	-315.9	-44.3	-2.6009 µg/L	-2.6009 ppb	19:51:47
1	V 292.402†	377.6	-28.1	-0.1408 µg/L	-0.1408 ppb	19:51:47
1	Zn 213.857†	598.1	30.5	0.1719 µg/L	0.1719 ppb	19:52:07
2	Sc RADIAL	143131.7	143131.7	98.1 %		19:50:59
2	Al 396.153Radial†	-32.2	30.3	5.6296 µg/L	5.6296 ppb	19:51:19
2	Ca 317.933Radial†	576.7	27.4	1.5269 µg/L	1.5269 ppb	19:51:19
2	Fe 238.204 Radial†	158.7	13.7	0.8423 µg/L	0.8423 ppb	19:51:19
2	K 766.490 Radial†	1675.4	163.4	59.819 µg/L	59.819 ppb	19:50:59
2	Mg 279.077 IEC†	212.3	25.7	9.5785 µg/L	9.5785 ppb	19:51:19
2	Na 589.592 Radial†	1429.9	167.0	22.764 µg/L	22.764 ppb	19:50:59
2	Sr 421.552†	-273.0	-143.1	-0.2975 µg/L	-0.2975 ppb	19:50:59
2	Sc 361.383	1718494.8	1718494.8	100.02 %		19:52:09
2	Y 371.029	1028699.8	1028699.8	100.20 %		19:52:09
2	Ag 328.068†	4047.8	-44.2	-0.1507 µg/L	-0.1507 ppb	19:52:11
2	As 188.979†	-18.3	2.1	0.6206 µg/L	0.6206 ppb	19:52:32
2	B 249.677†	3519.8	13.3	0.1962 µg/L	0.1962 ppb	19:52:32
2	Ba 233.527†	-147.0	-11.2	-0.0449 µg/L	-0.0449 ppb	19:52:32
2	Be 313.107†	-767.5	297.4	0.0836 µg/L	0.0836 ppb	19:52:11
2	Cd 226.502†	-96.5	21.7	0.1357 µg/L	0.1357 ppb	19:52:32
2	Co 228.616†	-176.2	14.1	0.1739 µg/L	0.1739 ppb	19:52:32
2	Cr 267.716†	180.3	1.7	0.0063 µg/L	0.0063 ppb	19:52:32
2	Cu 324.752†	2889.0	-83.7	-0.3176 µg/L	-0.3176 ppb	19:52:11
2	Mn 257.610†	264.9	27.6	0.0338 µg/L	0.0338 ppb	19:52:32
2	Mo 202.031†	-22.6	-2.5	-0.0728 µg/L	-0.0728 ppb	19:52:32
2	Ni 231.604†	-57.5	19.1	0.2195 µg/L	0.2195 ppb	19:52:32
2	P 214.914†	4.9	22.9	4.9039 µg/L	4.9039 ppb	19:52:32
2	Pb 220.353†	90.9	4.5	0.2430 µg/L	0.2430 ppb	19:52:32

2	S 181.975 Axial†	92.8	-12.3	-9.1413 µg/L	-9.1413 ppb	19:52:32
2	Sb 206.836†	91.0	10.1	1.2060 µg/L	1.2060 ppb	19:52:32
2	Se 196.026†	23.4	8.1	2.95 µg/L	2.95 ppb	19:52:32
2	SiO2†	1770.3	-5.4	-0.5347 µg/L	-0.5347 ppb	19:52:32
2	Si 251.611†	816.5	-20.2	-0.3025 µg/L	-0.3025 ppb	19:52:11
2	Sn 189.927†	13.1	14.3	0.8887 µg/L	0.8887 ppb	19:52:32
2	Ti 334.940†	824.8	-127.9	-0.1238 µg/L	-0.1238 ppb	19:52:11
2	Tl 190.801†	-110.8	5.9	0.7247 µg/L	0.7247 ppb	19:52:32
2	U 409.014†	-118.9	151.0	8.8426 µg/L	8.8426 ppb	19:52:11
2	V 292.402†	441.7	37.8	0.1896 µg/L	0.1896 ppb	19:52:11
2	Zn 213.857†	569.1	4.5	0.0243 µg/L	0.0243 ppb	19:52:32
3	Sc RADIAL	142404.0	142404.0	97.6 %		19:51:21
3	Al 396.153Radial†	-37.8	24.5	4.5543 µg/L	4.5543 ppb	19:51:41
3	Ca 317.933Radial†	603.4	57.8	3.2194 µg/L	3.2194 ppb	19:51:41
3	Fe 238.204 Radial†	154.3	10.0	0.6188 µg/L	0.6188 ppb	19:51:41
3	K 766.490 Radial†	1584.3	78.7	28.824 µg/L	28.824 ppb	19:51:21
3	Mg 279.077 IEC†	168.4	-18.1	-6.7588 µg/L	-6.7588 ppb	19:51:41
3	Na 589.592 Radial†	1217.4	-43.3	-5.9413 µg/L	-5.9413 ppb	19:51:21
3	Sr 421.552†	-213.0	-83.0	-0.1726 µg/L	-0.1726 ppb	19:51:21
3	Sc 361.383	1725113.7	1725113.7	100.40 %		19:52:34
3	Y 371.029	1032434.0	1032434.0	100.56 %		19:52:34
3	Ag 328.068†	4136.4	28.4	0.1103 µg/L	0.1103 ppb	19:52:36
3	As 188.979†	-21.2	-0.8	-0.2286 µg/L	-0.2286 ppb	19:52:56
3	B 249.677†	3487.8	-32.0	-0.4730 µg/L	-0.4730 ppb	19:52:56
3	Ba 233.527†	-148.1	-11.7	-0.0471 µg/L	-0.0471 ppb	19:52:56
3	Be 313.107†	-958.9	109.7	0.0307 µg/L	0.0307 ppb	19:52:36
3	Cd 226.502†	-100.1	18.5	0.1156 µg/L	0.1156 ppb	19:52:56
3	Co 228.616†	-181.7	9.3	0.1151 µg/L	0.1151 ppb	19:52:56
3	Cr 267.716†	179.3	-0.0	-0.0022 µg/L	-0.0022 ppb	19:52:56
3	Cu 324.752†	2944.1	-39.9	-0.1527 µg/L	-0.1527 ppb	19:52:36
3	Mn 257.610†	258.6	20.3	0.0254 µg/L	0.0254 ppb	19:52:56
3	Mo 202.031†	-33.3	-13.1	-0.3839 µg/L	-0.3839 ppb	19:52:56
3	Ni 231.604†	-89.6	-12.8	-0.1471 µg/L	-0.1471 ppb	19:52:56
3	P 214.914†	-5.5	12.5	2.6899 µg/L	2.6899 ppb	19:52:56
3	Pb 220.353†	86.1	-0.6	-0.0367 µg/L	-0.0367 ppb	19:52:56
3	S 181.975 Axial†	105.1	-0.4	-0.3195 µg/L	-0.3195 ppb	19:52:56
3	Sb 206.836†	78.4	-2.7	-0.3234 µg/L	-0.3234 ppb	19:52:56
3	Se 196.026†	32.5	17.1	6.18 µg/L	6.18 ppb	19:52:56
3	SiO2†	1714.4	-67.8	-6.6340 µg/L	-6.6340 ppb	19:52:56
3	Si 251.611†	948.1	107.7	1.5850 µg/L	1.5850 ppb	19:52:36
3	Sn 189.927†	18.5	19.5	1.2178 µg/L	1.2178 ppb	19:52:56
3	Ti 334.940†	1054.7	98.0	0.0910 µg/L	0.0910 ppb	19:52:36
3	Tl 190.801†	-105.2	11.9	1.4675 µg/L	1.4675 ppb	19:52:56
3	U 409.014†	-221.6	49.1	2.8801 µg/L	2.8801 ppb	19:52:36
3	V 292.402†	431.8	26.3	0.1262 µg/L	0.1262 ppb	19:52:36
3	Zn 213.857†	567.6	1.0	0.0065 µg/L	0.0065 ppb	19:52:56

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1723636.7	100.32 %	0.267			0.27%
Sc RADIAL	143045.4	98.0 %	0.41			0.42%
Y 371.029	1031454.4	100.46 %	0.236			0.23%
Ag 328.068†	-69.9	-0.2546 µg/L	0.42634	-0.2546 ppb	0.42634	167.48%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	22.0	4.0961 µg/L	1.80672	4.0961 ppb	1.80672	44.11%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.4	1.0415 µg/L	1.52480	1.0415 ppb	1.52480	146.41%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-12.0	-0.1771 µg/L	0.34126	-0.1771 ppb	0.34126	192.69%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-15.2	-0.0614 µg/L	0.02676	-0.0614 ppb	0.02676	43.56%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	172.1	0.0478 µg/L	0.03107	0.0478 ppb	0.03107	65.02%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	40.2	2.2420 µg/L	0.87622	2.2420 ppb	0.87622	39.08%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	23.7	0.1480 µg/L	0.03996	0.1480 ppb	0.03996	27.01%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	18.3	0.2259 µg/L	0.14405	0.2259 ppb	0.14405	63.76%

Cr	267.716†	14.5	0.1111 µg/L	0.18892	0.1111 ppb	0.18892	170.01%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cu	324.752†	-67.1	-0.2583 µg/L	0.09167	-0.2583 ppb	0.09167	35.50%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	7.3	0.4508 µg/L	0.49733	0.4508 ppb	0.49733	110.33%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	69.4	25.411 µg/L	36.2364	25.411 ppb	36.2364	142.60%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-2.3	-0.8557 µg/L	9.06232	-0.8557 ppb	9.06232	>999.9%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	28.3	0.0350 µg/L	0.01036	0.0350 ppb	0.01036	29.56%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	-8.6	-0.2533 µg/L	0.16143	-0.2533 ppb	0.16143	63.73%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	105.0	14.318 µg/L	17.6253	14.318 ppb	17.6253	123.10%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	0.2	0.0020 µg/L	0.19262	0.0020 ppb	0.19262	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	11.9	2.5516 µg/L	2.42435	2.5516 ppb	2.42435	95.01%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	3.2	0.1772 µg/L	0.18975	0.1772 ppb	0.18975	107.07%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-8.7	-6.4924 µg/L	5.36374	-6.4924 ppb	5.36374	82.62%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	-1.2	-0.1454 µg/L	1.27176	-0.1454 ppb	1.27176	874.71%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	11.2	4.05 µg/L	1.843	4.05 ppb	1.843	45.47%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		-37.2	-3.6436 µg/L	3.05138	-3.6436 ppb	3.05138	83.75%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	16.9	0.2481 µg/L	1.16372	0.2481 ppb	1.16372	469.00%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	11.6	0.7204 µg/L	0.59961	0.7204 ppb	0.59961	83.23%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-128.3	-0.2667 µg/L	0.08309	-0.2667 ppb	0.08309	31.15%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	-10.9	-0.0113 µg/L	0.10776	-0.0113 ppb	0.10776	953.77%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	5.6	0.6826 µg/L	0.80682	0.6826 ppb	0.80682	118.21%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	51.9	3.0406 µg/L	5.72342	3.0406 ppb	5.72342	188.23%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	12.0	0.0584 µg/L	0.17533	0.0584 ppb	0.17533	300.44%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	12.0	0.0676 µg/L	0.09081	0.0676 ppb	0.09081	134.41%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 27

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 20:18:48

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	143153.1	143153.1	98.1 %		20:19:22
1	Al 396.153Radial†	26168.1	26738.9	4934.8 µg/L	4934.8 ppb	20:19:22
1	Ca 317.933Radial†	87812.2	88954.8	4955.1 µg/L	4955.1 ppb	20:19:22
1	Fe 238.204 Radial†	78188.9	79557.4	4903.4 µg/L	4903.4 ppb	20:19:22
1	K 766.490 Radial†	14678.9	13418.9	4908.8 µg/L	4908.8 ppb	20:19:22
1	Mg 279.077 IEC†	13438.9	13508.9	5040.9 µg/L	5040.9 ppb	20:19:22
1	Na 589.592 Radial†	71303.4	71395.6	9749.1 µg/L	9749.1 ppb	20:19:22
1	Sr 421.552†	231815.5	236447.2	491.52 µg/L	491.52 ppb	20:19:20
1	Sc 361.383	1733210.9	1733210.9	100.87 %		20:19:49
1	Y 371.029	1024566.6	1024566.6	99.793 %		20:19:49
1	Ag 328.068†	135811.2	130544.9	489.48 µg/L	489.48 ppb	20:19:49
1	As 188.979†	1620.4	1626.8	499.06 µg/L	499.06 ppb	20:20:09
1	B 249.677†	36886.7	33061.7	485.90 µg/L	485.90 ppb	20:19:49
1	Ba 233.527†	122122.4	121201.8	488.80 µg/L	488.80 ppb	20:19:49
1	Be 313.107†	1820796.8	1806110.5	491.91 µg/L	491.91 ppb	20:19:49
1	Cd 226.502†	79174.4	78607.7	490.71 µg/L	490.71 ppb	20:19:49
1	Co 228.616†	39967.4	39811.9	491.48 µg/L	491.48 ppb	20:19:49
1	Cr 267.716†	62802.0	62080.2	486.08 µg/L	486.08 ppb	20:19:49
1	Cu 324.752†	129193.6	125103.8	487.69 µg/L	487.69 ppb	20:19:49
1	Mn 257.610†	400949.3	397243.5	491.30 µg/L	491.30 ppb	20:19:49
1	Mo 202.031†	16640.3	16516.4	485.85 µg/L	485.85 ppb	20:20:09
1	Ni 231.604†	42932.4	42637.5	490.94 µg/L	490.94 ppb	20:19:49
1	P 214.914†	11516.5	11434.8	2437.3 µg/L	2437.3 ppb	20:20:09
1	Pb 220.353†	8939.2	8775.5	491.41 µg/L	491.41 ppb	20:20:09
1	S 181.975 Axial†	1432.0	1314.6	980.26 µg/L	980.26 ppb	20:20:09
1	Sb 206.836†	4200.0	4082.8	486.45 µg/L	486.45 ppb	20:20:09
1	Se 196.026†	1380.3	1353.0	491 µg/L	491 ppb	20:20:09
1	SiO2†	56585.0	54320.2	5288.5 µg/L	5288.5 ppb	20:19:49
1	Si 251.611†	171480.3	169160.3	2484.2 µg/L	2484.2 ppb	20:19:49
1	Sn 189.927†	7899.9	7832.7	489.93 µg/L	489.93 ppb	20:20:09
1	Ti 334.940†	528670.3	523144.4	488.13 µg/L	488.13 ppb	20:19:49
1	Tl 190.801†	3879.4	3962.5	494.19 µg/L	494.19 ppb	20:20:09
1	U 409.014†	7456.1	7661.5	477.56 µg/L	477.56 ppb	20:19:49
1	V 292.402†	100505.8	99232.6	490.53 µg/L	490.53 ppb	20:19:49
1	Zn 213.857†	88711.3	87379.4	487.00 µg/L	487.00 ppb	20:19:49
2	Sc RADIAL	145636.2	145636.2	99.8 %		20:19:26
2	Al 396.153Radial†	26516.1	26632.7	4915.0 µg/L	4915.0 ppb	20:19:26
2	Ca 317.933Radial†	89356.1	88975.7	4956.3 µg/L	4956.3 ppb	20:19:26
2	Fe 238.204 Radial†	79820.2	79833.0	4920.4 µg/L	4920.4 ppb	20:19:26
2	K 766.490 Radial†	14884.7	13369.9	4890.9 µg/L	4890.9 ppb	20:19:26
2	Mg 279.077 IEC†	13655.2	13492.0	5034.7 µg/L	5034.7 ppb	20:19:26
2	Na 589.592 Radial†	72574.2	71429.7	9753.8 µg/L	9753.8 ppb	20:19:26
2	Sr 421.552†	229556.2	230154.3	478.44 µg/L	478.44 ppb	20:19:24
2	Sc 361.383	1728845.1	1728845.1	100.62 %		20:20:12
2	Y 371.029	1022537.6	1022537.6	99.596 %		20:20:12
2	Ag 328.068†	135255.7	130332.9	488.71 µg/L	488.71 ppb	20:20:12
2	As 188.979†	1619.6	1630.0	500.04 µg/L	500.04 ppb	20:20:32
2	B 249.677†	36772.6	33040.7	485.59 µg/L	485.59 ppb	20:20:12
2	Ba 233.527†	121898.2	121284.8	489.14 µg/L	489.14 ppb	20:20:12
2	Be 313.107†	1814391.8	1804303.2	491.42 µg/L	491.42 ppb	20:20:12
2	Cd 226.502†	79019.6	78652.0	490.98 µg/L	490.98 ppb	20:20:12
2	Co 228.616†	39865.2	39810.5	491.46 µg/L	491.46 ppb	20:20:12
2	Cr 267.716†	62636.0	62072.4	486.01 µg/L	486.01 ppb	20:20:12
2	Cu 324.752†	128465.8	124703.9	486.15 µg/L	486.15 ppb	20:20:12
2	Mn 257.610†	400168.4	397471.3	491.58 µg/L	491.58 ppb	20:20:12
2	Mo 202.031†	16701.4	16618.8	488.86 µg/L	488.86 ppb	20:20:32
2	Ni 231.604†	42806.4	42619.8	490.74 µg/L	490.74 ppb	20:20:12
2	P 214.914†	11559.5	11506.4	2452.7 µg/L	2452.7 ppb	20:20:32
2	Pb 220.353†	8967.3	8825.8	494.22 µg/L	494.22 ppb	20:20:32

2	S 181.975 Axial†	1438.1	1324.2	987.46 µg/L	987.46 ppb	20:20:32
2	Sb 206.836†	4222.2	4115.5	490.38 µg/L	490.38 ppb	20:20:32
2	Se 196.026†	1378.4	1354.7	492 µg/L	492 ppb	20:20:32
2	SiO2†	56546.5	54423.5	5298.4 µg/L	5298.4 ppb	20:20:12
2	Si 251.611†	170798.4	168911.9	2480.5 µg/L	2480.5 ppb	20:20:12
2	Sn 189.927†	7975.7	7927.8	495.86 µg/L	495.86 ppb	20:20:32
2	Ti 334.940†	527695.2	523498.9	488.46 µg/L	488.46 ppb	20:20:12
2	Tl 190.801†	3917.6	4010.2	500.05 µg/L	500.05 ppb	20:20:32
2	U 409.014†	7647.3	7870.2	489.74 µg/L	489.74 ppb	20:20:12
2	V 292.402†	100177.9	99158.3	490.21 µg/L	490.21 ppb	20:20:12
2	Zn 213.857†	88577.4	87468.5	487.50 µg/L	487.50 ppb	20:20:12
3	Sc RADIAL	145946.5	145946.5	100 %		20:19:30
3	Al 396.153Radial†	26926.1	26986.3	4980.6 µg/L	4980.6 ppb	20:19:30
3	Ca 317.933Radial†	89888.2	89317.4	4975.3 µg/L	4975.3 ppb	20:19:30
3	Fe 238.204 Radial†	79999.4	79842.2	4921.0 µg/L	4921.0 ppb	20:19:30
3	K 766.490 Radial†	15067.7	13521.2	4946.3 µg/L	4946.3 ppb	20:19:30
3	Mg 279.077 IEC†	13820.0	13627.7	5085.2 µg/L	5085.2 ppb	20:19:30
3	Na 589.592 Radial†	72903.4	71604.2	9777.6 µg/L	9777.6 ppb	20:19:30
3	Sr 421.552†	233932.9	234041.4	486.52 µg/L	486.52 ppb	20:19:28
3	Sc 361.383	1729036.7	1729036.7	100.63 %		20:20:35
3	Y 371.029	1022141.3	1022141.3	99.557 %		20:20:35
3	Ag 328.068†	135415.2	130476.4	489.24 µg/L	489.24 ppb	20:20:35
3	As 188.979†	1624.2	1634.3	501.36 µg/L	501.36 ppb	20:20:55
3	B 249.677†	36712.7	32977.1	484.65 µg/L	484.65 ppb	20:20:35
3	Ba 233.527†	121713.3	121087.6	488.34 µg/L	488.34 ppb	20:20:35
3	Be 313.107†	1816122.4	1805823.1	491.83 µg/L	491.83 ppb	20:20:35
3	Cd 226.502†	78922.7	78547.0	490.33 µg/L	490.33 ppb	20:20:35
3	Co 228.616†	39794.6	39735.9	490.54 µg/L	490.54 ppb	20:20:35
3	Cr 267.716†	62716.2	62145.2	486.58 µg/L	486.58 ppb	20:20:35
3	Cu 324.752†	128635.8	124858.6	486.75 µg/L	486.75 ppb	20:20:35
3	Mn 257.610†	399725.7	396987.2	490.98 µg/L	490.98 ppb	20:20:35
3	Mo 202.031†	16642.9	16558.8	487.09 µg/L	487.09 ppb	20:20:55
3	Ni 231.604†	42654.8	42464.4	488.95 µg/L	488.95 ppb	20:20:35
3	P 214.914†	11489.1	11435.1	2437.4 µg/L	2437.4 ppb	20:20:55
3	Pb 220.353†	8938.2	8795.9	492.55 µg/L	492.55 ppb	20:20:55
3	S 181.975 Axial†	1425.7	1311.7	978.16 µg/L	978.16 ppb	20:20:55
3	Sb 206.836†	4196.0	4088.9	487.18 µg/L	487.18 ppb	20:20:55
3	Se 196.026†	1380.4	1356.5	493 µg/L	493 ppb	20:20:55
3	SiO2†	56405.9	54277.6	5284.2 µg/L	5284.2 ppb	20:20:35
3	Si 251.611†	170675.9	168771.4	2478.4 µg/L	2478.4 ppb	20:20:35
3	Sn 189.927†	7906.9	7858.6	491.55 µg/L	491.55 ppb	20:20:55
3	Ti 334.940†	526963.4	522713.5	487.72 µg/L	487.72 ppb	20:20:35
3	Tl 190.801†	3898.2	3990.5	497.62 µg/L	497.62 ppb	20:20:55
3	U 409.014†	7622.6	7844.8	488.24 µg/L	488.24 ppb	20:20:35
3	V 292.402†	100122.2	99092.0	489.87 µg/L	489.87 ppb	20:20:35
3	Zn 213.857†	88619.8	87500.9	487.69 µg/L	487.69 ppb	20:20:35

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1730364.2	100.71 %	0.144			0.14%
Sc RADIAL	144911.9	99.3 %	1.05			1.06%
Y 371.029	1023081.8	99.649 %	0.1267			0.13%
Ag 328.068†	130451.4	489.14 µg/L	0.396	489.14 ppb	0.396	0.08%
QC value within limits for Ag 328.068 Recovery = 97.83%						
Al 396.153Radial†	26786.0	4943.5 µg/L	33.66	4943.5 ppb	33.66	0.68%
QC value within limits for Al 396.153Radial Recovery = 98.87%						
As 188.979†	1630.4	500.15 µg/L	1.155	500.15 ppb	1.155	0.23%
QC value within limits for As 188.979 Recovery = 100.03%						
B 249.677†	33026.5	485.38 µg/L	0.648	485.38 ppb	0.648	0.13%
QC value within limits for B 249.677 Recovery = 97.08%						
Ba 233.527†	121191.4	488.76 µg/L	0.399	488.76 ppb	0.399	0.08%
QC value within limits for Ba 233.527 Recovery = 97.75%						
Be 313.107†	1805412.3	491.72 µg/L	0.263	491.72 ppb	0.263	0.05%
QC value within limits for Be 313.107 Recovery = 98.34%						
Ca 317.933Radial†	89082.6	4962.3 µg/L	11.34	4962.3 ppb	11.34	0.23%
QC value within limits for Ca 317.933Radial Recovery = 99.25%						
Cd 226.502†	78602.2	490.67 µg/L	0.330	490.67 ppb	0.330	0.07%
QC value within limits for Cd 226.502 Recovery = 98.13%						
Co 228.616†	39786.1	491.16 µg/L	0.537	491.16 ppb	0.537	0.11%

QC value within limits for Co 228.616 Recovery = 98.23%							
Cr 267.716†	62099.2	486.22 µg/L	0.311	486.22 ppb	0.311	0.06%	
QC value within limits for Cr 267.716 Recovery = 97.24%							
Cu 324.752†	124888.8	486.86 µg/L	0.777	486.86 ppb	0.777	0.16%	
QC value within limits for Cu 324.752 Recovery = 97.37%							
Fe 238.204 Radial†	79744.2	4914.9 µg/L	9.97	4914.9 ppb	9.97	0.20%	
QC value within limits for Fe 238.204 Radial Recovery = 98.30%							
K 766.490 Radial†	13436.7	4915.3 µg/L	28.26	4915.3 ppb	28.26	0.57%	
QC value within limits for K 766.490 Radial Recovery = 98.31%							
Mg 279.077 IEC†	13542.9	5053.6 µg/L	27.54	5053.6 ppb	27.54	0.54%	
QC value within limits for Mg 279.077 IEC Recovery = 101.07%							
Mn 257.610†	397234.0	491.28 µg/L	0.301	491.28 ppb	0.301	0.06%	
QC value within limits for Mn 257.610 Recovery = 98.26%							
Mo 202.031†	16564.7	487.26 µg/L	1.512	487.26 ppb	1.512	0.31%	
QC value within limits for Mo 202.031 Recovery = 97.45%							
Na 589.592 Radial†	71476.5	9760.2 µg/L	15.27	9760.2 ppb	15.27	0.16%	
QC value within limits for Na 589.592 Radial Recovery = 97.60%							
Ni 231.604†	42573.9	490.21 µg/L	1.097	490.21 ppb	1.097	0.22%	
QC value within limits for Ni 231.604 Recovery = 98.04%							
P 214.914†	11458.8	2442.5 µg/L	8.83	2442.5 ppb	8.83	0.36%	
QC value within limits for P 214.914 Recovery = 97.70%							
Pb 220.353†	8799.1	492.73 µg/L	1.412	492.73 ppb	1.412	0.29%	
QC value within limits for Pb 220.353 Recovery = 98.55%							
S 181.975 Axial†	1316.8	981.96 µg/L	4.877	981.96 ppb	4.877	0.50%	
QC value within limits for S 181.975 Axial Recovery = 98.20%							
Sb 206.836†	4095.7	488.00 µg/L	2.090	488.00 ppb	2.090	0.43%	
QC value within limits for Sb 206.836 Recovery = 97.60%							
Se 196.026†	1354.7	492 µg/L	0.6	492 ppb	0.6	0.13%	
QC value within limits for Se 196.026 Recovery = 98.38%							
SiO2†	54340.4	5290.4 µg/L	7.26	5290.4 ppb	7.26	0.14%	
QC value within limits for SiO2 Recovery = 98.93%							
Si 251.611†	168947.8	2481.0 µg/L	2.92	2481.0 ppb	2.92	0.12%	
QC value within limits for Si 251.611 Recovery = 99.24%							
Sn 189.927†	7873.0	492.45 µg/L	3.064	492.45 ppb	3.064	0.62%	
QC value within limits for Sn 189.927 Recovery = 98.49%							
Sr 421.552†	233547.6	485.49 µg/L	6.601	485.49 ppb	6.601	1.36%	
QC value within limits for Sr 421.552 Recovery = 97.10%							
Ti 334.940†	523118.9	488.10 µg/L	0.369	488.10 ppb	0.369	0.08%	
QC value within limits for Ti 334.940 Recovery = 97.62%							
Tl 190.801†	3987.7	497.29 µg/L	2.942	497.29 ppb	2.942	0.59%	
QC value within limits for Tl 190.801 Recovery = 99.46%							
U 409.014†	7792.1	485.18 µg/L	6.641	485.18 ppb	6.641	1.37%	
QC value within limits for U 409.014 Recovery = 97.04%							
V 292.402†	99160.9	490.20 µg/L	0.333	490.20 ppb	0.333	0.07%	
QC value within limits for V 292.402 Recovery = 98.04%							
Zn 213.857†	87449.6	487.40 µg/L	0.359	487.40 ppb	0.359	0.07%	
QC value within limits for Zn 213.857 Recovery = 97.48%							
All analyte(s) passed QC.							

Sequence No.: 28

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 20:21:03

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	146174.9	146174.9	100 %		20:21:32
1	Al 396.153Radial†	-79.4	-16.1	-2.9762 µg/L	-2.9762 ppb	20:21:52
1	Ca 317.933Radial†	607.9	46.3	2.5767 µg/L	2.5767 ppb	20:21:52
1	Fe 238.204 Radial†	175.5	27.1	1.6726 µg/L	1.6726 ppb	20:21:52
1	K 766.490 Radial†	1577.3	29.9	10.948 µg/L	10.948 ppb	20:21:32
1	Mg 279.077 IEC†	206.8	15.8	5.8733 µg/L	5.8733 ppb	20:21:52
1	Na 589.592 Radial†	1475.9	182.7	24.946 µg/L	24.946 ppb	20:21:32
1	Sr 421.552†	-270.2	-134.5	-0.2796 µg/L	-0.2796 ppb	20:21:32
1	Sc 361.383	1719316.1	1719316.1	100.06 %		20:22:40
1	Y 371.029	1027520.1	1027520.1	100.08 %		20:22:40
1	Ag 328.068†	3648.5	-445.2	-1.6556 µg/L	-1.6556 ppb	20:22:42
1	As 188.979†	-10.6	9.8	2.9605 µg/L	2.9605 ppb	20:23:02
1	B 249.677†	3416.1	-91.9	-1.3568 µg/L	-1.3568 ppb	20:22:42
1	Ba 233.527†	-134.2	1.8	0.0069 µg/L	0.0069 ppb	20:23:02
1	Be 313.107†	-785.4	279.8	0.0750 µg/L	0.0750 ppb	20:22:42
1	Cd 226.502†	-108.1	10.2	0.0635 µg/L	0.0635 ppb	20:23:02
1	Co 228.616†	-170.8	19.6	0.2418 µg/L	0.2418 ppb	20:23:02
1	Cr 267.716†	211.4	32.7	0.2593 µg/L	0.2593 ppb	20:23:02
1	Cu 324.752†	2952.3	-21.8	-0.0873 µg/L	-0.0873 ppb	20:22:42
1	Mn 257.610†	205.0	-32.4	-0.0403 µg/L	-0.0403 ppb	20:23:02
1	Mo 202.031†	-26.7	-6.6	-0.1949 µg/L	-0.1949 ppb	20:23:02
1	Ni 231.604†	-85.9	-9.3	-0.1075 µg/L	-0.1075 ppb	20:23:02
1	P 214.914†	-27.5	-9.5	-2.0307 µg/L	-2.0307 ppb	20:23:02
1	Pb 220.353†	49.6	-36.9	-2.0549 µg/L	-2.0549 ppb	20:23:02
1	S 181.975 Axial†	90.7	-14.4	-10.672 µg/L	-10.672 ppb	20:23:02
1	Sb 206.836†	90.3	9.4	1.1175 µg/L	1.1175 ppb	20:23:02
1	Se 196.026†	14.0	-1.3	-0.483 µg/L	-0.483 ppb	20:23:02
1	SiO2†	1815.4	38.8	3.7882 µg/L	3.7882 ppb	20:22:42
1	Si 251.611†	978.4	141.2	2.0787 µg/L	2.0787 ppb	20:22:42
1	Sn 189.927†	12.7	13.8	0.8612 µg/L	0.8612 ppb	20:23:02
1	Ti 334.940†	944.8	-8.3	-0.0067 µg/L	-0.0067 ppb	20:22:42
1	Tl 190.801†	-123.6	-6.9	-0.8478 µg/L	-0.8478 ppb	20:23:02
1	U 409.014†	-334.8	-64.7	-3.7948 µg/L	-3.7948 ppb	20:22:42
1	V 292.402†	364.6	-39.5	-0.1962 µg/L	-0.1962 ppb	20:22:42
1	Zn 213.857†	609.9	45.1	0.2536 µg/L	0.2536 ppb	20:23:02
2	Sc RADIAL	146261.6	146261.6	100 %		20:21:54
2	Al 396.153Radial†	-54.4	8.9	1.6620 µg/L	1.6620 ppb	20:22:14
2	Ca 317.933Radial†	618.8	56.9	3.1671 µg/L	3.1671 ppb	20:22:14
2	Fe 238.204 Radial†	170.1	21.6	1.3318 µg/L	1.3318 ppb	20:22:14
2	K 766.490 Radial†	1690.5	141.9	51.938 µg/L	51.938 ppb	20:21:54
2	Mg 279.077 IEC†	158.6	-32.4	-12.093 µg/L	-12.093 ppb	20:22:14
2	Na 589.592 Radial†	1436.5	142.5	19.415 µg/L	19.415 ppb	20:21:54
2	Sr 421.552†	-283.2	-147.2	-0.3061 µg/L	-0.3061 ppb	20:21:54
2	Sc 361.383	1736802.1	1736802.1	101.08 %		20:23:04
2	Y 371.029	1037454.3	1037454.3	101.05 %		20:23:04
2	Ag 328.068†	3948.2	-185.4	-0.6882 µg/L	-0.6882 ppb	20:23:06
2	As 188.979†	-24.7	-4.1	-1.2374 µg/L	-1.2374 ppb	20:23:27
2	B 249.677†	3576.8	32.6	0.4812 µg/L	0.4812 ppb	20:23:06
2	Ba 233.527†	-102.2	34.7	0.1396 µg/L	0.1396 ppb	20:23:27
2	Be 313.107†	-962.5	112.5	0.0317 µg/L	0.0317 ppb	20:23:06
2	Cd 226.502†	-108.2	11.1	0.0694 µg/L	0.0694 ppb	20:23:27
2	Co 228.616†	-196.2	-3.8	-0.0464 µg/L	-0.0464 ppb	20:23:27
2	Cr 267.716†	207.6	26.8	0.2073 µg/L	0.2073 ppb	20:23:27
2	Cu 324.752†	2974.7	-29.3	-0.1113 µg/L	-0.1113 ppb	20:23:06
2	Mn 257.610†	216.8	-22.8	-0.0277 µg/L	-0.0277 ppb	20:23:27
2	Mo 202.031†	-26.2	-5.9	-0.1726 µg/L	-0.1726 ppb	20:23:27
2	Ni 231.604†	-83.0	-5.6	-0.0648 µg/L	-0.0648 ppb	20:23:27
2	P 214.914†	-18.2	-0.1	-0.0033 µg/L	-0.0033 ppb	20:23:27
2	Pb 220.353†	96.9	9.5	0.5245 µg/L	0.5245 ppb	20:23:27

2	S 181.975 Axial†	101.1	-5.0	-3.7428 µg/L	-3.7428 ppb	20:23:27
2	Sb 206.836†	77.7	-4.0	-0.4743 µg/L	-0.4743 ppb	20:23:27
2	Se 196.026†	10.0	-5.3	-1.93 µg/L	-1.93 ppb	20:23:27
2	SiO2†	1822.3	27.5	2.6742 µg/L	2.6742 ppb	20:23:06
2	Si 251.611†	856.2	10.5	0.1497 µg/L	0.1497 ppb	20:23:06
2	Sn 189.927†	15.8	16.8	1.0464 µg/L	1.0464 ppb	20:23:27
2	Ti 334.940†	965.6	2.7	0.0021 µg/L	0.0021 ppb	20:23:06
2	Tl 190.801†	-105.1	12.7	1.5599 µg/L	1.5599 ppb	20:23:27
2	U 409.014†	-213.8	58.4	3.3839 µg/L	3.3839 ppb	20:23:06
2	V 292.402†	306.8	-100.3	-0.4881 µg/L	-0.4881 ppb	20:23:06
2	Zn 213.857†	601.0	30.1	0.1695 µg/L	0.1695 ppb	20:23:27
3	Sc RADIAL	145163.3	145163.3	99.5 %		20:22:16
3	Al 396.153Radial†	-66.5	-3.7	-0.6680 µg/L	-0.6680 ppb	20:22:36
3	Ca 317.933Radial†	599.5	42.1	2.3456 µg/L	2.3456 ppb	20:22:36
3	Fe 238.204 Radial†	160.3	13.1	0.8047 µg/L	0.8047 ppb	20:22:36
3	K 766.490 Radial†	1445.8	-91.3	-33.426 µg/L	-33.426 ppb	20:22:16
3	Mg 279.077 IEC†	163.3	-26.5	-9.9007 µg/L	-9.9007 ppb	20:22:36
3	Na 589.592 Radial†	1438.5	155.3	21.242 µg/L	21.242 ppb	20:22:16
3	Sr 421.552†	-217.7	-83.6	-0.1738 µg/L	-0.1738 ppb	20:22:16
3	Sc 361.383	1747018.8	1747018.8	101.68 %		20:23:29
3	Y 371.029	1043372.0	1043372.0	101.62 %		20:23:29
3	Ag 328.068†	3928.6	-227.6	-0.8550 µg/L	-0.8550 ppb	20:23:31
3	As 188.979†	-14.6	6.0	1.8114 µg/L	1.8114 ppb	20:23:51
3	B 249.677†	3628.2	62.5	0.9207 µg/L	0.9207 ppb	20:23:31
3	Ba 233.527†	-150.3	-11.9	-0.0482 µg/L	-0.0482 ppb	20:23:51
3	Be 313.107†	-1063.0	19.3	0.0023 µg/L	0.0023 ppb	20:23:31
3	Cd 226.502†	-104.1	15.8	0.0984 µg/L	0.0984 ppb	20:23:51
3	Co 228.616†	-183.5	9.9	0.1217 µg/L	0.1217 ppb	20:23:51
3	Cr 267.716†	179.0	-2.6	-0.0122 µg/L	-0.0122 ppb	20:23:51
3	Cu 324.752†	3108.9	85.4	0.3239 µg/L	0.3239 ppb	20:23:31
3	Mn 257.610†	215.7	-25.1	-0.0307 µg/L	-0.0307 ppb	20:23:51
3	Mo 202.031†	-32.3	-11.7	-0.3450 µg/L	-0.3450 ppb	20:23:51
3	Ni 231.604†	-84.7	-6.8	-0.0779 µg/L	-0.0779 ppb	20:23:51
3	P 214.914†	-27.0	-8.6	-1.8417 µg/L	-1.8417 ppb	20:23:51
3	Pb 220.353†	93.1	5.2	0.2966 µg/L	0.2966 ppb	20:23:51
3	S 181.975 Axial†	107.7	0.8	0.6238 µg/L	0.6238 ppb	20:23:51
3	Sb 206.836†	73.2	-8.8	-1.0551 µg/L	-1.0551 ppb	20:23:51
3	Se 196.026†	-3.4	-18.6	-6.74 µg/L	-6.74 ppb	20:23:51
3	SiO2†	1790.0	-14.9	-1.4424 µg/L	-1.4424 ppb	20:23:31
3	Si 251.611†	917.7	66.0	0.9787 µg/L	0.9787 ppb	20:23:31
3	Sn 189.927†	-2.4	-1.3	-0.0792 µg/L	-0.0792 ppb	20:23:51
3	Ti 334.940†	1230.7	257.8	0.2458 µg/L	0.2458 ppb	20:23:31
3	Tl 190.801†	-121.9	-3.2	-0.3892 µg/L	-0.3892 ppb	20:23:51
3	U 409.014†	-444.6	-167.4	-9.7866 µg/L	-9.7866 ppb	20:23:31
3	V 292.402†	407.2	-3.3	-0.0267 µg/L	-0.0267 ppb	20:23:31
3	Zn 213.857†	572.9	-1.0	-0.0054 µg/L	-0.0054 ppb	20:23:51

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1734379.0	100.94 %		0.815			0.81%
Sc RADIAL	145866.6	100.0 %		0.42			0.42%
Y 371.029	1036115.5	100.92 %		0.780			0.77%
Ag 328.068†	-286.1	-1.0663 µg/L		0.51712	-1.0663 ppb	0.51712	48.50%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-3.6	-0.6608 µg/L		2.31909	-0.6608 ppb	2.31909	350.98%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	3.9	1.1781 µg/L		2.16942	1.1781 ppb	2.16942	184.14%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	1.0	0.0150 µg/L		1.20824	0.0150 ppb	1.20824	>999.9%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	8.2	0.0328 µg/L		0.09650	0.0328 ppb	0.09650	294.60%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	137.2	0.0363 µg/L		0.03660	0.0363 ppb	0.03660	100.74%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	48.4	2.6965 µg/L		0.42361	2.6965 ppb	0.42361	15.71%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	12.4	0.0771 µg/L		0.01869	0.0771 ppb	0.01869	24.25%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	8.6	0.1057 µg/L		0.14474	0.1057 ppb	0.14474	136.94%



QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	19.0 0.1515 µg/L	0.14414 0.1515 ppb	0.14414 95.17%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	11.4 0.0418 µg/L	0.24463 0.0418 ppb	0.24463 585.58%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	20.6 1.2697 µg/L	0.43727 1.2697 ppb	0.43727 34.44%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	26.8 9.8201 µg/L	42.69298 9.8201 ppb	42.69298 434.75%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-14.4 -5.3735 µg/L	9.80148 -5.3735 ppb	9.80148 182.40%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	-26.8 -0.0329 µg/L	0.00657 -0.0329 ppb	0.00657 19.97%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-8.1 -0.2375 µg/L	0.09374 -0.2375 ppb	0.09374 39.47%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	160.1 21.868 µg/L	2.8179 21.868 ppb	2.8179 12.89%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-7.2 -0.0834 µg/L	0.02187 -0.0834 ppb	0.02187 26.22%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	-6.1 -1.2919 µg/L	1.11996 -1.2919 ppb	1.11996 86.69%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-7.4 -0.4112 µg/L	1.42800 -0.4112 ppb	1.42800 347.25%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-6.2 -4.5969 µg/L	5.69602 -4.5969 ppb	5.69602 123.91%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	-1.1 -0.1373 µg/L	1.12485 -0.1373 ppb	1.12485 819.31%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	-8.4 -3.05 µg/L	3.277 -3.05 ppb	3.277 107.40%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	17.1 1.6733 µg/L	2.75522 1.6733 ppb	2.75522 164.66%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	72.6 1.0690 µg/L	0.96766 1.0690 ppb	0.96766 90.52%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	9.8 0.6095 µg/L	0.60356 0.6095 ppb	0.60356 99.03%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-121.8 -0.2532 µg/L	0.06998 -0.2532 ppb	0.06998 27.64%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	84.1 0.0804 µg/L	0.14329 0.0804 ppb	0.14329 178.21%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	0.9 0.1076 µg/L	1.27840 0.1076 ppb	1.27840 >999.9%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-57.9 -3.3992 µg/L	6.59417 -3.3992 ppb	6.59417 193.99%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-47.7 -0.2370 µg/L	0.23337 -0.2370 ppb	0.23337 98.47%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	24.7 0.1393 µg/L	0.13213 0.1393 ppb	0.13213 94.89%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 38

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 20:46:32

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	142658.3	142658.3	97.8 %		20:47:06
1	Al 396.153Radial†	26173.0	26836.4	4953.1 µg/L	4953.1 ppb	20:47:06
1	Ca 317.933Radial†	86811.8	88242.0	4915.4 µg/L	4915.4 ppb	20:47:06
1	Fe 238.204 Radial†	77308.1	78932.9	4864.9 µg/L	4864.9 ppb	20:47:06
1	K 766.490 Radial†	14453.8	13240.4	4843.5 µg/L	4843.5 ppb	20:47:06
1	Mg 279.077 IEC†	13219.2	13331.7	4974.8 µg/L	4974.8 ppb	20:47:06
1	Na 589.592 Radial†	70981.3	71318.3	9738.6 µg/L	9738.6 ppb	20:47:06
1	Sr 421.552†	229479.6	234877.4	488.26 µg/L	488.26 ppb	20:47:04
1	Sc 361.383	1717986.8	1717986.8	99.987 %		20:47:18
1	Y 371.029	1016974.2	1016974.2	99.054 %		20:47:18
1	Ag 328.068†	133861.9	129788.4	486.66 µg/L	486.66 ppb	20:47:18
1	As 188.979†	1570.9	1591.4	488.31 µg/L	488.31 ppb	20:47:39
1	B 249.677†	35888.7	32387.7	475.97 µg/L	475.97 ppb	20:47:18
1	Ba 233.527†	120089.3	120241.3	484.93 µg/L	484.93 ppb	20:47:18
1	Be 313.107†	1788228.5	1789533.4	487.39 µg/L	487.39 ppb	20:47:18
1	Cd 226.502†	77187.6	77316.2	482.64 µg/L	482.64 ppb	20:47:18
1	Co 228.616†	39259.0	39454.6	487.07 µg/L	487.07 ppb	20:47:18
1	Cr 267.716†	61734.0	61563.8	482.03 µg/L	482.03 ppb	20:47:18
1	Cu 324.752†	127051.0	124095.8	483.76 µg/L	483.76 ppb	20:47:18
1	Mn 257.610†	394153.9	393969.6	487.25 µg/L	487.25 ppb	20:47:18
1	Mo 202.031†	16323.5	16345.7	480.82 µg/L	480.82 ppb	20:47:39
1	Ni 231.604†	42025.4	42107.6	484.84 µg/L	484.84 ppb	20:47:18
1	P 214.914†	11165.4	11184.8	2383.9 µg/L	2383.9 ppb	20:47:39
1	Pb 220.353†	8721.1	8635.9	483.61 µg/L	483.61 ppb	20:47:39
1	S 181.975 Axial†	1384.6	1279.7	954.32 µg/L	954.32 ppb	20:47:39
1	Sb 206.836†	4121.5	4041.3	481.48 µg/L	481.48 ppb	20:47:39
1	Se 196.026†	1330.1	1315.0	478 µg/L	478 ppb	20:47:39
1	SiO2†	55658.0	53890.1	5246.7 µg/L	5246.7 ppb	20:47:18
1	Si 251.611†	168475.5	167661.6	2462.2 µg/L	2462.2 ppb	20:47:18
1	Sn 189.927†	7694.7	7696.9	481.46 µg/L	481.46 ppb	20:47:39
1	Ti 334.940†	521521.0	520638.5	485.79 µg/L	485.79 ppb	20:47:18
1	Tl 190.801†	3795.7	3912.8	488.05 µg/L	488.05 ppb	20:47:39
1	U 409.014†	7470.6	7741.5	482.06 µg/L	482.06 ppb	20:47:18
1	V 292.402†	99032.8	98642.4	487.59 µg/L	487.59 ppb	20:47:18
1	Zn 213.857†	86847.2	86294.4	480.95 µg/L	480.95 ppb	20:47:18
2	Sc RADIAL	142003.0	142003.0	97.3 %		20:47:10
2	Al 396.153Radial†	25928.5	26708.7	4929.4 µg/L	4929.4 ppb	20:47:10
2	Ca 317.933Radial†	86471.0	88301.6	4918.7 µg/L	4918.7 ppb	20:47:10
2	Fe 238.204 Radial†	76877.1	78854.9	4860.1 µg/L	4860.1 ppb	20:47:10
2	K 766.490 Radial†	14481.3	13337.0	4878.8 µg/L	4878.8 ppb	20:47:10
2	Mg 279.077 IEC†	13250.2	13425.9	5009.9 µg/L	5009.9 ppb	20:47:10
2	Na 589.592 Radial†	70794.9	71461.8	9758.2 µg/L	9758.2 ppb	20:47:10
2	Sr 421.552†	230824.3	237342.5	493.38 µg/L	493.38 ppb	20:47:08
2	Sc 361.383	1705978.0	1705978.0	99.288 %		20:47:42
2	Y 371.029	1010151.3	1010151.3	98.389 %		20:47:42
2	Ag 328.068†	132428.5	129287.2	484.78 µg/L	484.78 ppb	20:47:42
2	As 188.979†	1571.4	1603.0	491.82 µg/L	491.82 ppb	20:48:02
2	B 249.677†	35678.8	32428.9	476.59 µg/L	476.59 ppb	20:47:42
2	Ba 233.527†	119061.0	120051.1	484.16 µg/L	484.16 ppb	20:47:42
2	Be 313.107†	1771852.0	1785628.8	486.33 µg/L	486.33 ppb	20:47:42
2	Cd 226.502†	76647.7	77315.8	482.64 µg/L	482.64 ppb	20:47:42
2	Co 228.616†	38849.5	39318.5	485.39 µg/L	485.39 ppb	20:47:42
2	Cr 267.716†	61408.7	61670.7	482.88 µg/L	482.88 ppb	20:47:42
2	Cu 324.752†	125575.7	123504.5	481.46 µg/L	481.46 ppb	20:47:42
2	Mn 257.610†	390410.2	392973.9	486.01 µg/L	486.01 ppb	20:47:42
2	Mo 202.031†	16220.6	16357.1	481.16 µg/L	481.16 ppb	20:48:02
2	Ni 231.604†	41645.6	42020.9	483.84 µg/L	483.84 ppb	20:47:42
2	P 214.914†	11149.7	11247.7	2397.4 µg/L	2397.4 ppb	20:48:02
2	Pb 220.353†	8713.0	8689.1	486.58 µg/L	486.58 ppb	20:48:02

2	S 181.975 Axial†	1386.6	1291.5	963.10 µg/L	963.10 ppb	20:48:02
2	Sb 206.836†	4077.2	4025.7	479.62 µg/L	479.62 ppb	20:48:02
2	Se 196.026†	1343.8	1338.2	486 µg/L	486 ppb	20:48:02
2	SiO2†	55264.2	53885.3	5246.2 µg/L	5246.2 ppb	20:47:42
2	Si 251.611†	166831.6	167191.9	2455.3 µg/L	2455.3 ppb	20:47:42
2	Sn 189.927†	7685.8	7742.0	484.27 µg/L	484.27 ppb	20:48:02
2	Ti 334.940†	517135.3	519893.0	485.10 µg/L	485.10 ppb	20:47:42
2	Tl 190.801†	3798.0	3941.9	491.62 µg/L	491.62 ppb	20:48:02
2	U 409.014†	7240.4	7562.3	471.53 µg/L	471.53 ppb	20:47:42
2	V 292.402†	98205.8	98506.6	486.93 µg/L	486.93 ppb	20:47:42
2	Zn 213.857†	85981.0	86033.4	479.49 µg/L	479.49 ppb	20:47:42
3	Sc RADIAL	143540.2	143540.2	98.4 %		20:47:14
3	Al 396.153Radial†	26297.7	26798.6	4945.9 µg/L	4945.9 ppb	20:47:14
3	Ca 317.933Radial†	87479.0	88374.7	4922.8 µg/L	4922.8 ppb	20:47:14
3	Fe 238.204 Radial†	77829.6	78977.1	4867.7 µg/L	4867.7 ppb	20:47:14
3	K 766.490 Radial†	14541.2	13238.5	4842.8 µg/L	4842.8 ppb	20:47:14
3	Mg 279.077 IEC†	13331.1	13362.3	4986.3 µg/L	4986.3 ppb	20:47:14
3	Na 589.592 Radial†	71517.8	71417.6	9752.2 µg/L	9752.2 ppb	20:47:14
3	Sr 421.552†	229529.4	233485.7	485.36 µg/L	485.36 ppb	20:47:12
3	Sc 361.383	1697774.9	1697774.9	98.810 %		20:48:05
3	Y 371.029	1005288.7	1005288.7	97.916 %		20:48:05
3	Ag 328.068†	132337.3	129839.4	486.83 µg/L	486.83 ppb	20:48:05
3	As 188.979†	1566.3	1605.5	492.60 µg/L	492.60 ppb	20:48:25
3	B 249.677†	35561.4	32483.7	477.39 µg/L	477.39 ppb	20:48:05
3	Ba 233.527†	118631.6	120195.8	484.75 µg/L	484.75 ppb	20:48:05
3	Be 313.107†	1768996.7	1791361.7	487.89 µg/L	487.89 ppb	20:48:05
3	Cd 226.502†	76298.6	77335.5	482.76 µg/L	482.76 ppb	20:48:05
3	Co 228.616†	38681.6	39337.6	485.62 µg/L	485.62 ppb	20:48:05
3	Cr 267.716†	61122.4	61679.8	482.95 µg/L	482.95 ppb	20:48:05
3	Cu 324.752†	125325.9	123862.7	482.85 µg/L	482.85 ppb	20:48:05
3	Mn 257.610†	389691.1	394146.1	487.47 µg/L	487.47 ppb	20:48:05
3	Mo 202.031†	16294.8	16511.0	485.68 µg/L	485.68 ppb	20:48:25
3	Ni 231.604†	41366.1	41940.7	482.92 µg/L	482.92 ppb	20:48:05
3	P 214.914†	11228.3	11381.4	2426.0 µg/L	2426.0 ppb	20:48:25
3	Pb 220.353†	8735.3	8754.1	490.22 µg/L	490.22 ppb	20:48:25
3	S 181.975 Axial†	1387.1	1298.7	968.51 µg/L	968.51 ppb	20:48:25
3	Sb 206.836†	4142.3	4111.4	489.88 µg/L	489.88 ppb	20:48:25
3	Se 196.026†	1325.9	1326.6	482 µg/L	482 ppb	20:48:25
3	SiO2†	55019.2	53906.4	5248.0 µg/L	5248.0 ppb	20:48:05
3	Si 251.611†	166054.7	167217.6	2455.6 µg/L	2455.6 ppb	20:48:05
3	Sn 189.927†	7713.9	7807.9	488.38 µg/L	488.38 ppb	20:48:25
3	Ti 334.940†	515323.4	520575.8	485.74 µg/L	485.74 ppb	20:48:05
3	Tl 190.801†	3789.8	3952.1	492.88 µg/L	492.88 ppb	20:48:25
3	U 409.014†	7240.2	7597.3	473.61 µg/L	473.61 ppb	20:48:05
3	V 292.402†	97793.8	98567.5	487.28 µg/L	487.28 ppb	20:48:05
3	Zn 213.857†	85880.1	86349.8	481.27 µg/L	481.27 ppb	20:48:05

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1707246.6	99.361 %	0.5916			0.60%
Sc RADIAL	142733.8	97.8 %	0.53			0.54%
Y 371.029	1010804.8	98.453 %	0.5717			0.58%
Ag 328.068†	129638.4	486.09 µg/L	1.137	486.09 ppb	1.137	0.23%
QC value within limits for Ag 328.068 Recovery = 97.22%						
Al 396.153Radial†	26781.2	4942.8 µg/L	12.14	4942.8 ppb	12.14	0.25%
QC value within limits for Al 396.153Radial Recovery = 98.86%						
As 188.979†	1600.0	490.91 µg/L	2.283	490.91 ppb	2.283	0.47%
QC value within limits for As 188.979 Recovery = 98.18%						
B 249.677†	32433.4	476.65 µg/L	0.713	476.65 ppb	0.713	0.15%
QC value within limits for B 249.677 Recovery = 95.33%						
Ba 233.527†	120162.7	484.61 µg/L	0.401	484.61 ppb	0.401	0.08%
QC value within limits for Ba 233.527 Recovery = 96.92%						
Be 313.107†	1788841.3	487.20 µg/L	0.798	487.20 ppb	0.798	0.16%
QC value within limits for Be 313.107 Recovery = 97.44%						
Ca 317.933Radial†	88306.1	4919.0 µg/L	3.70	4919.0 ppb	3.70	0.08%
QC value within limits for Ca 317.933Radial Recovery = 98.38%						
Cd 226.502†	77322.5	482.68 µg/L	0.070	482.68 ppb	0.070	0.01%
QC value within limits for Cd 226.502 Recovery = 96.54%						
Co 228.616†	39370.2	486.02 µg/L	0.909	486.02 ppb	0.909	0.19%

QC value within limits for Co 228.616	Recovery = 97.20%				
Cr 267.716†	61638.1	482.62 µg/L	0.509	482.62 ppb	0.509 0.11%
QC value within limits for Cr 267.716	Recovery = 96.52%				
Cu 324.752†	123821.0	482.69 µg/L	1.162	482.69 ppb	1.162 0.24%
QC value within limits for Cu 324.752	Recovery = 96.54%				
Fe 238.204 Radial†	78921.6	4864.2 µg/L	3.82	4864.2 ppb	3.82 0.08%
QC value within limits for Fe 238.204 Radial	Recovery = 97.28%				
K 766.490 Radial†	13272.0	4855.1 µg/L	20.61	4855.1 ppb	20.61 0.42%
QC value within limits for K 766.490 Radial	Recovery = 97.10%				
Mg 279.077 IEC†	13373.3	4990.3 µg/L	17.90	4990.3 ppb	17.90 0.36%
QC value within limits for Mg 279.077 IEC	Recovery = 99.81%				
Mn 257.610†	393696.5	486.91 µg/L	0.783	486.91 ppb	0.783 0.16%
QC value within limits for Mn 257.610	Recovery = 97.38%				
Mo 202.031†	16404.6	482.56 µg/L	2.714	482.56 ppb	2.714 0.56%
QC value within limits for Mo 202.031	Recovery = 96.51%				
Na 589.592 Radial†	71399.2	9749.7 µg/L	10.02	9749.7 ppb	10.02 0.10%
QC value within limits for Na 589.592 Radial	Recovery = 97.50%				
Ni 231.604†	42023.1	483.87 µg/L	0.961	483.87 ppb	0.961 0.20%
QC value within limits for Ni 231.604	Recovery = 96.77%				
P 214.914†	11271.3	2402.4 µg/L	21.48	2402.4 ppb	21.48 0.89%
QC value within limits for P 214.914	Recovery = 96.10%				
Pb 220.353†	8693.1	486.80 µg/L	3.313	486.80 ppb	3.313 0.68%
QC value within limits for Pb 220.353	Recovery = 97.36%				
S 181.975 Axial†	1290.0	961.98 µg/L	7.160	961.98 ppb	7.160 0.74%
QC value within limits for S 181.975 Axial	Recovery = 96.20%				
Sb 206.836†	4059.4	483.66 µg/L	5.466	483.66 ppb	5.466 1.13%
QC value within limits for Sb 206.836	Recovery = 96.73%				
Se 196.026†	1326.6	482 µg/L	4.2	482 ppb	4.2 0.87%
QC value within limits for Se 196.026	Recovery = 96.34%				
SiO2†	53893.9	5247.0 µg/L	0.96	5247.0 ppb	0.96 0.02%
QC value within limits for SiO2	Recovery = 98.12%				
Si 251.611†	167357.0	2457.7 µg/L	3.93	2457.7 ppb	3.93 0.16%
QC value within limits for Si 251.611	Recovery = 98.31%				
Sn 189.927†	7748.9	484.70 µg/L	3.480	484.70 ppb	3.480 0.72%
QC value within limits for Sn 189.927	Recovery = 96.94%				
Sr 421.552†	235235.2	489.00 µg/L	4.060	489.00 ppb	4.060 0.83%
QC value within limits for Sr 421.552	Recovery = 97.80%				
Ti 334.940†	520369.1	485.54 µg/L	0.386	485.54 ppb	0.386 0.08%
QC value within limits for Ti 334.940	Recovery = 97.11%				
Tl 190.801†	3935.6	490.85 µg/L	2.502	490.85 ppb	2.502 0.51%
QC value within limits for Tl 190.801	Recovery = 98.17%				
U 409.014†	7633.7	475.73 µg/L	5.576	475.73 ppb	5.576 1.17%
QC value within limits for U 409.014	Recovery = 95.15%				
V 292.402†	98572.2	487.27 µg/L	0.331	487.27 ppb	0.331 0.07%
QC value within limits for V 292.402	Recovery = 97.45%				
Zn 213.857†	86225.9	480.57 µg/L	0.949	480.57 ppb	0.949 0.20%
QC value within limits for Zn 213.857	Recovery = 96.11%				

All analyte(s) passed QC.

Sequence No.: 39  
 Sample ID: CCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 8  
 Date Collected: 3/31/2010 20:48:32  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Conc. Units	Sample Units	Analysis Time
1	Sc RADIAL	143100.4	143100.4	98.1	%			20:49:01
1	Al 396.153Radial†	-68.2	-6.4	-1.1706	µg/L	-1.1706	ppb	20:49:21
1	Ca 317.933Radial†	633.3	85.2	4.7476	µg/L	4.7476	ppb	20:49:21
1	Fe 238.204 Radial†	162.0	17.1	1.0551	µg/L	1.0551	ppb	20:49:21
1	K 766.490 Radial†	1505.7	-9.3	-3.4148	µg/L	-3.4148	ppb	20:49:01
1	Mg 279.077 IEC†	188.6	1.6	0.6053	µg/L	0.6053	ppb	20:49:21
1	Na 589.592 Radial†	1635.8	377.3	51.550	µg/L	51.550	ppb	20:49:01
1	Sr 421.552†	-135.1	-2.5	-0.0052	µg/L	-0.0052	ppb	20:49:01
1	Sc 361.383	1714287.6	1714287.6	99.771	%			20:50:09
1	Y 371.029	1025603.7	1025603.7	99.894	%			20:50:09
1	Ag 328.068†	3929.0	-153.4	-0.5739	µg/L	-0.5739	ppb	20:50:11
1	As 188.979†	-14.7	5.7	1.7126	µg/L	1.7126	ppb	20:50:31
1	B 249.677†	3483.3	-14.6	-0.2161	µg/L	-0.2161	ppb	20:50:31
1	Ba 233.527†	-124.6	11.0	0.0445	µg/L	0.0445	ppb	20:50:31
1	Be 313.107†	-819.1	243.7	0.0640	µg/L	0.0640	ppb	20:50:11
1	Cd 226.502†	-96.3	21.7	0.1352	µg/L	0.1352	ppb	20:50:31
1	Co 228.616†	-181.4	8.5	0.1049	µg/L	0.1049	ppb	20:50:31
1	Cr 267.716†	159.9	-18.3	-0.1371	µg/L	-0.1371	ppb	20:50:31
1	Cu 324.752†	2837.6	-128.1	-0.5041	µg/L	-0.5041	ppb	20:50:11
1	Mn 257.610†	255.9	19.2	0.0238	µg/L	0.0238	ppb	20:50:31
1	Mo 202.031†	-30.3	-10.3	-0.3020	µg/L	-0.3020	ppb	20:50:31
1	Ni 231.604†	-89.5	-13.2	-0.1520	µg/L	-0.1520	ppb	20:50:31
1	P 214.914†	-14.0	3.9	0.8495	µg/L	0.8495	ppb	20:50:31
1	Pb 220.353†	127.8	41.7	2.3324	µg/L	2.3324	ppb	20:50:31
1	S 181.975 Axial†	105.4	0.6	0.4193	µg/L	0.4193	ppb	20:50:31
1	Sb 206.836†	61.7	-18.9	-2.2534	µg/L	-2.2534	ppb	20:50:31
1	Se 196.026†	16.8	1.6	0.564	µg/L	0.564	ppb	20:50:31
1	SiO2†	1750.1	-21.3	-2.0737	µg/L	-2.0737	ppb	20:50:31
1	Si 251.611†	904.3	69.8	1.0310	µg/L	1.0310	ppb	20:50:11
1	Sn 189.927†	3.7	4.9	0.3040	µg/L	0.3040	ppb	20:50:31
1	Ti 334.940†	1043.2	93.0	0.0902	µg/L	0.0902	ppb	20:50:11
1	Tl 190.801†	-125.6	-9.3	-1.1347	µg/L	-1.1347	ppb	20:50:31
1	U 409.014†	-400.9	-131.9	-7.6954	µg/L	-7.6954	ppb	20:50:11
1	V 292.402†	469.6	66.9	0.3171	µg/L	0.3171	ppb	20:50:11
1	Zn 213.857†	595.1	32.0	0.1811	µg/L	0.1811	ppb	20:50:31
2	Sc RADIAL	142884.5	142884.5	97.9	%			20:49:23
2	Al 396.153Radial†	-69.1	-7.4	-1.3818	µg/L	-1.3818	ppb	20:49:43
2	Ca 317.933Radial†	615.2	67.8	3.7747	µg/L	3.7747	ppb	20:49:43
2	Fe 238.204 Radial†	156.5	11.7	0.7231	µg/L	0.7231	ppb	20:49:43
2	K 766.490 Radial†	1609.8	99.3	36.354	µg/L	36.354	ppb	20:49:23
2	Mg 279.077 IEC†	180.2	-6.7	-2.4821	µg/L	-2.4821	ppb	20:49:43
2	Na 589.592 Radial†	1524.3	266.0	36.311	µg/L	36.311	ppb	20:49:23
2	Sr 421.552†	-167.8	-36.0	-0.0750	µg/L	-0.0750	ppb	20:49:23
2	Sc 361.383	1705708.0	1705708.0	99.272	%			20:50:33
2	Y 371.029	1021576.7	1021576.7	99.502	%			20:50:33
2	Ag 328.068†	3789.2	-274.4	-1.0230	µg/L	-1.0230	ppb	20:50:35
2	As 188.979†	-3.7	16.6	5.0206	µg/L	5.0206	ppb	20:50:56
2	B 249.677†	3504.5	24.3	0.3589	µg/L	0.3589	ppb	20:50:56
2	Ba 233.527†	-135.1	-0.3	-0.0007	µg/L	-0.0007	ppb	20:50:56
2	Be 313.107†	-1027.1	30.1	0.0056	µg/L	0.0056	ppb	20:50:35
2	Cd 226.502†	-117.9	-0.5	-0.0035	µg/L	-0.0035	ppb	20:50:56
2	Co 228.616†	-184.4	4.6	0.0565	µg/L	0.0565	ppb	20:50:56
2	Cr 267.716†	197.3	20.1	0.1648	µg/L	0.1648	ppb	20:50:56
2	Cu 324.752†	2986.4	36.0	0.1330	µg/L	0.1330	ppb	20:50:35
2	Mn 257.610†	208.3	-27.5	-0.0339	µg/L	-0.0339	ppb	20:50:56
2	Mo 202.031†	-10.1	9.9	0.2925	µg/L	0.2925	ppb	20:50:56
2	Ni 231.604†	-71.6	4.4	0.0504	µg/L	0.0504	ppb	20:50:56
2	P 214.914†	-25.7	-7.9	-1.7048	µg/L	-1.7048	ppb	20:50:56
2	Pb 220.353†	88.5	2.8	0.1610	µg/L	0.1610	ppb	20:50:56

2	S 181.975 Axial†	98.5	-5.8	-4.3120 µg/L	-4.3120 ppb	20:50:56
2	Sb 206.836†	86.1	5.9	0.7055 µg/L	0.7055 ppb	20:50:56
2	Se 196.026†	6.1	-9.2	-3.32 µg/L	-3.32 ppb	20:50:56
2	SiO2†	1800.3	38.1	3.7206 µg/L	3.7206 ppb	20:50:56
2	Si 251.611†	941.5	111.8	1.6453 µg/L	1.6453 ppb	20:50:35
2	Sn 189.927†	-2.9	-1.8	-0.1151 µg/L	-0.1151 ppb	20:50:56
2	Ti 334.940†	825.1	-121.4	-0.1096 µg/L	-0.1096 ppb	20:50:35
2	Tl 190.801†	-103.9	12.0	1.4793 µg/L	1.4793 ppb	20:50:56
2	U 409.014†	-414.7	-147.9	-8.6275 µg/L	-8.6275 ppb	20:50:35
2	V 292.402†	468.7	68.3	0.3311 µg/L	0.3311 ppb	20:50:35
2	Zn 213.857†	586.6	26.4	0.1479 µg/L	0.1479 ppb	20:50:56
3	Sc RADIAL	143556.4	143556.4	98.4 %		20:49:45
3	Al 396.153Radial†	-49.6	12.8	2.3684 µg/L	2.3684 ppb	20:50:05
3	Ca 317.933Radial†	619.9	69.5	3.8728 µg/L	3.8728 ppb	20:50:05
3	Fe 238.204 Radial†	160.9	15.5	0.9527 µg/L	0.9527 ppb	20:50:05
3	K 766.490 Radial†	1716.2	199.8	73.139 µg/L	73.139 ppb	20:49:45
3	Mg 279.077 IEC†	179.3	-8.5	-3.1618 µg/L	-3.1618 ppb	20:50:05
3	Na 589.592 Radial†	1571.2	306.3	41.786 µg/L	41.786 ppb	20:49:45
3	Sr 421.552†	-111.1	22.4	0.0465 µg/L	0.0465 ppb	20:49:45
3	Sc 361.383	1721625.0	1721625.0	100.20 %		20:50:58
3	Y 371.029	1030085.4	1030085.4	100.33 %		20:50:58
3	Ag 328.068†	3859.6	-239.4	-0.8861 µg/L	-0.8861 ppb	20:51:00
3	As 188.979†	-27.5	-7.1	-2.1453 µg/L	-2.1453 ppb	20:51:20
3	B 249.677†	3491.5	-21.3	-0.3158 µg/L	-0.3158 ppb	20:51:20
3	Ba 233.527†	-142.3	-6.2	-0.0248 µg/L	-0.0248 ppb	20:51:20
3	Be 313.107†	-950.3	116.3	0.0315 µg/L	0.0315 ppb	20:51:00
3	Cd 226.502†	-122.0	-3.6	-0.0224 µg/L	-0.0224 ppb	20:51:20
3	Co 228.616†	-167.0	23.7	0.2921 µg/L	0.2921 ppb	20:51:20
3	Cr 267.716†	146.9	-32.0	-0.2498 µg/L	-0.2498 ppb	20:51:20
3	Cu 324.752†	3019.8	41.6	0.1616 µg/L	0.1616 ppb	20:51:00
3	Mn 257.610†	238.8	1.0	0.0014 µg/L	0.0014 ppb	20:51:20
3	Mo 202.031†	-20.4	-0.3	-0.0095 µg/L	-0.0095 ppb	20:51:20
3	Ni 231.604†	-92.9	-16.2	-0.1861 µg/L	-0.1861 ppb	20:51:20
3	P 214.914†	-16.8	1.2	0.2638 µg/L	0.2638 ppb	20:51:20
3	Pb 220.353†	96.5	9.9	0.5545 µg/L	0.5545 ppb	20:51:20
3	S 181.975 Axial†	97.9	-7.4	-5.4692 µg/L	-5.4692 ppb	20:51:20
3	Sb 206.836†	70.1	-10.9	-1.2853 µg/L	-1.2853 ppb	20:51:20
3	Se 196.026†	24.0	8.7	3.13 µg/L	3.13 ppb	20:51:20
3	SiO2†	1761.3	-17.6	-1.7243 µg/L	-1.7243 ppb	20:51:20
3	Si 251.611†	890.7	52.3	0.7682 µg/L	0.7682 ppb	20:51:00
3	Sn 189.927†	7.5	8.6	0.5361 µg/L	0.5361 ppb	20:51:20
3	Ti 334.940†	901.9	-52.4	-0.0483 µg/L	-0.0483 ppb	20:51:00
3	Tl 190.801†	-111.0	5.9	0.7212 µg/L	0.7212 ppb	20:51:20
3	U 409.014†	-279.5	-9.1	-0.5238 µg/L	-0.5238 ppb	20:51:00
3	V 292.402†	424.3	19.7	0.0944 µg/L	0.0944 ppb	20:51:00
3	Zn 213.857†	577.4	11.9	0.0677 µg/L	0.0677 ppb	20:51:20

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1713873.5	99.747 %	0.4637			0.46%
Sc RADIAL	143180.4	98.1 %	0.24			0.24%
Y 371.029	1025755.3	99.909 %	0.4146			0.41%
Ag 328.068†	-222.4	-0.8276 µg/L	0.23017	-0.8276 ppb	0.23017	27.81%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-0.3	-0.0614 µg/L	2.10685	-0.0614 ppb	2.10685	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	5.1	1.5293 µg/L	3.58647	1.5293 ppb	3.58647	234.51%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-3.9	-0.0576 µg/L	0.36418	-0.0576 ppb	0.36418	631.86%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	1.5	0.0063 µg/L	0.03518	0.0063 ppb	0.03518	557.71%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	130.0	0.0337 µg/L	0.02929	0.0337 ppb	0.02929	86.91%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	74.2	4.1317 µg/L	0.53563	4.1317 ppb	0.53563	12.96%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	5.9	0.0364 µg/L	0.08602	0.0364 ppb	0.08602	236.18%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	12.3	0.1512 µg/L	0.12445	0.1512 ppb	0.12445	82.31%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-10.0 -0.0740 µg/L	0.21436 -0.0740 ppb	0.21436 289.62%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-16.8 -0.0698 µg/L	0.37636 -0.0698 ppb	0.37636 538.93%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	14.8 0.9103 µg/L	0.16999 0.9103 ppb	0.16999 18.67%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	96.6 35.359 µg/L	38.2865 35.359 ppb	38.2865 108.28%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-4.5 -1.6795 µg/L	2.00766 -1.6795 ppb	2.00766 119.54%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	-2.4 -0.0029 µg/L	0.02906 -0.0029 ppb	0.02906 >999.9%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-0.2 -0.0064 µg/L	0.29725 -0.0064 ppb	0.29725 >999.9%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	316.6 43.216 µg/L	7.7194 43.216 ppb	7.7194 17.86%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-8.3 -0.0959 µg/L	0.12783 -0.0959 ppb	0.12783 133.28%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	-0.9 -0.1972 µg/L	1.33806 -0.1972 ppb	1.33806 678.62%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	18.1 1.0159 µg/L	1.15693 1.0159 ppb	1.15693 113.88%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-4.2 -3.1206 µg/L	3.11977 -3.1206 ppb	3.11977 99.97%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	-8.0 -0.9444 µg/L	1.50862 -0.9444 ppb	1.50862 159.74%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	0.4 0.124 µg/L	3.2508 0.124 ppb	3.2508 >999.9%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	-0.2 -0.0258 µg/L	3.24918 -0.0258 ppb	3.24918 >999.9%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	78.0 1.1482 µg/L	0.45012 1.1482 ppb	0.45012 39.20%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	3.9 0.2417 µg/L	0.33003 0.2417 ppb	0.33003 136.56%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-5.4 -0.0112 µg/L	0.06093 -0.0112 ppb	0.06093 542.16%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	-26.9 -0.0226 µg/L	0.10236 -0.0226 ppb	0.10236 453.52%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	2.9 0.3552 µg/L	1.34488 0.3552 ppb	1.34488 378.59%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-96.3 -5.6156 µg/L	4.43418 -5.6156 ppb	4.43418 78.96%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	51.6 0.2475 µg/L	0.13284 0.2475 ppb	0.13284 53.67%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	23.4 0.1323 µg/L	0.05829 0.1323 ppb	0.05829 44.08%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 50

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 21:16:09

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	140518.4	140518.4	96.3 %		21:16:42
1	Al 396.153Radial†	25783.9	26840.0	4953.4 µg/L	4953.4 ppb	21:16:42
1	Ca 317.933Radial†	85524.3	88257.2	4916.3 µg/L	4916.3 ppb	21:16:42
1	Fe 238.204 Radial†	76323.1	79114.2	4876.1 µg/L	4876.1 ppb	21:16:42
1	K 766.490 Radial†	14404.9	13414.9	4907.4 µg/L	4907.4 ppb	21:16:42
1	Mg 279.077 IEC†	13081.5	13394.6	4998.4 µg/L	4998.4 ppb	21:16:42
1	Na 589.592 Radial†	70242.3	71656.5	9784.8 µg/L	9784.8 ppb	21:16:42
1	Sr 421.552†	226316.6	235167.3	488.86 µg/L	488.86 ppb	21:16:40
1	Sc 361.383	1669103.9	1669103.9	97.142 %		21:16:55
1	Y 371.029	989417.5	989417.5	96.370 %		21:16:55
1	Ag 328.068†	129569.0	129290.2	484.77 µg/L	484.77 ppb	21:16:55
1	As 188.979†	1551.4	1617.4	496.19 µg/L	496.19 ppb	21:17:15
1	B 249.677†	34680.4	32195.0	473.14 µg/L	473.14 ppb	21:16:55
1	Ba 233.527†	116237.8	119794.0	483.13 µg/L	483.13 ppb	21:16:55
1	Be 313.107†	1725182.2	1777010.7	483.98 µg/L	483.98 ppb	21:16:55
1	Cd 226.502†	74430.6	76738.9	479.03 µg/L	479.03 ppb	21:16:55
1	Co 228.616†	37838.5	39142.2	483.21 µg/L	483.21 ppb	21:16:55
1	Cr 267.716†	59798.9	61379.9	480.59 µg/L	480.59 ppb	21:16:55
1	Cu 324.752†	122989.1	123635.9	481.97 µg/L	481.97 ppb	21:16:55
1	Mn 257.610†	381507.5	392496.1	485.42 µg/L	485.42 ppb	21:16:55
1	Mo 202.031†	16149.2	16644.5	489.61 µg/L	489.61 ppb	21:17:15
1	Ni 231.604†	40427.6	41693.7	480.07 µg/L	480.07 ppb	21:16:55
1	P 214.914†	11040.4	11383.2	2426.3 µg/L	2426.3 ppb	21:17:15
1	Pb 220.353†	8616.0	8783.1	491.85 µg/L	491.85 ppb	21:17:15
1	S 181.975 Axial†	1370.2	1305.5	973.53 µg/L	973.53 ppb	21:17:15
1	Sb 206.836†	4075.4	4114.5	490.34 µg/L	490.34 ppb	21:17:15
1	Se 196.026†	1325.8	1349.6	490 µg/L	490 ppb	21:17:15
1	SiO2†	53789.9	53597.3	5217.7 µg/L	5217.7 ppb	21:16:55
1	Si 251.611†	162739.1	166691.2	2447.8 µg/L	2447.8 ppb	21:16:55
1	Sn 189.927†	7604.8	7829.7	489.73 µg/L	489.73 ppb	21:17:15
1	Ti 334.940†	504929.9	518835.1	484.11 µg/L	484.11 ppb	21:16:55
1	Tl 190.801†	3752.3	3979.4	496.21 µg/L	496.21 ppb	21:17:15
1	U 409.014†	7197.9	7679.6	478.26 µg/L	478.26 ppb	21:16:55
1	V 292.402†	95634.0	98044.3	484.76 µg/L	484.76 ppb	21:16:55
1	Zn 213.857†	83598.9	85494.4	476.49 µg/L	476.49 ppb	21:16:55
2	Sc RADIAL	141583.7	141583.7	97.0 %		21:16:47
2	Al 396.153Radial†	25881.7	26739.3	4934.9 µg/L	4934.9 ppb	21:16:47
2	Ca 317.933Radial†	85790.3	87863.1	4894.3 µg/L	4894.3 ppb	21:16:47
2	Fe 238.204 Radial†	76348.3	78543.7	4841.0 µg/L	4841.0 ppb	21:16:47
2	K 766.490 Radial†	14349.6	13245.3	4845.3 µg/L	4845.3 ppb	21:16:47
2	Mg 279.077 IEC†	13161.7	13375.0	4991.0 µg/L	4991.0 ppb	21:16:47
2	Na 589.592 Radial†	70371.9	71241.2	9728.1 µg/L	9728.1 ppb	21:16:47
2	Sr 421.552†	225549.9	232608.6	483.54 µg/L	483.54 ppb	21:16:44
2	Sc 361.383	1700896.9	1700896.9	98.992 %		21:17:18
2	Y 371.029	1006820.6	1006820.6	98.065 %		21:17:18
2	Ag 328.068†	132249.7	129505.0	485.59 µg/L	485.59 ppb	21:17:18
2	As 188.979†	1564.2	1600.5	491.07 µg/L	491.07 ppb	21:17:38
2	B 249.677†	35612.0	32468.8	477.17 µg/L	477.17 ppb	21:17:18
2	Ba 233.527†	119305.1	120655.9	486.60 µg/L	486.60 ppb	21:17:18
2	Be 313.107†	1771257.8	1790359.7	487.62 µg/L	487.62 ppb	21:17:18
2	Cd 226.502†	76605.7	77504.0	483.82 µg/L	483.82 ppb	21:17:18
2	Co 228.616†	38857.8	39443.8	486.94 µg/L	486.94 ppb	21:17:18
2	Cr 267.716†	61346.5	61792.6	483.83 µg/L	483.83 ppb	21:17:18
2	Cu 324.752†	126079.4	124391.1	484.90 µg/L	484.90 ppb	21:17:18
2	Mn 257.610†	390683.2	394424.4	487.81 µg/L	487.81 ppb	21:17:18
2	Mo 202.031†	16315.1	16501.3	485.39 µg/L	485.39 ppb	21:17:38
2	Ni 231.604†	41564.0	42063.8	484.33 µg/L	484.33 ppb	21:17:18
2	P 214.914†	11170.5	11302.2	2409.0 µg/L	2409.0 ppb	21:17:38
2	Pb 220.353†	8716.3	8718.6	488.24 µg/L	488.24 ppb	21:17:38



2	S 181.975 Axial†	1376.8	1285.7	958.84 µg/L	958.84 ppb	21:17:38
2	Sb 206.836†	4095.5	4056.4	483.32 µg/L	483.32 ppb	21:17:38
2	Se 196.026†	1341.9	1340.3	487 µg/L	487 ppb	21:17:38
2	SiO2†	55368.1	54156.5	5272.5 µg/L	5272.5 ppb	21:17:18
2	Si 251.611†	166631.9	167492.1	2459.6 µg/L	2459.6 ppb	21:17:18
2	Sn 189.927†	7705.9	7785.5	486.98 µg/L	486.98 ppb	21:17:38
2	Ti 334.940†	516370.1	520675.9	485.83 µg/L	485.83 ppb	21:17:18
2	Tl 190.801†	3799.4	3954.7	493.19 µg/L	493.19 ppb	21:17:38
2	U 409.014†	7223.0	7566.5	471.79 µg/L	471.79 ppb	21:17:18
2	V 292.402†	97908.7	98501.9	486.96 µg/L	486.96 ppb	21:17:18
2	Zn 213.857†	86115.5	86428.0	481.70 µg/L	481.70 ppb	21:17:18
3	Sc RADIAL	140610.0	140610.0	96.4 %		21:16:51
3	Al 396.153Radial†	25934.1	26978.5	4979.2 µg/L	4979.2 ppb	21:16:51
3	Ca 317.933Radial†	85400.8	88071.2	4905.9 µg/L	4905.9 ppb	21:16:51
3	Fe 238.204 Radial†	76011.3	78739.0	4853.0 µg/L	4853.0 ppb	21:16:51
3	K 766.490 Radial†	14473.0	13475.8	4929.7 µg/L	4929.7 ppb	21:16:51
3	Mg 279.077 IEC†	13077.3	13381.4	4993.4 µg/L	4993.4 ppb	21:16:51
3	Na 589.592 Radial†	70342.7	71713.3	9792.5 µg/L	9792.5 ppb	21:16:51
3	Sr 421.552†	223908.2	232514.8	483.35 µg/L	483.35 ppb	21:16:49
3	Sc 361.383	1690270.1	1690270.1	98.373 %		21:17:42
3	Y 371.029	1001275.7	1001275.7	97.525 %		21:17:42
3	Ag 328.068†	131972.5	130063.1	487.66 µg/L	487.66 ppb	21:17:42
3	As 188.979†	1560.3	1606.5	492.89 µg/L	492.89 ppb	21:18:02
3	B 249.677†	35493.5	32574.4	478.72 µg/L	478.72 ppb	21:17:42
3	Ba 233.527†	118281.0	120372.5	485.46 µg/L	485.46 ppb	21:17:42
3	Be 313.107†	1758207.7	1788343.2	487.07 µg/L	487.07 ppb	21:17:42
3	Cd 226.502†	76039.5	77415.0	483.26 µg/L	483.26 ppb	21:17:42
3	Co 228.616†	38697.3	39527.5	487.97 µg/L	487.97 ppb	21:17:42
3	Cr 267.716†	61022.9	61853.3	484.31 µg/L	484.31 ppb	21:17:42
3	Cu 324.752†	124975.7	124069.9	483.65 µg/L	483.65 ppb	21:17:42
3	Mn 257.610†	388217.6	394399.3	487.78 µg/L	487.78 ppb	21:17:42
3	Mo 202.031†	16264.5	16553.5	486.93 µg/L	486.93 ppb	21:18:02
3	Ni 231.604†	41303.6	42063.1	484.33 µg/L	484.33 ppb	21:17:42
3	P 214.914†	11171.7	11374.3	2424.5 µg/L	2424.5 ppb	21:18:02
3	Pb 220.353†	8697.8	8755.2	490.29 µg/L	490.29 ppb	21:18:02
3	S 181.975 Axial†	1394.3	1312.3	978.61 µg/L	978.61 ppb	21:18:02
3	Sb 206.836†	4104.7	4091.7	487.54 µg/L	487.54 ppb	21:18:02
3	Se 196.026†	1335.6	1342.4	487 µg/L	487 ppb	21:18:02
3	SiO2†	54853.9	53985.5	5255.7 µg/L	5255.7 ppb	21:17:42
3	Si 251.611†	165452.6	167351.7	2457.5 µg/L	2457.5 ppb	21:17:42
3	Sn 189.927†	7688.5	7816.7	488.93 µg/L	488.93 ppb	21:18:02
3	Ti 334.940†	512939.3	520467.8	485.64 µg/L	485.64 ppb	21:17:42
3	Tl 190.801†	3797.1	3976.5	495.87 µg/L	495.87 ppb	21:18:02
3	U 409.014†	7116.8	7504.3	468.21 µg/L	468.21 ppb	21:17:42
3	V 292.402†	97506.3	98714.7	488.01 µg/L	488.01 ppb	21:17:42
3	Zn 213.857†	85518.8	86368.4	481.37 µg/L	481.37 ppb	21:17:42

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1686757.0	98.169 %	0.9420			0.96%
Sc RADIAL	140904.0	96.6 %	0.40			0.42%
Y 371.029	999171.3	97.320 %	0.8659			0.89%
Ag 328.068†	129619.5	486.01 µg/L	1.489	486.01 ppb	1.489	0.31%
QC value within limits for Ag 328.068 Recovery = 97.20%						
Al 396.153Radial†	26852.6	4955.8 µg/L	22.23	4955.8 ppb	22.23	0.45%
QC value within limits for Al 396.153Radial Recovery = 99.12%						
As 188.979†	1608.1	493.38 µg/L	2.596	493.38 ppb	2.596	0.53%
QC value within limits for As 188.979 Recovery = 98.68%						
B 249.677†	32412.8	476.35 µg/L	2.879	476.35 ppb	2.879	0.60%
QC value within limits for B 249.677 Recovery = 95.27%						
Ba 233.527†	120274.1	485.06 µg/L	1.771	485.06 ppb	1.771	0.37%
QC value within limits for Ba 233.527 Recovery = 97.01%						
Be 313.107†	1785237.9	486.22 µg/L	1.958	486.22 ppb	1.958	0.40%
QC value within limits for Be 313.107 Recovery = 97.24%						
Ca 317.933Radial†	88063.9	4905.5 µg/L	10.98	4905.5 ppb	10.98	0.22%
QC value within limits for Ca 317.933Radial Recovery = 98.11%						
Cd 226.502†	77219.3	482.04 µg/L	2.617	482.04 ppb	2.617	0.54%
QC value within limits for Cd 226.502 Recovery = 96.41%						
Co 228.616†	39371.2	486.04 µg/L	2.502	486.04 ppb	2.502	0.51%

QC value within limits for Co 228.616 Recovery = 97.21%							
Cr 267.716†	61675.3	482.91 µg/L	2.021	482.91 ppb	2.021	0.42%	
QC value within limits for Cr 267.716 Recovery = 96.58%							
Cu 324.752†	124032.3	483.51 µg/L	1.468	483.51 ppb	1.468	0.30%	
QC value within limits for Cu 324.752 Recovery = 96.70%							
Fe 238.204 Radial†	78799.0	4856.7 µg/L	17.87	4856.7 ppb	17.87	0.37%	
QC value within limits for Fe 238.204 Radial Recovery = 97.13%							
K 766.490 Radial†	13378.7	4894.1 µg/L	43.71	4894.1 ppb	43.71	0.89%	
QC value within limits for K 766.490 Radial Recovery = 97.88%							
Mg 279.077 IEC†	13383.7	4994.3 µg/L	3.76	4994.3 ppb	3.76	0.08%	
QC value within limits for Mg 279.077 IEC Recovery = 99.89%							
Mn 257.610†	393773.3	487.00 µg/L	1.369	487.00 ppb	1.369	0.28%	
QC value within limits for Mn 257.610 Recovery = 97.40%							
Mo 202.031†	16566.4	487.31 µg/L	2.131	487.31 ppb	2.131	0.44%	
QC value within limits for Mo 202.031 Recovery = 97.46%							
Na 589.592 Radial†	71537.0	9768.5 µg/L	35.17	9768.5 ppb	35.17	0.36%	
QC value within limits for Na 589.592 Radial Recovery = 97.68%							
Ni 231.604†	41940.2	482.91 µg/L	2.458	482.91 ppb	2.458	0.51%	
QC value within limits for Ni 231.604 Recovery = 96.58%							
P 214.914†	11353.2	2419.9 µg/L	9.51	2419.9 ppb	9.51	0.39%	
QC value within limits for P 214.914 Recovery = 96.80%							
Pb 220.353†	8752.3	490.13 µg/L	1.809	490.13 ppb	1.809	0.37%	
QC value within limits for Pb 220.353 Recovery = 98.03%							
S 181.975 Axial†	1301.2	970.33 µg/L	10.267	970.33 ppb	10.267	1.06%	
QC value within limits for S 181.975 Axial Recovery = 97.03%							
Sb 206.836†	4087.6	487.07 µg/L	3.532	487.07 ppb	3.532	0.73%	
QC value within limits for Sb 206.836 Recovery = 97.41%							
Se 196.026†	1344.1	488 µg/L	1.8	488 ppb	1.8	0.36%	
QC value within limits for Se 196.026 Recovery = 97.61%							
SiO2†	53913.1	5248.7 µg/L	28.09	5248.7 ppb	28.09	0.54%	
QC value within limits for SiO2 Recovery = 98.15%							
Si 251.611†	167178.3	2455.0 µg/L	6.34	2455.0 ppb	6.34	0.26%	
QC value within limits for Si 251.611 Recovery = 98.20%							
Sn 189.927†	7810.6	488.55 µg/L	1.414	488.55 ppb	1.414	0.29%	
QC value within limits for Sn 189.927 Recovery = 97.71%							
Sr 421.552†	233430.2	485.25 µg/L	3.129	485.25 ppb	3.129	0.64%	
QC value within limits for Sr 421.552 Recovery = 97.05%							
Ti 334.940†	51992.9	485.19 µg/L	0.943	485.19 ppb	0.943	0.19%	
QC value within limits for Ti 334.940 Recovery = 97.04%							
Tl 190.801†	3970.2	495.09 µg/L	1.653	495.09 ppb	1.653	0.33%	
QC value within limits for Tl 190.801 Recovery = 99.02%							
U 409.014†	7583.5	472.76 µg/L	5.091	472.76 ppb	5.091	1.08%	
QC value within limits for U 409.014 Recovery = 94.55%							
V 292.402†	98420.3	486.58 µg/L	1.660	486.58 ppb	1.660	0.34%	
QC value within limits for V 292.402 Recovery = 97.32%							
Zn 213.857†	86097.0	479.85 µg/L	2.921	479.85 ppb	2.921	0.61%	
QC value within limits for Zn 213.857 Recovery = 95.97%							
All analyte(s) passed QC.							

Sequence No.: 51  
 Sample ID: CCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 8  
 Date Collected: 3/31/2010 21:18:10  
 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	142340.5	142340.5	97.5 %		21:18:39
1	Al 396.153Radial†	-77.4	-16.2	-2.9808 µg/L	-2.9808 ppb	21:18:59
1	Ca 317.933Radial†	613.3	68.2	3.7996 µg/L	3.7996 ppb	21:18:59
1	Fe 238.204 Radial†	174.0	30.3	1.8673 µg/L	1.8673 ppb	21:18:59
1	K 766.490 Radial†	1617.0	113.0	41.366 µg/L	41.366 ppb	21:18:39
1	Mg 279.077 IEC†	173.7	-12.6	-4.7201 µg/L	-4.7201 ppb	21:18:59
1	Na 589.592 Radial†	1689.2	441.0	60.210 µg/L	60.210 ppb	21:18:39
1	Sr 421.552†	-87.4	45.7	0.0949 µg/L	0.0949 ppb	21:18:39
1	Sc 361.383	1691761.1	1691761.1	98.460 %		21:19:47
1	Y 371.029	1013835.9	1013835.9	98.748 %		21:19:47
1	Ag 328.068†	3999.1	-29.8	-0.1074 µg/L	-0.1074 ppb	21:19:49
1	As 188.979†	-10.2	10.0	3.0117 µg/L	3.0117 ppb	21:20:09
1	B 249.677†	3413.6	-39.0	-0.5756 µg/L	-0.5756 ppb	21:19:49
1	Ba 233.527†	-138.5	-4.8	-0.0197 µg/L	-0.0197 ppb	21:20:09
1	Be 313.107†	-974.4	75.0	0.0212 µg/L	0.0212 ppb	21:19:49
1	Cd 226.502†	-119.6	-3.3	-0.0208 µg/L	-0.0208 ppb	21:20:09
1	Co 228.616†	-162.5	25.3	0.3117 µg/L	0.3117 ppb	21:20:09
1	Cr 267.716†	206.6	31.2	0.2430 µg/L	0.2430 ppb	21:20:09
1	Cu 324.752†	2962.7	36.8	0.1452 µg/L	0.1452 ppb	21:19:49
1	Mn 257.610†	261.8	28.6	0.0356 µg/L	0.0356 ppb	21:20:09
1	Mo 202.031†	-32.6	-13.1	-0.3839 µg/L	-0.3839 ppb	21:20:09
1	Ni 231.604†	-104.8	-29.9	-0.3447 µg/L	-0.3447 ppb	21:20:09
1	P 214.914†	-11.4	6.4	1.3624 µg/L	1.3624 ppb	21:20:09
1	Pb 220.353†	75.5	-9.7	-0.5434 µg/L	-0.5434 ppb	21:20:09
1	S 181.975 Axial†	111.4	8.1	5.9955 µg/L	5.9955 ppb	21:20:09
1	Sb 206.836†	80.6	1.0	0.1122 µg/L	0.1122 ppb	21:20:09
1	Se 196.026†	3.3	-12.0	-4.33 µg/L	-4.33 ppb	21:20:09
1	SiO2†	1809.6	62.5	6.1130 µg/L	6.1130 ppb	21:20:09
1	Si 251.611†	946.2	124.4	1.8365 µg/L	1.8365 ppb	21:19:49
1	Sn 189.927†	4.9	6.1	0.3820 µg/L	0.3820 ppb	21:20:09
1	Ti 334.940†	770.9	-169.6	-0.1590 µg/L	-0.1590 ppb	21:19:49
1	Tl 190.801†	-120.5	-5.8	-0.7102 µg/L	-0.7102 ppb	21:20:09
1	U 409.014†	-225.3	41.0	2.4000 µg/L	2.4000 ppb	21:19:49
1	V 292.402†	398.1	0.6	0.0014 µg/L	0.0014 ppb	21:19:49
1	Zn 213.857†	596.3	41.2	0.2333 µg/L	0.2333 ppb	21:20:09
2	Sc RADIAL	140388.8	140388.8	96.2 %		21:19:01
2	Al 396.153Radial†	-40.1	21.6	4.0106 µg/L	4.0106 ppb	21:19:21
2	Ca 317.933Radial†	583.2	45.7	2.5430 µg/L	2.5430 ppb	21:19:21
2	Fe 238.204 Radial†	163.9	22.3	1.3738 µg/L	1.3738 ppb	21:19:21
2	K 766.490 Radial†	1756.0	280.5	102.70 µg/L	102.70 ppb	21:19:01
2	Mg 279.077 IEC†	185.4	2.0	0.7420 µg/L	0.7420 ppb	21:19:21
2	Na 589.592 Radial†	1757.4	535.9	73.122 µg/L	73.122 ppb	21:19:01
2	Sr 421.552†	-150.8	-21.5	-0.0447 µg/L	-0.0447 ppb	21:19:01
2	Sc 361.383	1725840.2	1725840.2	100.44 %		21:20:11
2	Y 371.029	1031661.1	1031661.1	100.48 %		21:20:11
2	Ag 328.068†	4128.5	18.9	0.0653 µg/L	0.0653 ppb	21:20:13
2	As 188.979†	-6.9	13.5	4.0841 µg/L	4.0841 ppb	21:20:34
2	B 249.677†	3476.1	-45.2	-0.6676 µg/L	-0.6676 ppb	21:20:13
2	Ba 233.527†	-122.5	13.9	0.0557 µg/L	0.0557 ppb	21:20:34
2	Be 313.107†	-1003.4	65.7	0.0171 µg/L	0.0171 ppb	21:20:13
2	Cd 226.502†	-100.9	17.7	0.1106 µg/L	0.1106 ppb	21:20:34
2	Co 228.616†	-165.4	25.6	0.3157 µg/L	0.3157 ppb	21:20:34
2	Cr 267.716†	175.4	-3.9	-0.0289 µg/L	-0.0289 ppb	21:20:34
2	Cu 324.752†	2951.3	-34.0	-0.1338 µg/L	-0.1338 ppb	21:20:13
2	Mn 257.610†	228.4	-9.9	-0.0123 µg/L	-0.0123 ppb	21:20:34
2	Mo 202.031†	-29.3	-9.0	-0.2659 µg/L	-0.2659 ppb	21:20:34
2	Ni 231.604†	-82.5	-5.6	-0.0645 µg/L	-0.0645 ppb	21:20:34
2	P 214.914†	-14.3	3.8	0.8123 µg/L	0.8123 ppb	21:20:34
2	Pb 220.353†	82.1	-4.7	-0.2595 µg/L	-0.2595 ppb	21:20:34

2	S 181.975 Axial†	91.3	-14.1	-10.498 µg/L	-10.498 ppb	21:20:34
2	Sb 206.836†	71.7	-9.4	-1.1204 µg/L	-1.1204 ppb	21:20:34
2	Se 196.026†	16.3	0.9	0.337 µg/L	0.337 ppb	21:20:34
2	SiO2†	1744.2	-38.9	-3.7990 µg/L	-3.7990 ppb	21:20:34
2	Si 251.611†	837.7	-2.5	-0.0368 µg/L	-0.0368 ppb	21:20:13
2	Sn 189.927†	6.2	7.3	0.4532 µg/L	0.4532 ppb	21:20:34
2	Ti 334.940†	756.2	-199.7	-0.1855 µg/L	-0.1855 ppb	21:20:13
2	Tl 190.801†	-123.1	-5.9	-0.7309 µg/L	-0.7309 ppb	21:20:34
2	U 409.014†	-314.2	-43.0	-2.5195 µg/L	-2.5195 ppb	21:20:13
2	V 292.402†	382.0	-23.5	-0.1192 µg/L	-0.1192 ppb	21:20:13
2	Zn 213.857†	586.1	19.1	0.1074 µg/L	0.1074 ppb	21:20:34
3	Sc RADIAL	142445.8	142445.8	97.6 %		21:19:23
3	Al 396.153Radial†	-90.2	-29.2	-5.4175 µg/L	-5.4175 ppb	21:19:43
3	Ca 317.933Radial†	593.8	47.8	2.6599 µg/L	2.6599 ppb	21:19:43
3	Fe 238.204 Radial†	167.0	23.0	1.4166 µg/L	1.4166 ppb	21:19:43
3	K 766.490 Radial†	1597.6	91.9	33.647 µg/L	33.647 ppb	21:19:23
3	Mg 279.077 IEC†	184.4	-1.8	-0.6658 µg/L	-0.6658 ppb	21:19:43
3	Na 589.592 Radial†	1758.3	510.5	69.717 µg/L	69.717 ppb	21:19:23
3	Sr 421.552†	-153.0	-21.4	-0.0445 µg/L	-0.0445 ppb	21:19:23
3	Sc 361.383	1713474.3	1713474.3	99.724 %		21:20:36
3	Y 371.029	1024068.4	1024068.4	99.745 %		21:20:36
3	Ag 328.068†	4150.2	70.3	0.2535 µg/L	0.2535 ppb	21:20:38
3	As 188.979†	-9.9	10.5	3.1681 µg/L	3.1681 ppb	21:20:58
3	B 249.677†	3600.1	104.2	1.5371 µg/L	1.5371 ppb	21:20:38
3	Ba 233.527†	-126.3	9.2	0.0373 µg/L	0.0373 ppb	21:20:58
3	Be 313.107†	-965.7	96.3	0.0240 µg/L	0.0240 ppb	21:20:38
3	Cd 226.502†	-105.6	12.3	0.0767 µg/L	0.0767 ppb	21:20:58
3	Co 228.616†	-193.8	-4.0	-0.0492 µg/L	-0.0492 ppb	21:20:58
3	Cr 267.716†	191.2	13.1	0.1087 µg/L	0.1087 ppb	21:20:58
3	Cu 324.752†	2975.4	11.4	0.0383 µg/L	0.0383 ppb	21:20:38
3	Mn 257.610†	236.4	-0.2	-0.0002 µg/L	-0.0002 ppb	21:20:58
3	Mo 202.031†	-19.1	0.9	0.0276 µg/L	0.0276 ppb	21:20:58
3	Ni 231.604†	-66.0	10.3	0.1188 µg/L	0.1188 ppb	21:20:58
3	P 214.914†	-5.2	12.7	2.7193 µg/L	2.7193 ppb	21:20:58
3	Pb 220.353†	57.4	-28.8	-1.6039 µg/L	-1.6039 ppb	21:20:58
3	S 181.975 Axial†	102.3	-2.4	-1.8005 µg/L	-1.8005 ppb	21:20:58
3	Sb 206.836†	78.7	-1.9	-0.2267 µg/L	-0.2267 ppb	21:20:58
3	Se 196.026†	18.0	2.8	0.995 µg/L	0.995 ppb	21:20:58
3	SiO2†	1745.8	-24.7	-2.4280 µg/L	-2.4280 ppb	21:20:58
3	Si 251.611†	1027.5	193.7	2.8516 µg/L	2.8516 ppb	21:20:38
3	Sn 189.927†	9.3	10.4	0.6506 µg/L	0.6506 ppb	21:20:58
3	Ti 334.940†	1090.0	140.5	0.1344 µg/L	0.1344 ppb	21:20:38
3	Tl 190.801†	-127.7	-11.4	-1.3953 µg/L	-1.3953 ppb	21:20:58
3	U 409.014†	-395.2	-126.4	-7.3813 µg/L	-7.3813 ppb	21:20:38
3	V 292.402†	441.4	38.8	0.1850 µg/L	0.1850 ppb	21:20:38
3	Zn 213.857†	582.7	19.9	0.1107 µg/L	0.1107 ppb	21:20:58

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1710358.5	99.543 %	%	1.0041			1.01%
Sc RADIAL	141725.0	97.1 %	%	0.79			0.82%
Y 371.029	1023188.4	99.659 %	%	0.8713			0.87%
Ag 328.068†	19.8	0.0705 µg/L	µg/L	0.18052	0.0705 ppb	0.18052	256.19%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-7.9	-1.4626 µg/L	µg/L	4.89399	-1.4626 ppb	4.89399	334.61%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	11.3	3.4213 µg/L	µg/L	0.57932	3.4213 ppb	0.57932	16.93%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	6.7	0.0980 µg/L	µg/L	1.24716	0.0980 ppb	1.24716	>999.9%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	6.1	0.0244 µg/L	µg/L	0.03927	0.0244 ppb	0.03927	160.74%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	79.0	0.0208 µg/L	µg/L	0.00345	0.0208 ppb	0.00345	16.63%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	53.9	3.0008 µg/L	µg/L	0.69420	3.0008 ppb	0.69420	23.13%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	8.9	0.0555 µg/L	µg/L	0.06825	0.0555 ppb	0.06825	123.01%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	15.6	0.1927 µg/L	µg/L	0.20954	0.1927 ppb	0.20954	108.73%

Cr	267.716†	13.5	0.1076 µg/L	0.13596	0.1076 ppb	0.13596	126.39%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cu	324.752†	4.7	0.0166 µg/L	0.14075	0.0166 ppb	0.14075	850.04%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Fe	238.204 Radial†	25.2	1.5526 µg/L	0.27342	1.5526 ppb	0.27342	17.61%
QC value within limits for Cu 324.752 Recovery = Not calculated							
K	766.490 Radial†	161.8	59.237 µg/L	37.8362	59.237 ppb	37.8362	63.87%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-4.1	-1.5480 µg/L	2.83593	-1.5480 ppb	2.83593	183.20%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mn	257.610†	6.2	0.0077 µg/L	0.02490	0.0077 ppb	0.02490	322.21%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mo	202.031†	-7.1	-0.2074 µg/L	0.21190	-0.2074 ppb	0.21190	102.16%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Na	589.592 Radial†	495.8	67.683 µg/L	6.6920	67.683 ppb	6.6920	9.89%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni	231.604†	-8.4	-0.0968 µg/L	0.23339	-0.0968 ppb	0.23339	241.07%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
P	214.914†	7.6	1.6313 µg/L	0.98157	1.6313 ppb	0.98157	60.17%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb	220.353†	-14.4	-0.8023 µg/L	0.70858	-0.8023 ppb	0.70858	88.32%
QC value within limits for P 214.914 Recovery = Not calculated							
S	181.975 Axial†	-2.8	-2.1010 µg/L	8.25080	-2.1010 ppb	8.25080	392.71%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb	206.836†	-3.4	-0.4117 µg/L	0.63677	-0.4117 ppb	0.63677	154.68%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Se	196.026†	-2.8	-0.998 µg/L	2.9005	-0.998 ppb	2.9005	290.74%
QC value within limits for Sb 206.836 Recovery = Not calculated							
SiO2†		-0.4	-0.0380 µg/L	5.37088	-0.0380 ppb	5.37088	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	105.2	1.5504 µg/L	1.46530	1.5504 ppb	1.46530	94.51%
QC value within limits for SiO2 Recovery = Not calculated							
Sn	189.927†	7.9	0.4953 µg/L	0.13914	0.4953 ppb	0.13914	28.09%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sr	421.552†	0.9	0.0019 µg/L	0.08056	0.0019 ppb	0.08056	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti	334.940†	-76.2	-0.0700 µg/L	0.17755	-0.0700 ppb	0.17755	253.50%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Tl	190.801†	-7.7	-0.9455 µg/L	0.38970	-0.9455 ppb	0.38970	41.22%
QC value within limits for Ti 334.940 Recovery = Not calculated							
U	409.014†	-42.8	-2.5003 µg/L	4.89065	-2.5003 ppb	4.89065	195.61%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V	292.402†	5.3	0.0224 µg/L	0.15317	0.0224 ppb	0.15317	684.80%
QC value within limits for U 409.014 Recovery = Not calculated							
Zn	213.857†	26.7	0.1505 µg/L	0.07173	0.1505 ppb	0.07173	47.67%
QC value within limits for V 292.402 Recovery = Not calculated							
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 61  
 Sample ID: CCV  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 1  
 Date Collected: 3/31/2010 21:39:57  
 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	143665.7	143665.7	98.4 %		21:40:31
1	Al 396.153Radial†	26354.7	26833.2	4952.4 µg/L	4952.4 ppb	21:40:31
1	Ca 317.933Radial†	87317.1	88132.5	4909.3 µg/L	4909.3 ppb	21:40:31
1	Fe 238.204 Radial†	78178.3	79262.3	4885.2 µg/L	4885.2 ppb	21:40:31
1	K 766.490 Radial†	14683.9	13370.5	4891.1 µg/L	4891.1 ppb	21:40:31
1	Mg 279.077 IEC†	13397.8	13418.2	5007.1 µg/L	5007.1 ppb	21:40:31
1	Na 589.592 Radial†	71164.9	70995.6	9694.5 µg/L	9694.5 ppb	21:40:31
1	Sr 421.552†	233220.3	237030.9	492.73 µg/L	492.73 ppb	21:40:29
1	Sc 361.383	1721068.9	1721068.9	100.17 %		21:40:44
1	Y 371.029	1018507.5	1018507.5	99.203 %		21:40:44
1	Ag 328.068†	133737.4	129424.5	485.29 µg/L	485.29 ppb	21:40:44
1	As 188.979†	1607.1	1624.8	498.43 µg/L	498.43 ppb	21:41:04
1	B 249.677†	35997.3	32431.8	476.62 µg/L	476.62 ppb	21:40:44
1	Ba 233.527†	120429.2	120365.5	485.43 µg/L	485.43 ppb	21:40:44
1	Be 313.107†	1795349.9	1793440.3	488.46 µg/L	488.46 ppb	21:40:44
1	Cd 226.502†	77524.8	77514.6	483.88 µg/L	483.88 ppb	21:40:44
1	Co 228.616†	39299.3	39424.5	486.69 µg/L	486.69 ppb	21:40:44
1	Cr 267.716†	61864.3	61583.2	482.19 µg/L	482.19 ppb	21:40:44
1	Cu 324.752†	127127.0	123944.2	483.17 µg/L	483.17 ppb	21:40:44
1	Mn 257.610†	395346.6	394454.4	487.85 µg/L	487.85 ppb	21:40:44
1	Mo 202.031†	16480.7	16473.5	484.58 µg/L	484.58 ppb	21:41:04
1	Ni 231.604†	41947.7	41954.7	483.08 µg/L	483.08 ppb	21:40:44
1	P 214.914†	11320.1	11319.3	2412.7 µg/L	2412.7 ppb	21:41:04
1	Pb 220.353†	8845.0	8744.0	489.65 µg/L	489.65 ppb	21:41:04
1	S 181.975 Axial†	1407.4	1300.0	969.45 µg/L	969.45 ppb	21:41:04
1	Sb 206.836†	4164.4	4076.7	485.74 µg/L	485.74 ppb	21:41:04
1	Se 196.026†	1354.0	1336.4	485 µg/L	485 ppb	21:41:04
1	SiO2†	55679.1	53811.5	5238.8 µg/L	5238.8 ppb	21:40:44
1	Si 251.611†	168734.5	167618.4	2461.5 µg/L	2461.5 ppb	21:40:44
1	Sn 189.927†	7779.1	7767.4	485.85 µg/L	485.85 ppb	21:41:04
1	Ti 334.940†	522596.2	520777.9	485.92 µg/L	485.92 ppb	21:40:44
1	Tl 190.801†	3874.4	3984.7	496.88 µg/L	496.88 ppb	21:41:04
1	U 409.014†	7407.3	7664.9	477.49 µg/L	477.49 ppb	21:40:44
1	V 292.402†	98914.4	98346.8	486.18 µg/L	486.18 ppb	21:40:44
1	Zn 213.857†	87152.2	86443.4	481.80 µg/L	481.80 ppb	21:40:44
2	Sc RADIAL	145456.2	145456.2	99.7 %		21:40:35
2	Al 396.153Radial†	26834.6	26985.2	4980.5 µg/L	4980.5 ppb	21:40:35
2	Ca 317.933Radial†	88881.4	88610.2	4935.9 µg/L	4935.9 ppb	21:40:35
2	Fe 238.204 Radial†	79662.0	79773.3	4916.7 µg/L	4916.7 ppb	21:40:35
2	K 766.490 Radial†	14845.0	13348.6	4883.1 µg/L	4883.1 ppb	21:40:35
2	Mg 279.077 IEC†	13510.7	13364.0	4986.9 µg/L	4986.9 ppb	21:40:35
2	Na 589.592 Radial†	72176.6	71120.8	9711.6 µg/L	9711.6 ppb	21:40:35
2	Sr 421.552†	230930.1	231817.3	481.90 µg/L	481.90 ppb	21:40:33
2	Sc 361.383	1718468.2	1718468.2	100.01 %		21:41:07
2	Y 371.029	1016391.1	1016391.1	98.997 %		21:41:07
2	Ag 328.068†	133896.2	129785.3	486.62 µg/L	486.62 ppb	21:41:07
2	As 188.979†	1611.9	1632.1	500.64 µg/L	500.64 ppb	21:41:27
2	B 249.677†	36060.3	32549.2	478.36 µg/L	478.36 ppb	21:41:07
2	Ba 233.527†	120340.6	120458.9	485.81 µg/L	485.81 ppb	21:41:07
2	Be 313.107†	1792650.3	1793453.6	488.45 µg/L	488.45 ppb	21:41:07
2	Cd 226.502†	77583.4	77690.3	484.97 µg/L	484.97 ppb	21:41:07
2	Co 228.616†	39213.4	39398.0	486.37 µg/L	486.37 ppb	21:41:07
2	Cr 267.716†	61991.1	61803.5	483.93 µg/L	483.93 ppb	21:41:07
2	Cu 324.752†	127061.9	124071.2	483.66 µg/L	483.66 ppb	21:41:07
2	Mn 257.610†	395040.3	394745.5	488.21 µg/L	488.21 ppb	21:41:07
2	Mo 202.031†	16505.0	16522.7	486.03 µg/L	486.03 ppb	21:41:27
2	Ni 231.604†	42190.5	42260.9	486.60 µg/L	486.60 ppb	21:41:07
2	P 214.914†	11360.6	11376.9	2425.0 µg/L	2425.0 ppb	21:41:27
2	Pb 220.353†	8840.9	8753.2	490.18 µg/L	490.18 ppb	21:41:27

2	S 181.975 Axial†	1398.8	1293.6	964.68 µg/L	964.68 ppb	21:41:27
2	Sb 206.836†	4174.1	4092.7	487.64 µg/L	487.64 ppb	21:41:27
2	Se 196.026†	1355.3	1339.8	486 µg/L	486 ppb	21:41:27
2	SiO2†	55809.3	54025.8	5259.7 µg/L	5259.7 ppb	21:41:07
2	Si 251.611†	168475.9	167614.8	2461.4 µg/L	2461.4 ppb	21:41:07
2	Sn 189.927†	7806.2	7806.1	488.27 µg/L	488.27 ppb	21:41:27
2	Ti 334.940†	521521.1	520492.6	485.66 µg/L	485.66 ppb	21:41:07
2	Tl 190.801†	3825.2	3941.3	491.55 µg/L	491.55 ppb	21:41:27
2	U 409.014†	7087.5	7356.3	459.54 µg/L	459.54 ppb	21:41:07
2	V 292.402†	99089.1	98670.9	487.77 µg/L	487.77 ppb	21:41:07
2	Zn 213.857†	87415.4	86838.2	483.99 µg/L	483.99 ppb	21:41:07
3	Sc RADIAL	143191.9	143191.9	98.1 %		21:40:39
3	Al 396.153Radial†	26557.8	27128.8	5007.1 µg/L	5007.1 ppb	21:40:39
3	Ca 317.933Radial†	87348.5	88458.0	4927.5 µg/L	4927.5 ppb	21:40:39
3	Fe 238.204 Radial†	78236.9	79584.7	4905.1 µg/L	4905.1 ppb	21:40:39
3	K 766.490 Radial†	14659.9	13395.4	4900.3 µg/L	4900.3 ppb	21:40:39
3	Mg 279.077 IEC†	13262.5	13325.4	4972.5 µg/L	4972.5 ppb	21:40:39
3	Na 589.592 Radial†	71088.0	71156.4	9716.5 µg/L	9716.5 ppb	21:40:39
3	Sr 421.552†	229311.5	233831.2	486.08 µg/L	486.08 ppb	21:40:37
3	Sc 361.383	1712233.1	1712233.1	99.652 %		21:41:30
3	Y 371.029	1012145.6	1012145.6	98.583 %		21:41:30
3	Ag 328.068†	133864.3	130240.8	488.35 µg/L	488.35 ppb	21:41:30
3	As 188.979†	1597.0	1622.9	497.89 µg/L	497.89 ppb	21:41:50
3	B 249.677†	36087.2	32707.4	480.68 µg/L	480.68 ppb	21:41:30
3	Ba 233.527†	120029.4	120584.8	486.32 µg/L	486.32 ppb	21:41:30
3	Be 313.107†	1789689.6	1797009.6	489.43 µg/L	489.43 ppb	21:41:30
3	Cd 226.502†	77607.6	77997.0	486.89 µg/L	486.89 ppb	21:41:30
3	Co 228.616†	39237.2	39564.7	488.42 µg/L	488.42 ppb	21:41:30
3	Cr 267.716†	61895.9	61933.7	484.93 µg/L	484.93 ppb	21:41:30
3	Cu 324.752†	126699.8	124170.4	484.06 µg/L	484.06 ppb	21:41:30
3	Mn 257.610†	394236.6	395377.2	488.99 µg/L	488.99 ppb	21:41:30
3	Mo 202.031†	16435.8	16513.3	485.75 µg/L	485.75 ppb	21:41:50
3	Ni 231.604†	42100.7	42324.4	487.33 µg/L	487.33 ppb	21:41:30
3	P 214.914†	11331.6	11389.1	2427.6 µg/L	2427.6 ppb	21:41:50
3	Pb 220.353†	8803.4	8747.8	489.86 µg/L	489.86 ppb	21:41:50
3	S 181.975 Axial†	1399.9	1299.7	969.26 µg/L	969.26 ppb	21:41:50
3	Sb 206.836†	4147.7	4081.4	486.29 µg/L	486.29 ppb	21:41:50
3	Se 196.026†	1361.2	1350.7	490 µg/L	490 ppb	21:41:50
3	SiO2†	55566.3	53985.2	5255.7 µg/L	5255.7 ppb	21:41:30
3	Si 251.611†	168537.6	168290.1	2471.4 µg/L	2471.4 ppb	21:41:30
3	Sn 189.927†	7783.2	7811.5	488.60 µg/L	488.60 ppb	21:41:50
3	Ti 334.940†	520012.8	520877.8	486.02 µg/L	486.02 ppb	21:41:30
3	Tl 190.801†	3855.0	3985.2	496.95 µg/L	496.95 ppb	21:41:50
3	U 409.014†	7438.0	7733.9	481.69 µg/L	481.69 ppb	21:41:30
3	V 292.402†	98978.3	98920.4	489.01 µg/L	489.01 ppb	21:41:30
3	Zn 213.857†	86968.8	86708.3	483.25 µg/L	483.25 ppb	21:41:30

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1717256.7	99.944 %	0.2643			0.26%
Sc RADIAL	144104.6	98.7 %	0.82			0.83%
Y 371.029	1015681.4	98.928 %	0.3156			0.32%
Ag 328.068†	129816.8	486.75 µg/L	1.535	486.75 ppb	1.535	0.32%
QC value within limits for Ag 328.068 Recovery = 97.35%						
Al 396.153Radial†	26982.4	4980.0 µg/L	27.38	4980.0 ppb	27.38	0.55%
QC value within limits for Al 396.153Radial Recovery = 99.60%						
As 188.979†	1626.6	498.99 µg/L	1.460	498.99 ppb	1.460	0.29%
QC value within limits for As 188.979 Recovery = 99.80%						
B 249.677†	32562.8	478.55 µg/L	2.037	478.55 ppb	2.037	0.43%
QC value within limits for B 249.677 Recovery = 95.71%						
Ba 233.527†	120469.8	485.85 µg/L	0.444	485.85 ppb	0.444	0.09%
QC value within limits for Ba 233.527 Recovery = 97.17%						
Be 313.107†	1794634.5	488.78 µg/L	0.562	488.78 ppb	0.562	0.12%
QC value within limits for Be 313.107 Recovery = 97.76%						
Ca 317.933Radial†	88400.3	4924.2 µg/L	13.59	4924.2 ppb	13.59	0.28%
QC value within limits for Ca 317.933Radial Recovery = 98.48%						
Cd 226.502†	77734.0	485.25 µg/L	1.525	485.25 ppb	1.525	0.31%
QC value within limits for Cd 226.502 Recovery = 97.05%						
Co 228.616†	39462.4	487.16 µg/L	1.106	487.16 ppb	1.106	0.23%

QC value within limits for Co	228.616	Recovery = 97.43%			
Cr 267.716†	61773.5	483.68 µg/L	1.389	483.68 ppb	1.389 0.29%
QC value within limits for Cr	267.716	Recovery = 96.74%			
Cu 324.752†	124061.9	483.63 µg/L	0.443	483.63 ppb	0.443 0.09%
QC value within limits for Cu	324.752	Recovery = 96.73%			
Fe 238.204 Radial†	79540.1	4902.4 µg/L	15.93	4902.4 ppb	15.93 0.32%
QC value within limits for Fe	238.204 Radial	Recovery = 98.05%			
K 766.490 Radial†	13371.5	4891.5 µg/L	8.58	4891.5 ppb	8.58 0.18%
QC value within limits for K	766.490 Radial	Recovery = 97.83%			
Mg 279.077 IEC†	13369.2	4988.8 µg/L	17.36	4988.8 ppb	17.36 0.35%
QC value within limits for Mg	279.077 IEC	Recovery = 99.78%			
Mn 257.610†	394859.0	488.35 µg/L	0.584	488.35 ppb	0.584 0.12%
QC value within limits for Mn	257.610	Recovery = 97.67%			
Mo 202.031†	16503.2	485.45 µg/L	0.769	485.45 ppb	0.769 0.16%
QC value within limits for Mo	202.031	Recovery = 97.09%			
Na 589.592 Radial†	71090.9	9707.5 µg/L	11.54	9707.5 ppb	11.54 0.12%
QC value within limits for Na	589.592 Radial	Recovery = 97.08%			
Ni 231.604†	42180.0	485.67 µg/L	2.276	485.67 ppb	2.276 0.47%
QC value within limits for Ni	231.604	Recovery = 97.13%			
P 214.914†	11361.8	2421.7 µg/L	7.97	2421.7 ppb	7.97 0.33%
QC value within limits for P	214.914	Recovery = 96.87%			
Pb 220.353†	8748.3	489.90 µg/L	0.268	489.90 ppb	0.268 0.05%
QC value within limits for Pb	220.353	Recovery = 97.98%			
S 181.975 Axial†	1297.8	967.80 µg/L	2.698	967.80 ppb	2.698 0.28%
QC value within limits for S	181.975 Axial	Recovery = 96.78%			
Sb 206.836†	4083.6	486.56 µg/L	0.979	486.56 ppb	0.979 0.20%
QC value within limits for Sb	206.836	Recovery = 97.31%			
Se 196.026†	1342.3	487 µg/L	2.7	487 ppb	2.7 0.55%
QC value within limits for Se	196.026	Recovery = 97.48%			
SiO2†	53940.8	5251.4 µg/L	11.08	5251.4 ppb	11.08 0.21%
QC value within limits for SiO2		Recovery = 98.20%			
Si 251.611†	167841.1	2464.8 µg/L	5.72	2464.8 ppb	5.72 0.23%
QC value within limits for Si	251.611	Recovery = 98.59%			
Sn 189.927†	7795.0	487.58 µg/L	1.501	487.58 ppb	1.501 0.31%
QC value within limits for Sn	189.927	Recovery = 97.52%			
Sr 421.552†	234226.5	486.90 µg/L	5.466	486.90 ppb	5.466 1.12%
QC value within limits for Sr	421.552	Recovery = 97.38%			
Ti 334.940†	520716.1	485.87 µg/L	0.182	485.87 ppb	0.182 0.04%
QC value within limits for Ti	334.940	Recovery = 97.17%			
Tl 190.801†	3970.4	495.13 µg/L	3.095	495.13 ppb	3.095 0.63%
QC value within limits for Tl	190.801	Recovery = 99.03%			
U 409.014†	7585.0	472.91 µg/L	11.768	472.91 ppb	11.768 2.49%
QC value within limits for U	409.014	Recovery = 94.58%			
V 292.402†	98646.0	487.65 µg/L	1.415	487.65 ppb	1.415 0.29%
QC value within limits for V	292.402	Recovery = 97.53%			
Zn 213.857†	86663.3	483.01 µg/L	1.115	483.01 ppb	1.115 0.23%
QC value within limits for Zn	213.857	Recovery = 96.60%			

All analyte(s) passed QC.



Sequence No.: 62

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/31/2010 21:41:59

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	143435.3	143435.3	98.3 %		21:42:30
1	Al 396.153Radial†	-56.2	6.0	1.1301 µg/L	1.1301 ppb	21:42:50
1	Ca 317.933Radial†	581.9	31.5	1.7535 µg/L	1.7535 ppb	21:42:50
1	Fe 238.204 Radial†	220.1	75.9	4.6750 µg/L	4.6750 ppb	21:42:50
1	K 766.490 Radial†	1630.1	113.7	41.604 µg/L	41.604 ppb	21:42:30
1	Mg 279.077 IEC†	185.9	-1.6	-0.5986 µg/L	-0.5986 ppb	21:42:50
1	Na 589.592 Radial†	1456.5	191.1	26.064 µg/L	26.064 ppb	21:42:30
1	Sr 421.552†	-303.2	-173.2	-0.3600 µg/L	-0.3600 ppb	21:42:30
1	Sc 361.383	1716104.0	1716104.0	99.877 %		21:43:52
1	Y 371.029	1026337.9	1026337.9	99.966 %		21:43:52
1	Ag 328.068†	4103.4	17.0	0.0542 µg/L	0.0542 ppb	21:43:54
1	As 188.979†	-11.9	8.5	2.5574 µg/L	2.5574 ppb	21:44:14
1	B 249.677†	3527.0	25.5	0.3738 µg/L	0.3738 ppb	21:43:54
1	Ba 233.527†	-143.0	-7.3	-0.0298 µg/L	-0.0298 ppb	21:44:14
1	Be 313.107†	-770.0	293.7	0.0782 µg/L	0.0782 ppb	21:43:54
1	Cd 226.502†	-77.7	40.4	0.2520 µg/L	0.2520 ppb	21:44:14
1	Co 228.616†	-153.6	36.5	0.4505 µg/L	0.4505 ppb	21:44:14
1	Cr 267.716†	176.1	-2.3	-0.0133 µg/L	-0.0133 ppb	21:44:14
1	Cu 324.752†	3046.8	78.3	0.3006 µg/L	0.3006 ppb	21:43:54
1	Mn 257.610†	328.7	91.9	0.1137 µg/L	0.1137 ppb	21:44:14
1	Mo 202.031†	-27.4	-7.4	-0.2173 µg/L	-0.2173 ppb	21:44:14
1	Ni 231.604†	-77.8	-1.3	-0.0154 µg/L	-0.0154 ppb	21:44:14
1	P 214.914†	-3.8	14.1	3.0202 µg/L	3.0202 ppb	21:44:14
1	Pb 220.353†	91.6	5.4	0.3025 µg/L	0.3025 ppb	21:44:14
1	Sb 181.975 Axial†	84.3	-20.7	-15.370 µg/L	-15.370 ppb	21:44:14
1	Sb 206.836†	85.3	4.6	0.5436 µg/L	0.5436 ppb	21:44:14
1	Se 196.026†	18.7	3.4	1.24 µg/L	1.24 ppb	21:44:14
1	SiO2†	1789.6	16.4	1.6035 µg/L	1.6035 ppb	21:44:14
1	Si 251.611†	934.5	99.0	1.4600 µg/L	1.4600 ppb	21:43:54
1	Sn 189.927†	6.5	7.6	0.4757 µg/L	0.4757 ppb	21:44:14
1	Ti 334.940†	967.5	16.2	0.0175 µg/L	0.0175 ppb	21:43:54
1	Tl 190.801†	-127.3	-10.8	-1.3305 µg/L	-1.3305 ppb	21:44:14
1	U 409.014†	-367.5	-98.1	-5.7438 µg/L	-5.7438 ppb	21:43:54
1	V 292.402†	375.1	-28.2	-0.1442 µg/L	-0.1442 ppb	21:43:54
1	Zn 213.857†	580.1	16.4	0.0915 µg/L	0.0915 ppb	21:44:14
2	Sc RADIAL	141870.3	141870.3	97.2 %		21:42:52
2	Al 396.153Radial†	-65.2	-3.9	-0.6977 µg/L	-0.6977 ppb	21:43:12
2	Ca 317.933Radial†	617.6	74.7	4.1593 µg/L	4.1593 ppb	21:43:12
2	Fe 238.204 Radial†	216.5	74.5	4.5946 µg/L	4.5946 ppb	21:43:12
2	K 766.490 Radial†	1775.2	281.2	102.95 µg/L	102.95 ppb	21:42:52
2	Mg 279.077 IEC†	182.1	-3.4	-1.2877 µg/L	-1.2877 ppb	21:43:12
2	Na 589.592 Radial†	1482.8	234.5	31.940 µg/L	31.940 ppb	21:42:52
2	Sr 421.552†	-167.3	-36.8	-0.0764 µg/L	-0.0764 ppb	21:42:52
2	Sc 361.383	1723490.8	1723490.8	100.31 %		21:44:16
2	Y 371.029	1031447.1	1031447.1	100.46 %		21:44:16
2	Ag 328.068†	4201.6	97.3	0.3501 µg/L	0.3501 ppb	21:44:18
2	As 188.979†	-15.3	5.1	1.5573 µg/L	1.5573 ppb	21:44:38
2	B 249.677†	3665.3	148.2	2.1841 µg/L	2.1841 ppb	21:44:18
2	Ba 233.527†	-146.0	-9.7	-0.0400 µg/L	-0.0400 ppb	21:44:38
2	Be 313.107†	-1050.7	17.2	0.0045 µg/L	0.0045 ppb	21:44:18
2	Cd 226.502†	-111.8	6.7	0.0414 µg/L	0.0414 ppb	21:44:38
2	Co 228.616†	-164.6	26.2	0.3234 µg/L	0.3234 ppb	21:44:38
2	Cr 267.716†	226.4	47.1	0.3695 µg/L	0.3695 ppb	21:44:38
2	Cu 324.752†	2823.9	-156.9	-0.6096 µg/L	-0.6096 ppb	21:44:18
2	Mn 257.610†	284.0	45.8	0.0568 µg/L	0.0568 ppb	21:44:38
2	Mo 202.031†	-36.4	-16.2	-0.4763 µg/L	-0.4763 ppb	21:44:38
2	Ni 231.604†	-100.6	-23.8	-0.2736 µg/L	-0.2736 ppb	21:44:38
2	P 214.914†	-35.6	-17.5	-3.7362 µg/L	-3.7362 ppb	21:44:38
2	Pb 220.353†	84.0	-2.6	-0.1459 µg/L	-0.1459 ppb	21:44:38

2	S 181.975 Axial†	89.5	-15.8	-11.745 µg/L	-11.745 ppb	21:44:38
2	Sb 206.836†	89.4	8.3	0.9755 µg/L	0.9755 ppb	21:44:38
2	Se 196.026†	9.9	-5.4	-1.96 µg/L	-1.96 ppb	21:44:38
2	SiO2†	1777.4	-3.4	-0.3192 µg/L	-0.3192 ppb	21:44:38
2	Si 251.611†	834.3	-4.8	-0.0658 µg/L	-0.0658 ppb	21:44:18
2	Sn 189.927†	1.7	2.8	0.1770 µg/L	0.1770 ppb	21:44:38
2	Ti 334.940†	895.6	-59.6	-0.0554 µg/L	-0.0554 ppb	21:44:18
2	Tl 190.801†	-122.5	-5.4	-0.6750 µg/L	-0.6750 ppb	21:44:38
2	U 409.014†	-282.1	-11.3	-0.7096 µg/L	-0.7096 ppb	21:44:18
2	V 292.402†	242.6	-162.0	-0.7943 µg/L	-0.7943 ppb	21:44:18
2	Zn 213.857†	573.6	7.4	0.0434 µg/L	0.0434 ppb	21:44:38
3	Sc RADIAL	144958.5	144958.5	99.3 %		21:43:14
3	Al 396.153Radial†	-37.5	25.5	4.7369 µg/L	4.7369 ppb	21:43:34
3	Ca 317.933Radial†	583.6	27.0	1.5021 µg/L	1.5021 ppb	21:43:34
3	Fe 238.204 Radial†	192.7	45.8	2.8253 µg/L	2.8253 ppb	21:43:34
3	K 766.490 Radial†	1497.6	-37.2	-13.616 µg/L	-13.616 ppb	21:43:14
3	Mg 279.077 IEC†	178.6	-10.9	-4.0718 µg/L	-4.0718 ppb	21:43:34
3	Na 589.592 Radial†	1440.0	158.8	21.708 µg/L	21.708 ppb	21:43:14
3	Sr 421.552†	-197.6	-63.6	-0.1322 µg/L	-0.1322 ppb	21:43:14
3	Sc 361.383	1740188.5	1740188.5	101.28 %		21:44:40
3	Y 371.029	1039891.9	1039891.9	101.29 %		21:44:40
3	Ag 328.068†	3928.5	-212.5	-0.7881 µg/L	-0.7881 ppb	21:44:42
3	As 188.979†	-8.6	11.9	3.6004 µg/L	3.6004 ppb	21:45:02
3	B 249.677†	3552.8	2.1	0.0294 µg/L	0.0294 ppb	21:44:42
3	Ba 233.527†	-133.9	3.6	0.0140 µg/L	0.0140 ppb	21:45:02
3	Be 313.107†	-962.7	114.2	0.0329 µg/L	0.0329 ppb	21:44:42
3	Cd 226.502†	-89.8	29.5	0.1840 µg/L	0.1840 ppb	21:45:02
3	Co 228.616†	-162.5	29.8	0.3679 µg/L	0.3679 ppb	21:45:02
3	Cr 267.716†	179.3	-1.5	-0.0165 µg/L	-0.0165 ppb	21:45:02
3	Cu 324.752†	2942.1	-67.2	-0.2559 µg/L	-0.2559 ppb	21:44:42
3	Mn 257.610†	335.1	93.6	0.1159 µg/L	0.1159 ppb	21:45:02
3	Mo 202.031†	-28.8	-8.4	-0.2468 µg/L	-0.2468 ppb	21:45:02
3	Ni 231.604†	-82.6	-5.1	-0.0583 µg/L	-0.0583 ppb	21:45:02
3	P 214.914†	-27.4	-9.1	-1.9410 µg/L	-1.9410 ppb	21:45:02
3	Pb 220.353†	64.5	-22.7	-1.2712 µg/L	-1.2712 ppb	21:45:02
3	S 181.975 Axial†	101.1	-5.2	-3.8697 µg/L	-3.8697 ppb	21:45:02
3	Sb 206.836†	85.4	3.5	0.4065 µg/L	0.4065 ppb	21:45:02
3	Se 196.026†	13.5	-2.0	-0.710 µg/L	-0.710 ppb	21:45:02
3	SiO2†	1812.3	14.0	1.3744 µg/L	1.3744 ppb	21:45:02
3	Si 251.611†	970.3	121.4	1.7924 µg/L	1.7924 ppb	21:44:42
3	Sn 189.927†	1.9	3.0	0.1856 µg/L	0.1856 ppb	21:45:02
3	Ti 334.940†	941.7	-22.7	-0.0233 µg/L	-0.0233 ppb	21:44:42
3	Tl 190.801†	-117.2	1.0	0.1129 µg/L	0.1129 ppb	21:45:02
3	U 409.014†	-171.3	100.7	5.8492 µg/L	5.8492 ppb	21:44:42
3	V 292.402†	265.0	-142.2	-0.6925 µg/L	-0.6925 ppb	21:44:42
3	Zn 213.857†	580.1	8.4	0.0472 µg/L	0.0472 ppb	21:45:02

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1726594.5	100.49 %		0.718			0.71%
Sc RADIAL	143421.3	98.3 %		1.06			1.08%
Y 371.029	1032559.0	100.57 %		0.667			0.66%
Ag 328.068†	-32.7	-0.1280 µg/L		0.59056	-0.1280 ppb	0.59056	461.54%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	9.2	1.7231 µg/L		2.76540	1.7231 ppb	2.76540	160.49%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	8.5	2.5717 µg/L		1.02165	2.5717 ppb	1.02165	39.73%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	58.6	0.8625 µg/L		1.15748	0.8625 ppb	1.15748	134.21%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-4.5	-0.0186 µg/L		0.02870	-0.0186 ppb	0.02870	154.38%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	141.7	0.0385 µg/L		0.03721	0.0385 ppb	0.03721	96.57%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	44.4	2.4716 µg/L		1.46699	2.4716 ppb	1.46699	59.35%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	25.6	0.1591 µg/L		0.10748	0.1591 ppb	0.10748	67.54%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	30.9	0.3806 µg/L		0.06452	0.3806 ppb	0.06452	16.95%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	14.5	0.1132 µg/L	0.22191 0.1132 ppb 0.22191 195.99%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-48.6	-0.1883 µg/L	0.45884 -0.1883 ppb 0.45884 243.64%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	65.4	4.0316 µg/L	1.04544 4.0316 ppb 1.04544 25.93%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	119.2	43.647 µg/L	58.3112 43.647 ppb 58.3112 133.60%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-5.3	-1.9860 µg/L	1.83888 -1.9860 ppb 1.83888 92.59%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	77.1	0.0955 µg/L	0.03352 0.0955 ppb 0.03352 35.12%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-10.7	-0.3135 µg/L	0.14177 -0.3135 ppb 0.14177 45.22%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	194.8	26.570 µg/L	5.1349 26.570 ppb 5.1349 19.33%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-10.1	-0.1158 µg/L	0.13833 -0.1158 ppb 0.13833 119.49%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	-4.2	-0.8857 µg/L	3.49964 -0.8857 ppb 3.49964 395.14%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-6.6	-0.3715 µg/L	0.81072 -0.3715 ppb 0.81072 218.21%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-13.9	-10.328 µg/L	5.8795 -10.328 ppb 5.8795 56.93%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	5.5	0.6419 µg/L	0.29695 0.6419 ppb 0.29695 46.26%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	-1.3	-0.475 µg/L	1.6120 -0.475 ppb 1.6120 339.40%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	9.0	0.8862 µg/L	1.05021 0.8862 ppb 1.05021 118.50%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	71.9	1.0622 µg/L	0.99095 1.0622 ppb 0.99095 93.29%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	4.5	0.2794 µg/L	0.17000 0.2794 ppb 0.17000 60.84%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-91.2	-0.1896 µg/L	0.15021 -0.1896 ppb 0.15021 79.25%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	-22.1	-0.0204 µg/L	0.03654 -0.0204 ppb 0.03654 179.40%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	-5.1	-0.6309 µg/L	0.72270 -0.6309 ppb 0.72270 114.55%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-2.9	-0.2014 µg/L	5.81317 -0.2014 ppb 5.81317 >999.9%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-110.8	-0.5437 µg/L	0.34967 -0.5437 ppb 0.34967 64.31%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	10.7	0.0607 µg/L	0.02675 0.0607 ppb 0.02675 44.07%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 68

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/31/2010 21:55:36

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	142583.3	142583.3	97.7 %		21:56:11
1	Al 396.153Radial†	26125.5	26801.9	4946.6 µg/L	4946.6 ppb	21:56:11
1	Ca 317.933Radial†	86256.4	87720.3	4886.4 µg/L	4886.4 ppb	21:56:11
1	Fe 238.204 Radial†	77373.7	79041.6	4871.6 µg/L	4871.6 ppb	21:56:11
1	K 766.490 Radial†	14581.9	13379.4	4894.4 µg/L	4894.4 ppb	21:56:11
1	Mg 279.077 IEC†	13220.1	13339.7	4977.8 µg/L	4977.8 ppb	21:56:11
1	Na 589.592 Radial†	70221.6	70578.9	9637.6 µg/L	9637.6 ppb	21:56:11
1	Sr 421.552†	231094.9	236654.1	491.95 µg/L	491.95 ppb	21:56:08
1	Sc 361.383	1721792.2	1721792.2	100.21 %		21:56:38
1	Y 371.029	1018476.9	1018476.9	99.200 %		21:56:38
1	Ag 328.068†	132257.1	127891.1	479.55 µg/L	479.55 ppb	21:56:38
1	As 188.979†	1611.5	1628.5	499.47 µg/L	499.47 ppb	21:56:58
1	B 249.677†	35480.1	31900.5	468.81 µg/L	468.81 ppb	21:56:38
1	Ba 233.527†	119040.9	118929.6	479.64 µg/L	479.64 ppb	21:56:38
1	Be 313.107†	1767471.5	1764866.8	480.67 µg/L	480.67 ppb	21:56:38
1	Cd 226.502†	76426.9	76386.5	476.83 µg/L	476.83 ppb	21:56:38
1	Co 228.616†	38708.1	38818.0	479.20 µg/L	479.20 ppb	21:56:38
1	Cr 267.716†	61091.8	60786.4	475.95 µg/L	475.95 ppb	21:56:38
1	Cu 324.752†	125542.2	122309.4	476.81 µg/L	476.81 ppb	21:56:38
1	Mn 257.610†	389445.6	388399.8	480.36 µg/L	480.36 ppb	21:56:38
1	Mo 202.031†	16429.4	16415.4	482.87 µg/L	482.87 ppb	21:56:58
1	Ni 231.604†	41557.9	41548.1	478.40 µg/L	478.40 ppb	21:56:38
1	P 214.914†	11328.9	11323.4	2413.6 µg/L	2413.6 ppb	21:56:58
1	Pb 220.353†	8812.2	8707.5	487.61 µg/L	487.61 ppb	21:56:58
1	S 181.975 Axial†	1392.1	1284.2	957.66 µg/L	957.66 ppb	21:56:58
1	Sb 206.836†	4144.5	4055.1	483.24 µg/L	483.24 ppb	21:56:58
1	Se 196.026†	1364.7	1346.6	489 µg/L	489 ppb	21:56:58
1	SiO2†	55188.2	53298.2	5188.7 µg/L	5188.7 ppb	21:56:38
1	Si 251.611†	166961.4	165778.2	2434.4 µg/L	2434.4 ppb	21:56:38
1	Sn 189.927†	7776.6	7761.6	485.47 µg/L	485.47 ppb	21:56:58
1	Ti 334.940†	514606.5	512585.6	478.27 µg/L	478.27 ppb	21:56:38
1	Tl 190.801†	3826.9	3935.6	490.75 µg/L	490.75 ppb	21:56:58
1	U 409.014†	7289.4	7544.1	470.15 µg/L	470.15 ppb	21:56:38
1	V 292.402†	98070.8	97463.4	481.83 µg/L	481.83 ppb	21:56:38
1	Zn 213.857†	85920.7	85177.9	474.72 µg/L	474.72 ppb	21:56:38
2	Sc RADIAL	143543.2	143543.2	98.4 %		21:56:15
2	Al 396.153Radial†	26329.4	26830.4	4951.8 µg/L	4951.8 ppb	21:56:15
2	Ca 317.933Radial†	87214.1	88103.5	4907.7 µg/L	4907.7 ppb	21:56:15
2	Fe 238.204 Radial†	78175.0	79326.6	4889.2 µg/L	4889.2 ppb	21:56:15
2	K 766.490 Radial†	14759.5	13460.1	4923.9 µg/L	4923.9 ppb	21:56:15
2	Mg 279.077 IEC†	13306.4	13336.9	4976.8 µg/L	4976.8 ppb	21:56:15
2	Na 589.592 Radial†	70918.2	70806.4	9668.6 µg/L	9668.6 ppb	21:56:15
2	Sr 421.552†	232565.2	236567.1	491.77 µg/L	491.77 ppb	21:56:13
2	Sc 361.383	1725354.7	1725354.7	100.42 %		21:57:01
2	Y 371.029	1021259.3	1021259.3	99.471 %		21:57:01
2	Ag 328.068†	133310.0	128667.2	482.44 µg/L	482.44 ppb	21:57:01
2	As 188.979†	1621.3	1635.0	501.47 µg/L	501.47 ppb	21:57:21
2	B 249.677†	36007.3	32352.4	475.47 µg/L	475.47 ppb	21:57:01
2	Ba 233.527†	119720.2	119360.8	481.38 µg/L	481.38 ppb	21:57:01
2	Be 313.107†	1782951.5	1776640.9	483.88 µg/L	483.88 ppb	21:57:01
2	Cd 226.502†	77092.6	76891.9	479.99 µg/L	479.99 ppb	21:57:01
2	Co 228.616†	39093.6	39122.2	482.96 µg/L	482.96 ppb	21:57:01
2	Cr 267.716†	61575.2	61141.9	478.73 µg/L	478.73 ppb	21:57:01
2	Cu 324.752†	126592.7	123096.8	479.87 µg/L	479.87 ppb	21:57:01
2	Mn 257.610†	393017.2	391154.2	483.76 µg/L	483.76 ppb	21:57:01
2	Mo 202.031†	16523.6	16475.3	484.63 µg/L	484.63 ppb	21:57:21
2	Ni 231.604†	41848.9	41752.3	480.75 µg/L	480.75 ppb	21:57:01
2	P 214.914†	11396.2	11367.0	2422.9 µg/L	2422.9 ppb	21:57:21
2	Pb 220.353†	8867.2	8744.1	489.65 µg/L	489.65 ppb	21:57:21

2	S 181.975 Axial†	1408.6	1297.7	967.74 µg/L	967.74 ppb	21:57:21
2	Sb 206.836†	4160.8	4062.8	484.14 µg/L	484.14 ppb	21:57:21
2	Se 196.026†	1350.1	1329.2	483 µg/L	483 ppb	21:57:21
2	SiO2†	55415.3	53410.7	5199.6 µg/L	5199.6 ppb	21:57:01
2	Si 251.611†	167453.3	165924.1	2436.5 µg/L	2436.5 ppb	21:57:01
2	Sn 189.927†	7843.1	7811.7	488.60 µg/L	488.60 ppb	21:57:21
2	Ti 334.940†	518046.3	514950.8	480.48 µg/L	480.48 ppb	21:57:01
2	Tl 190.801†	3874.0	3974.7	495.58 µg/L	495.58 ppb	21:57:21
2	U 409.014†	7327.0	7566.6	471.56 µg/L	471.56 ppb	21:57:01
2	V 292.402†	98567.7	97756.1	483.29 µg/L	483.29 ppb	21:57:01
2	Zn 213.857†	86827.5	85903.9	478.78 µg/L	478.78 ppb	21:57:01
3	Sc RADIAL	146360.8	146360.8	100 %		21:56:19
3	Al 396.153Radial†	26877.7	26861.7	4957.8 µg/L	4957.8 ppb	21:56:19
3	Ca 317.933Radial†	89496.1	88672.0	4939.4 µg/L	4939.4 ppb	21:56:19
3	Fe 238.204 Radial†	80024.7	79640.9	4908.6 µg/L	4908.6 ppb	21:56:19
3	K 766.490 Radial†	15000.5	13411.5	4906.1 µg/L	4906.1 ppb	21:56:19
3	Mg 279.077 IEC†	13753.4	13522.1	5045.7 µg/L	5045.7 ppb	21:56:19
3	Na 589.592 Radial†	72413.6	70909.6	9682.7 µg/L	9682.7 ppb	21:56:19
3	Sr 421.552†	230747.3	230203.0	478.54 µg/L	478.54 ppb	21:56:17
3	Sc 361.383	1718966.4	1718966.4	100.04 %		21:57:24
3	Y 371.029	1017028.5	1017028.5	99.059 %		21:57:24
3	Ag 328.068†	132653.9	128504.7	481.80 µg/L	481.80 ppb	21:57:24
3	As 188.979†	1590.5	1610.2	493.94 µg/L	493.94 ppb	21:57:44
3	B 249.677†	35824.6	32303.1	474.74 µg/L	474.74 ppb	21:57:24
3	Ba 233.527†	119070.9	119154.9	480.55 µg/L	480.55 ppb	21:57:24
3	Be 313.107†	1772306.3	1772598.9	482.78 µg/L	482.78 ppb	21:57:24
3	Cd 226.502†	76616.2	76701.1	478.79 µg/L	478.79 ppb	21:57:24
3	Co 228.616†	38830.3	39003.7	481.49 µg/L	481.49 ppb	21:57:24
3	Cr 267.716†	61234.2	61029.0	477.86 µg/L	477.86 ppb	21:57:24
3	Cu 324.752†	125521.6	122494.7	477.53 µg/L	477.53 ppb	21:57:24
3	Mn 257.610†	389961.8	389554.7	481.78 µg/L	481.78 ppb	21:57:24
3	Mo 202.031†	16335.5	16348.5	480.91 µg/L	480.91 ppb	21:57:44
3	Ni 231.604†	41630.1	41688.5	480.01 µg/L	480.01 ppb	21:57:24
3	P 214.914†	11241.7	11254.8	2398.9 µg/L	2398.9 ppb	21:57:44
3	Pb 220.353†	8795.7	8705.5	487.50 µg/L	487.50 ppb	21:57:44
3	S 181.975 Axial†	1388.4	1282.7	956.57 µg/L	956.57 ppb	21:57:44
3	Sb 206.836†	4126.6	4043.9	481.85 µg/L	481.85 ppb	21:57:44
3	Se 196.026†	1345.6	1329.7	483 µg/L	483 ppb	21:57:44
3	SiO2†	54983.2	53183.9	5177.6 µg/L	5177.6 ppb	21:57:24
3	Si 251.611†	166469.4	165560.3	2431.2 µg/L	2431.2 ppb	21:57:24
3	Sn 189.927†	7725.1	7722.8	483.05 µg/L	483.05 ppb	21:57:44
3	Ti 334.940†	514909.1	513732.3	479.34 µg/L	479.34 ppb	21:57:24
3	Tl 190.801†	3822.2	3937.2	490.94 µg/L	490.94 ppb	21:57:44
3	U 409.014†	7179.0	7445.8	464.34 µg/L	464.34 ppb	21:57:24
3	V 292.402†	97706.1	97259.8	480.82 µg/L	480.82 ppb	21:57:24
3	Zn 213.857†	86111.6	85509.7	476.57 µg/L	476.57 ppb	21:57:24

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1722037.8	100.22 %	0.186			0.19%
Sc RADIAL	144162.4	98.8 %	1.35			1.36%
Y 371.029	1018921.6	99.243 %	0.2094			0.21%
Ag 328.068†	128354.3	481.26 µg/L	1.519	481.26 ppb	1.519	0.32%
QC value within limits for Ag 328.068 Recovery = 96.25%						
Al 396.153Radial†	26831.3	4952.1 µg/L	5.59	4952.1 ppb	5.59	0.11%
QC value within limits for Al 396.153Radial Recovery = 99.04%						
As 188.979†	1624.5	498.29 µg/L	3.898	498.29 ppb	3.898	0.78%
QC value within limits for As 188.979 Recovery = 99.66%						
B 249.677†	32185.3	473.01 µg/L	3.650	473.01 ppb	3.650	0.77%
QC value within limits for B 249.677 Recovery = 94.60%						
Ba 233.527†	119148.4	480.52 µg/L	0.870	480.52 ppb	0.870	0.18%
QC value within limits for Ba 233.527 Recovery = 96.10%						
Be 313.107†	1771368.9	482.44 µg/L	1.629	482.44 ppb	1.629	0.34%
QC value within limits for Be 313.107 Recovery = 96.49%						
Ca 317.933Radial†	88165.3	4911.2 µg/L	26.67	4911.2 ppb	26.67	0.54%
QC value within limits for Ca 317.933Radial Recovery = 98.22%						
Cd 226.502†	76659.8	478.54 µg/L	1.594	478.54 ppb	1.594	0.33%
QC value within limits for Cd 226.502 Recovery = 95.71%						
Co 228.616†	38981.3	481.22 µg/L	1.892	481.22 ppb	1.892	0.39%

QC value within limits for Co 228.616 Recovery = 96.24%							
Cr 267.716†	60985.7	477.51 µg/L	1.423	477.51 ppb	1.423	0.30%	
QC value within limits for Cr 267.716 Recovery = 95.50%							
Cu 324.752†	122633.6	478.07 µg/L	1.603	478.07 ppb	1.603	0.34%	
QC value within limits for Cu 324.752 Recovery = 95.61%							
Fe 238.204 Radial†	79336.4	4889.8 µg/L	18.48	4889.8 ppb	18.48	0.38%	
QC value within limits for Fe 238.204 Radial Recovery = 97.80%							
K 766.490 Radial†	13417.0	4908.2 µg/L	14.87	4908.2 ppb	14.87	0.30%	
QC value within limits for K 766.490 Radial Recovery = 98.16%							
Mg 279.077 IEC†	13399.6	5000.1 µg/L	39.49	5000.1 ppb	39.49	0.79%	
QC value within limits for Mg 279.077 IEC Recovery = 100.00%							
Mn 257.610†	389702.9	481.97 µg/L	1.712	481.97 ppb	1.712	0.36%	
QC value within limits for Mn 257.610 Recovery = 96.39%							
Mo 202.031†	16413.1	482.80 µg/L	1.864	482.80 ppb	1.864	0.39%	
QC value within limits for Mo 202.031 Recovery = 96.56%							
Na 589.592 Radial†	70765.0	9663.0 µg/L	23.10	9663.0 ppb	23.10	0.24%	
QC value within limits for Na 589.592 Radial Recovery = 96.63%							
Ni 231.604†	41663.0	479.72 µg/L	1.203	479.72 ppb	1.203	0.25%	
QC value within limits for Ni 231.604 Recovery = 95.94%							
P 214.914†	11315.0	2411.8 µg/L	12.10	2411.8 ppb	12.10	0.50%	
QC value within limits for P 214.914 Recovery = 96.47%							
Pb 220.353†	8719.0	488.25 µg/L	1.215	488.25 ppb	1.215	0.25%	
QC value within limits for Pb 220.353 Recovery = 97.65%							
S 181.975 Axial†	1288.2	960.66 µg/L	6.158	960.66 ppb	6.158	0.64%	
QC value within limits for S 181.975 Axial Recovery = 96.07%							
Sb 206.836†	4053.9	483.08 µg/L	1.155	483.08 ppb	1.155	0.24%	
QC value within limits for Sb 206.836 Recovery = 96.62%							
Se 196.026†	1335.2	485 µg/L	3.6	485 ppb	3.6	0.74%	
QC value within limits for Se 196.026 Recovery = 96.96%							
SiO2†	53297.6	5188.7 µg/L	10.99	5188.7 ppb	10.99	0.21%	
QC value within limits for SiO2 Recovery = 97.03%							
Si 251.611†	165754.2	2434.1 µg/L	2.66	2434.1 ppb	2.66	0.11%	
QC value within limits for Si 251.611 Recovery = 97.36%							
Sn 189.927†	7765.4	485.71 µg/L	2.782	485.71 ppb	2.782	0.57%	
QC value within limits for Sn 189.927 Recovery = 97.14%							
Sr 421.552†	234474.7	487.42 µg/L	7.692	487.42 ppb	7.692	1.58%	
QC value within limits for Sr 421.552 Recovery = 97.48%							
Ti 334.940†	513756.2	479.37 µg/L	1.105	479.37 ppb	1.105	0.23%	
QC value within limits for Ti 334.940 Recovery = 95.87%							
Tl 190.801†	3949.2	492.42 µg/L	2.733	492.42 ppb	2.733	0.56%	
QC value within limits for Tl 190.801 Recovery = 98.48%							
U 409.014†	7518.8	468.68 µg/L	3.825	468.68 ppb	3.825	0.82%	
QC value within limits for U 409.014 Recovery = 93.74%							
V 292.402†	97493.1	481.98 µg/L	1.241	481.98 ppb	1.241	0.26%	
QC value within limits for V 292.402 Recovery = 96.40%							
Zn 213.857†	85530.5	476.69 µg/L	2.032	476.69 ppb	2.032	0.43%	
QC value within limits for Zn 213.857 Recovery = 95.34%							

All analyte(s) passed QC.

Sequence No.: 69

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/31/2010 21:57:52

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	143488.6	143488.6	98.3 %		21:58:23
1	Al 396.153Radial†	-31.2	31.5	5.8461 µg/L	5.8461 ppb	21:58:43
1	Ca 317.933Radial†	626.0	76.1	4.2401 µg/L	4.2401 ppb	21:58:43
1	Fe 238.204 Radial†	255.1	111.3	6.8602 µg/L	6.8602 ppb	21:58:43
1	K 766.490 Radial†	1658.0	141.4	51.764 µg/L	51.764 ppb	21:58:23
1	Mg 279.077 IEC†	183.2	-4.4	-1.6504 µg/L	-1.6504 ppb	21:58:43
1	Na 589.592 Radial†	1420.1	153.5	20.919 µg/L	20.919 ppb	21:58:23
1	Sr 421.552†	-123.6	9.6	0.0200 µg/L	0.0200 ppb	21:58:23
1	Sc 361.383	1741228.6	1741228.6	101.34 %		21:59:30
1	Y 371.029	1041005.9	1041005.9	101.39 %		21:59:30
1	Ag 328.068†	3951.0	-192.6	-0.7198 µg/L	-0.7198 ppb	21:59:33
1	As 188.979†	-17.3	3.3	0.9894 µg/L	0.9894 ppb	21:59:53
1	B 249.677†	3598.6	45.2	0.6651 µg/L	0.6651 ppb	21:59:33
1	Ba 233.527†	-97.3	39.9	0.1606 µg/L	0.1606 ppb	21:59:53
1	Be 313.107†	-658.8	414.6	0.1114 µg/L	0.1114 ppb	21:59:33
1	Cd 226.502†	-98.4	21.1	0.1311 µg/L	0.1311 ppb	21:59:53
1	Co 228.616†	-161.8	30.7	0.3780 µg/L	0.3780 ppb	21:59:53
1	Cr 267.716†	182.4	1.5	0.0155 µg/L	0.0155 ppb	21:59:53
1	Cu 324.752†	3144.1	130.4	0.5038 µg/L	0.5038 ppb	21:59:33
1	Mn 257.610†	336.5	94.8	0.1174 µg/L	0.1174 ppb	21:59:53
1	Mo 202.031†	-24.2	-3.8	-0.1104 µg/L	-0.1104 ppb	21:59:53
1	Ni 231.604†	-79.3	-1.7	-0.0200 µg/L	-0.0200 ppb	21:59:53
1	P 214.914†	-16.3	1.8	0.3858 µg/L	0.3858 ppb	21:59:53
1	Pb 220.353†	84.1	-3.4	-0.1849 µg/L	-0.1849 ppb	21:59:53
1	S 181.975 Axial†	105.7	-0.8	-0.5879 µg/L	-0.5879 ppb	21:59:53
1	Sb 206.836†	91.1	9.1	1.0753 µg/L	1.0753 ppb	21:59:53
1	Se 196.026†	16.7	1.2	0.419 µg/L	0.419 ppb	21:59:53
1	SiO2†	1811.1	11.8	1.1639 µg/L	1.1639 ppb	21:59:53
1	Si 251.611†	939.6	90.6	1.3388 µg/L	1.3388 ppb	21:59:33
1	Sn 189.927†	-4.7	-3.6	-0.2217 µg/L	-0.2217 ppb	21:59:53
1	Ti 334.940†	1178.8	210.6	0.1990 µg/L	0.1990 ppb	21:59:33
1	Tl 190.801†	-99.6	18.4	2.2591 µg/L	2.2591 ppb	21:59:53
1	U 409.014†	-357.9	-83.3	-4.8719 µg/L	-4.8719 ppb	21:59:33
1	V 292.402†	400.4	-8.7	-0.0477 µg/L	-0.0477 ppb	21:59:33
1	Zn 213.857†	586.5	14.3	0.0794 µg/L	0.0794 ppb	21:59:53
2	Sc RADIAL	142543.2	142543.2	97.7 %		21:58:45
2	Al 396.153Radial†	-54.4	7.5	1.4064 µg/L	1.4064 ppb	21:59:05
2	Ca 317.933Radial†	611.6	65.6	3.6535 µg/L	3.6535 ppb	21:59:05
2	Fe 238.204 Radial†	253.5	111.4	6.8653 µg/L	6.8653 ppb	21:59:05
2	K 766.490 Radial†	1678.4	173.5	63.518 µg/L	63.518 ppb	21:58:45
2	Mg 279.077 IEC†	176.5	-10.0	-3.7286 µg/L	-3.7286 ppb	21:59:05
2	Na 589.592 Radial†	1442.2	185.7	25.313 µg/L	25.313 ppb	21:58:45
2	Sr 421.552†	-245.0	-115.6	-0.2403 µg/L	-0.2403 ppb	21:58:45
2	Sc 361.383	1719454.2	1719454.2	100.07 %		21:59:55
2	Y 371.029	1027865.1	1027865.1	100.11 %		21:59:55
2	Ag 328.068†	4168.7	74.3	0.2835 µg/L	0.2835 ppb	21:59:57
2	As 188.979†	-13.3	7.1	2.1498 µg/L	2.1498 ppb	22:00:17
2	B 249.677†	3486.4	-22.0	-0.3249 µg/L	-0.3249 ppb	21:59:57
2	Ba 233.527†	-114.3	21.7	0.0871 µg/L	0.0871 ppb	22:00:17
2	Be 313.107†	-912.6	152.8	0.0438 µg/L	0.0438 ppb	21:59:57
2	Cd 226.502†	-107.0	11.3	0.0695 µg/L	0.0695 ppb	22:00:17
2	Co 228.616†	-180.3	10.1	0.1246 µg/L	0.1246 ppb	22:00:17
2	Cr 267.716†	201.1	22.4	0.1701 µg/L	0.1701 ppb	22:00:17
2	Cu 324.752†	3016.0	41.6	0.1688 µg/L	0.1688 ppb	21:59:57
2	Mn 257.610†	311.1	73.6	0.0912 µg/L	0.0912 ppb	22:00:17
2	Mo 202.031†	-34.1	-14.0	-0.4113 µg/L	-0.4113 ppb	22:00:17
2	Ni 231.604†	-98.0	-21.4	-0.2463 µg/L	-0.2463 ppb	22:00:17
2	P 214.914†	-36.4	-18.4	-3.9363 µg/L	-3.9363 ppb	22:00:17
2	Pb 220.353†	83.9	-2.5	-0.1482 µg/L	-0.1482 ppb	22:00:17

2	S 181.975 Axial†	99.2	-5.9	-4.3840 µg/L	-4.3840 ppb	22:00:17
2	Sb 206.836†	64.9	-16.0	-1.9121 µg/L	-1.9121 ppb	22:00:17
2	Se 196.026†	15.3	0.0	0.021 µg/L	0.021 ppb	22:00:17
2	SiO2†	1788.3	11.6	1.1476 µg/L	1.1476 ppb	22:00:17
2	Si 251.611†	930.7	93.5	1.3835 µg/L	1.3835 ppb	21:59:57
2	Sn 189.927†	-0.8	0.3	0.0189 µg/L	0.0189 ppb	22:00:17
2	Ti 334.940†	1073.2	119.9	0.1093 µg/L	0.1093 ppb	21:59:57
2	Tl 190.801†	-128.3	-11.5	-1.4187 µg/L	-1.4187 ppb	22:00:17
2	U 409.014†	-143.3	126.7	7.4052 µg/L	7.4052 ppb	21:59:57
2	V 292.402†	396.1	-8.0	-0.0385 µg/L	-0.0385 ppb	21:59:57
2	Zn 213.857†	572.5	7.7	0.0442 µg/L	0.0442 ppb	22:00:17
3	Sc RADIAL	144454.1	144454.1	99.0 %		21:59:07
3	Al 396.153Radial†	-50.8	11.9	2.2219 µg/L	2.2219 ppb	21:59:27
3	Ca 317.933Radial†	619.6	65.3	3.6394 µg/L	3.6394 ppb	21:59:27
3	Fe 238.204 Radial†	231.3	85.6	5.2750 µg/L	5.2750 ppb	21:59:27
3	K 766.490 Radial†	1512.1	-17.2	-6.3033 µg/L	-6.3033 ppb	21:59:07
3	Mg 279.077 IEC†	192.0	3.2	1.1976 µg/L	1.1976 ppb	21:59:27
3	Na 589.592 Radial†	1347.2	70.1	9.5868 µg/L	9.5868 ppb	21:59:07
3	Sr 421.552†	-129.4	4.5	0.0094 µg/L	0.0094 ppb	21:59:07
3	Sc 361.383	1726759.9	1726759.9	100.50 %		22:00:19
3	Y 371.029	1032580.6	1032580.6	100.57 %		22:00:19
3	Ag 328.068†	4194.8	82.6	0.3040 µg/L	0.3040 ppb	22:00:21
3	As 188.979†	-19.7	0.7	0.2129 µg/L	0.2129 ppb	22:00:41
3	B 249.677†	3651.6	127.6	1.8815 µg/L	1.8815 ppb	22:00:21
3	Ba 233.527†	-116.8	19.7	0.0794 µg/L	0.0794 ppb	22:00:41
3	Be 313.107†	-870.8	198.2	0.0524 µg/L	0.0524 ppb	22:00:21
3	Cd 226.502†	-85.6	33.0	0.2057 µg/L	0.2057 ppb	22:00:41
3	Co 228.616†	-171.1	20.1	0.2475 µg/L	0.2475 ppb	22:00:41
3	Cr 267.716†	156.8	-22.6	-0.1724 µg/L	-0.1724 ppb	22:00:41
3	Cu 324.752†	2930.7	-56.0	-0.2209 µg/L	-0.2209 ppb	22:00:21
3	Mn 257.610†	308.3	69.5	0.0859 µg/L	0.0859 ppb	22:00:41
3	Mo 202.031†	-28.4	-8.1	-0.2389 µg/L	-0.2389 ppb	22:00:41
3	Ni 231.604†	-67.6	9.2	0.1060 µg/L	0.1060 ppb	22:00:41
3	P 214.914†	-14.4	3.6	0.7813 µg/L	0.7813 ppb	22:00:41
3	Pb 220.353†	81.9	-4.8	-0.2670 µg/L	-0.2670 ppb	22:00:41
3	S 181.975 Axial†	100.0	-5.5	-4.1081 µg/L	-4.1081 ppb	22:00:41
3	Sb 206.836†	58.7	-22.4	-2.6589 µg/L	-2.6589 ppb	22:00:41
3	Se 196.026†	9.4	-5.9	-2.14 µg/L	-2.14 ppb	22:00:41
3	SiO2†	1781.8	-2.4	-0.2353 µg/L	-0.2353 ppb	22:00:41
3	Si 251.611†	974.4	133.0	1.9607 µg/L	1.9607 ppb	22:00:21
3	Sn 189.927†	6.8	7.8	0.4886 µg/L	0.4886 ppb	22:00:41
3	Ti 334.940†	1012.5	55.0	0.0535 µg/L	0.0535 ppb	22:00:21
3	Tl 190.801†	-115.8	1.4	0.1780 µg/L	0.1780 ppb	22:00:41
3	U 409.014†	-360.3	-88.6	-5.1619 µg/L	-5.1619 ppb	22:00:21
3	V 292.402†	483.1	77.0	0.3681 µg/L	0.3681 ppb	22:00:21
3	Zn 213.857†	572.8	5.5	0.0300 µg/L	0.0300 ppb	22:00:41

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1729147.6	100.64 %	0.645			0.64%
Sc RADIAL	143495.3	98.3 %	0.65			0.67%
Y 371.029	1033817.2	100.69 %	0.648			0.64%
Ag 328.068†	-11.9	-0.0441 µg/L	0.58526	-0.0441 ppb	0.58526	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	17.0	3.1581 µg/L	2.36331	3.1581 ppb	2.36331	74.83%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.7	1.1173 µg/L	0.97478	1.1173 ppb	0.97478	87.24%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	50.3	0.7405 µg/L	1.10513	0.7405 ppb	1.10513	149.23%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	27.1	0.1090 µg/L	0.04480	0.1090 ppb	0.04480	41.10%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	255.2	0.0692 µg/L	0.03680	0.0692 ppb	0.03680	53.16%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	69.0	3.8443 µg/L	0.34280	3.8443 ppb	0.34280	8.92%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	21.8	0.1354 µg/L	0.06821	0.1354 ppb	0.06821	50.36%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	20.3	0.2500 µg/L	0.12669	0.2500 ppb	0.12669	50.67%



QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	0.4	0.0044 µg/L	0.17156 0.0044 ppb 0.17156 >999.9%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	38.7	0.1505 µg/L	0.36269 0.1505 ppb 0.36269 240.92%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	102.8	6.3335 µg/L	0.91666 6.3335 ppb 0.91666 14.47%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	99.2	36.326 µg/L	37.3832 36.326 ppb 37.3832 102.91%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-3.7	-1.3938 µg/L	2.47310 -1.3938 ppb 2.47310 177.43%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	79.3	0.0982 µg/L	0.01685 0.0982 ppb 0.01685 17.17%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-8.6	-0.2535 µg/L	0.15099 -0.2535 ppb 0.15099 59.56%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	136.4	18.606 µg/L	8.1142 18.606 ppb 8.1142 43.61%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-4.6	-0.0534 µg/L	0.17854 -0.0534 ppb 0.17854 334.31%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	-4.3	-0.9231 µg/L	2.61701 -0.9231 ppb 2.61701 283.51%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-3.6	-0.2000 µg/L	0.06080 -0.2000 ppb 0.06080 30.40%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-4.1	-3.0267 µg/L	2.11654 -3.0267 ppb 2.11654 69.93%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	-9.8	-1.1652 µg/L	1.97594 -1.1652 ppb 1.97594 169.57%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	-1.6	-0.566 µg/L	1.3761 -0.566 ppb 1.3761 243.25%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	7.0	0.6921 µg/L	0.80317 0.6921 ppb 0.80317 116.05%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	105.7	1.5610 µg/L	0.34690 1.5610 ppb 0.34690 22.22%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	1.5	0.0953 µg/L	0.36125 0.0953 ppb 0.36125 379.10%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-33.8	-0.0703 µg/L	0.14733 -0.0703 ppb 0.14733 209.53%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	128.5	0.1206 µg/L	0.07341 0.1206 ppb 0.07341 60.86%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	2.8	0.3394 µg/L	1.84422 0.3394 ppb 1.84422 543.31%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-15.1	-0.8762 µg/L	7.17337 -0.8762 ppb 7.17337 818.68%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	20.1	0.0940 µg/L	0.23744 0.0940 ppb 0.23744 252.67%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	9.2	0.0512 µg/L	0.02545 0.0512 ppb 0.02545 49.72%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 77

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/31/2010 22:12:55

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Conc. Units	Sample Units	Analysis Time
1	Sc RADIAL	144265.2	144265.2	98.9	%			22:13:29
1	Al 396.153Radial†	26382.4	26750.0	4937.0	µg/L	4937.0	ppb	22:13:29
1	Ca 317.933Radial†	86791.9	87232.7	4859.2	µg/L	4859.2	ppb	22:13:29
1	Fe 238.204 Radial†	77447.1	78192.6	4819.3	µg/L	4819.3	ppb	22:13:29
1	K 766.490 Radial†	14619.5	13243.4	4844.7	µg/L	4844.7	ppb	22:13:29
1	Mg 279.077 IEC†	13211.3	13173.0	4915.8	µg/L	4915.8	ppb	22:13:29
1	Na 589.592 Radial†	70822.8	70349.2	9606.2	µg/L	9606.2	ppb	22:13:29
1	Sr 421.552†	230249.1	233041.1	484.44	µg/L	484.44	ppb	22:13:27
1	Sc 361.383	1718218.3	1718218.3	100.00	%			22:13:42
1	Y 371.029	1017558.5	1017558.5	99.111	%			22:13:42
1	Ag 328.068†	131861.6	127770.2	479.08	µg/L	479.08	ppb	22:13:42
1	As 188.979†	1610.7	1631.1	500.23	µg/L	500.23	ppb	22:14:02
1	B 249.677†	35422.2	31916.3	469.05	µg/L	469.05	ppb	22:13:42
1	Ba 233.527†	118202.1	118337.9	477.26	µg/L	477.26	ppb	22:13:42
1	Be 313.107†	1762457.8	1763521.9	480.31	µg/L	480.31	ppb	22:13:42
1	Cd 226.502†	75826.8	75945.0	474.08	µg/L	474.08	ppb	22:13:42
1	Co 228.616†	38510.6	38700.9	477.76	µg/L	477.76	ppb	22:13:42
1	Cr 267.716†	60814.9	60636.3	474.77	µg/L	474.77	ppb	22:13:42
1	Cu 324.752†	125406.1	122433.9	477.29	µg/L	477.29	ppb	22:13:42
1	Mn 257.610†	388459.2	388221.8	480.14	µg/L	480.14	ppb	22:13:42
1	Mo 202.031†	16438.1	16458.2	484.12	µg/L	484.12	ppb	22:14:02
1	Ni 231.604†	41348.4	41424.9	476.98	µg/L	476.98	ppb	22:13:42
1	P 214.914†	11268.3	11286.3	2405.7	µg/L	2405.7	ppb	22:14:02
1	Pb 220.353†	8791.6	8705.2	487.48	µg/L	487.48	ppb	22:14:02
1	S 181.975 Axial†	1392.6	1287.6	960.21	µg/L	960.21	ppb	22:14:02
1	Sb 206.836†	4153.0	4072.2	485.30	µg/L	485.30	ppb	22:14:02
1	Se 196.026†	1350.2	1334.9	485	µg/L	485	ppb	22:14:02
1	SiO2†	54803.6	53028.2	5162.3	µg/L	5162.3	ppb	22:13:42
1	Si 251.611†	165311.8	164475.2	2415.2	µg/L	2415.2	ppb	22:13:42
1	Sn 189.927†	7742.7	7743.8	484.36	µg/L	484.36	ppb	22:14:02
1	Ti 334.940†	513691.3	512738.5	478.42	µg/L	478.42	ppb	22:13:42
1	Tl 190.801†	3841.3	3958.0	493.49	µg/L	493.49	ppb	22:14:02
1	U 409.014†	7369.5	7639.3	475.58	µg/L	475.58	ppb	22:13:42
1	V 292.402†	97334.2	96930.4	479.25	µg/L	479.25	ppb	22:13:42
1	Zn 213.857†	85434.2	84869.8	473.01	µg/L	473.01	ppb	22:13:42
2	Sc RADIAL	145847.8	145847.8	99.9	%			22:13:33
2	Al 396.153Radial†	26431.3	26509.4	4892.7	µg/L	4892.7	ppb	22:13:33
2	Ca 317.933Radial†	87616.4	87105.0	4852.1	µg/L	4852.1	ppb	22:13:33
2	Fe 238.204 Radial†	78290.7	78186.6	4818.9	µg/L	4818.9	ppb	22:13:33
2	K 766.490 Radial†	14711.5	13175.0	4819.6	µg/L	4819.6	ppb	22:13:33
2	Mg 279.077 IEC†	13383.0	13199.9	4925.6	µg/L	4925.6	ppb	22:13:33
2	Na 589.592 Radial†	71537.8	70287.2	9597.8	µg/L	9597.8	ppb	22:13:33
2	Sr 421.552†	230007.1	230271.7	478.68	µg/L	478.68	ppb	22:13:31
2	Sc 361.383	1739608.4	1739608.4	101.24	%			22:14:05
2	Y 371.029	1028848.9	1028848.9	100.21	%			22:14:05
2	Ag 328.068†	134324.7	128581.6	482.14	µg/L	482.14	ppb	22:14:05
2	As 188.979†	1606.6	1607.2	493.02	µg/L	493.02	ppb	22:14:25
2	B 249.677†	36291.4	32339.3	475.28	µg/L	475.28	ppb	22:14:05
2	Ba 233.527†	120672.3	119324.3	481.23	µg/L	481.23	ppb	22:14:05
2	Be 313.107†	1801555.4	1780467.6	484.92	µg/L	484.92	ppb	22:14:05
2	Cd 226.502†	77540.6	76705.4	478.83	µg/L	478.83	ppb	22:14:05
2	Co 228.616†	39324.4	39031.1	481.84	µg/L	481.84	ppb	22:14:05
2	Cr 267.716†	61962.6	61022.1	477.79	µg/L	477.79	ppb	22:14:05
2	Cu 324.752†	127723.3	123180.5	480.19	µg/L	480.19	ppb	22:14:05
2	Mn 257.610†	396691.5	391576.4	484.29	µg/L	484.29	ppb	22:14:05
2	Mo 202.031†	16408.8	16227.1	477.33	µg/L	477.33	ppb	22:14:25
2	Ni 231.604†	42066.6	41625.8	479.29	µg/L	479.29	ppb	22:14:05
2	P 214.914†	11256.1	11135.6	2373.5	µg/L	2373.5	ppb	22:14:25
2	Pb 220.353†	8760.6	8566.5	479.72	µg/L	479.72	ppb	22:14:25

2	S 181.975 Axial†	1379.1	1257.1	937.49 µg/L	937.49 ppb	22:14:25
2	Sb 206.836†	4126.7	3995.1	476.00 µg/L	476.00 ppb	22:14:25
2	Se 196.026†	1344.9	1313.1	477 µg/L	477 ppb	22:14:25
2	SiO2†	55878.0	53415.5	5200.4 µg/L	5200.4 ppb	22:14:05
2	Si 251.611†	168787.2	165875.2	2436.0 µg/L	2436.0 ppb	22:14:05
2	Sn 189.927†	7780.5	7685.9	480.76 µg/L	480.76 ppb	22:14:25
2	Ti 334.940†	523148.0	515762.7	481.24 µg/L	481.24 ppb	22:14:05
2	Tl 190.801†	3840.1	3909.5	487.59 µg/L	487.59 ppb	22:14:25
2	U 409.014†	7476.8	7654.7	476.77 µg/L	476.77 ppb	22:14:05
2	V 292.402†	99532.4	97904.8	483.95 µg/L	483.95 ppb	22:14:05
2	Zn 213.857†	87491.3	85851.1	478.50 µg/L	478.50 ppb	22:14:05
3	Sc RADIAL	145510.3	145510.3	99.7 %		22:13:37
3	Al 396.153Radial†	26649.3	26789.4	4944.6 µg/L	4944.6 ppb	22:13:37
3	Ca 317.933Radial†	87905.2	87598.0	4879.6 µg/L	4879.6 ppb	22:13:37
3	Fe 238.204 Radial†	78514.4	78592.6	4844.0 µg/L	4844.0 ppb	22:13:37
3	K 766.490 Radial†	14626.3	13123.7	4800.8 µg/L	4800.8 ppb	22:13:37
3	Mg 279.077 IEC†	13367.9	13215.7	4931.5 µg/L	4931.5 ppb	22:13:37
3	Na 589.592 Radial†	71662.6	70578.3	9637.6 µg/L	9637.6 ppb	22:13:37
3	Sr 421.552†	228923.8	229719.0	477.53 µg/L	477.53 ppb	22:13:35
3	Sc 361.383	1738267.6	1738267.6	101.17 %		22:14:28
3	Y 371.029	1027936.3	1027936.3	100.12 %		22:14:28
3	Ag 328.068†	134212.1	128572.7	482.09 µg/L	482.09 ppb	22:14:28
3	As 188.979†	1598.1	1600.0	490.84 µg/L	490.84 ppb	22:14:48
3	B 249.677†	36163.6	32240.6	473.82 µg/L	473.82 ppb	22:14:28
3	Ba 233.527†	120556.5	119301.7	481.14 µg/L	481.14 ppb	22:14:28
3	Be 313.107†	1796851.1	1777190.1	484.03 µg/L	484.03 ppb	22:14:28
3	Cd 226.502†	77464.7	76689.4	478.73 µg/L	478.73 ppb	22:14:28
3	Co 228.616†	39399.0	39134.9	483.12 µg/L	483.12 ppb	22:14:28
3	Cr 267.716†	61725.8	60835.3	476.33 µg/L	476.33 ppb	22:14:28
3	Cu 324.752†	127349.1	122907.9	479.13 µg/L	479.13 ppb	22:14:28
3	Mn 257.610†	395160.9	390365.7	482.79 µg/L	482.79 ppb	22:14:28
3	Mo 202.031†	16361.5	16192.8	476.33 µg/L	476.33 ppb	22:14:48
3	Ni 231.604†	41980.9	41573.2	478.68 µg/L	478.68 ppb	22:14:28
3	P 214.914†	11184.1	11073.0	2360.1 µg/L	2360.1 ppb	22:14:48
3	Pb 220.353†	8741.7	8554.5	479.05 µg/L	479.05 ppb	22:14:48
3	S 181.975 Axial†	1393.5	1272.4	948.88 µg/L	948.88 ppb	22:14:48
3	Sb 206.836†	4119.1	3990.8	475.48 µg/L	475.48 ppb	22:14:48
3	Se 196.026†	1344.8	1314.0	477 µg/L	477 ppb	22:14:48
3	SiO2†	55631.5	53214.4	5180.9 µg/L	5180.9 ppb	22:14:28
3	Si 251.611†	168426.4	165647.1	2432.6 µg/L	2432.6 ppb	22:14:28
3	Sn 189.927†	7707.1	7619.3	476.60 µg/L	476.60 ppb	22:14:48
3	Ti 334.940†	521295.0	514329.6	479.91 µg/L	479.91 ppb	22:14:28
3	Tl 190.801†	3816.8	3889.5	485.09 µg/L	485.09 ppb	22:14:48
3	U 409.014†	7397.3	7581.9	472.42 µg/L	472.42 ppb	22:14:28
3	V 292.402†	99170.7	97623.1	482.55 µg/L	482.55 ppb	22:14:28
3	Zn 213.857†	87280.4	85709.2	477.71 µg/L	477.71 ppb	22:14:28

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1732031.4	100.80 %	0.697			0.69%
Sc RADIAL	145207.8	99.5 %	0.57			0.57%
Y 371.029	1024781.2	99.814 %	0.6109			0.61%
Ag 328.068†	128308.2	481.10 µg/L	1.752	481.10 ppb	1.752	0.36%
QC value within limits for Ag 328.068 Recovery = 96.22%						
Al 396.153Radial†	26682.9	4924.7 µg/L	28.05	4924.7 ppb	28.05	0.57%
QC value within limits for Al 396.153Radial Recovery = 98.49%						
As 188.979†	1612.8	494.70 µg/L	4.918	494.70 ppb	4.918	0.99%
QC value within limits for As 188.979 Recovery = 98.94%						
B 249.677†	32165.4	472.71 µg/L	3.255	472.71 ppb	3.255	0.69%
QC value within limits for B 249.677 Recovery = 94.54%						
Ba 233.527†	118988.0	479.88 µg/L	2.269	479.88 ppb	2.269	0.47%
QC value within limits for Ba 233.527 Recovery = 95.98%						
Be 313.107†	1773726.5	483.09 µg/L	2.447	483.09 ppb	2.447	0.51%
QC value within limits for Be 313.107 Recovery = 96.62%						
Ca 317.933Radial†	87311.9	4863.6 µg/L	14.25	4863.6 ppb	14.25	0.29%
QC value within limits for Ca 317.933Radial Recovery = 97.27%						
Cd 226.502†	76446.6	477.21 µg/L	2.714	477.21 ppb	2.714	0.57%
QC value within limits for Cd 226.502 Recovery = 95.44%						
Co 228.616†	38955.6	480.91 µg/L	2.798	480.91 ppb	2.798	0.58%

QC value within limits for Co 228.616 Recovery = 96.18%							
Cr 267.716†	60831.2	476.30 µg/L	1.512	476.30 ppb	1.512	0.32%	
QC value within limits for Cr 267.716 Recovery = 95.26%							
Cu 324.752†	122840.8	478.87 µg/L	1.470	478.87 ppb	1.470	0.31%	
QC value within limits for Cu 324.752 Recovery = 95.77%							
Fe 238.204 Radial†	78324.0	4827.4 µg/L	14.34	4827.4 ppb	14.34	0.30%	
QC value within limits for Fe 238.204 Radial Recovery = 96.55%							
K 766.490 Radial†	13180.7	4821.7 µg/L	21.99	4821.7 ppb	21.99	0.46%	
QC value within limits for K 766.490 Radial Recovery = 96.43%							
Mg 279.077 IEC†	13196.2	4924.3 µg/L	7.93	4924.3 ppb	7.93	0.16%	
QC value within limits for Mg 279.077 IEC Recovery = 98.49%							
Mn 257.610†	390054.6	482.41 µg/L	2.102	482.41 ppb	2.102	0.44%	
QC value within limits for Mn 257.610 Recovery = 96.48%							
Mo 202.031†	16292.7	479.26 µg/L	4.241	479.26 ppb	4.241	0.88%	
QC value within limits for Mo 202.031 Recovery = 95.85%							
Na 589.592 Radial†	70404.9	9613.9 µg/L	20.97	9613.9 ppb	20.97	0.22%	
QC value within limits for Na 589.592 Radial Recovery = 96.14%							
Ni 231.604†	41541.3	478.32 µg/L	1.200	478.32 ppb	1.200	0.25%	
QC value within limits for Ni 231.604 Recovery = 95.66%							
P 214.914†	11165.0	2379.7 µg/L	23.45	2379.7 ppb	23.45	0.99%	
QC value within limits for P 214.914 Recovery = 95.19%							
Pb 220.353†	8608.8	482.08 µg/L	4.685	482.08 ppb	4.685	0.97%	
QC value within limits for Pb 220.353 Recovery = 96.42%							
S 181.975 Axial†	1272.4	948.86 µg/L	11.360	948.86 ppb	11.360	1.20%	
QC value within limits for S 181.975 Axial Recovery = 94.89%							
Sb 206.836†	4019.3	478.92 µg/L	5.524	478.92 ppb	5.524	1.15%	
QC value within limits for Sb 206.836 Recovery = 95.78%							
Se 196.026†	1320.7	480 µg/L	4.5	480 ppb	4.5	0.93%	
QC value within limits for Se 196.026 Recovery = 95.91%							
SiO2†	53219.4	5181.2 µg/L	19.05	5181.2 ppb	19.05	0.37%	
QC value within limits for SiO2 Recovery = 96.89%							
Si 251.611†	165332.5	2427.9 µg/L	11.15	2427.9 ppb	11.15	0.46%	
QC value within limits for Si 251.611 Recovery = 97.12%							
Sn 189.927†	7683.0	480.57 µg/L	3.879	480.57 ppb	3.879	0.81%	
QC value within limits for Sn 189.927 Recovery = 96.11%							
Sr 421.552†	231010.6	480.22 µg/L	3.701	480.22 ppb	3.701	0.77%	
QC value within limits for Sr 421.552 Recovery = 96.04%							
Ti 334.940†	514276.9	479.86 µg/L	1.412	479.86 ppb	1.412	0.29%	
QC value within limits for Ti 334.940 Recovery = 95.97%							
Tl 190.801†	3919.0	488.72 µg/L	4.311	488.72 ppb	4.311	0.88%	
QC value within limits for Tl 190.801 Recovery = 97.74%							
U 409.014†	7625.3	474.92 µg/L	2.247	474.92 ppb	2.247	0.47%	
QC value within limits for U 409.014 Recovery = 94.98%							
V 292.402†	97486.1	481.92 µg/L	2.411	481.92 ppb	2.411	0.50%	
QC value within limits for V 292.402 Recovery = 96.38%							
Zn 213.857†	85476.7	476.40 µg/L	2.970	476.40 ppb	2.970	0.62%	
QC value within limits for Zn 213.857 Recovery = 95.28%							
All analyte(s) passed QC.							

Sequence No.: 78

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/31/2010 22:14:56

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	144616.5	144616.5	99.1 %		22:15:27
1	Al 396.153Radial†	-140.4	-78.5	-14.533 µg/L	-14.533 ppb	22:15:27
1	Ca 317.933Radial†	605.1	50.0	2.7853 µg/L	2.7853 ppb	22:15:47
1	Fe 238.204 Radial†	190.6	44.2	2.7255 µg/L	2.7255 ppb	22:15:47
1	K 766.490 Radial†	1690.5	161.1	58.992 µg/L	58.992 ppb	22:15:27
1	Mg 279.077 IEC†	189.8	0.8	0.2999 µg/L	0.2999 ppb	22:15:47
1	Na 589.592 Radial†	1316.3	37.4	5.0628 µg/L	5.0628 ppb	22:15:27
1	Sr 421.552†	-196.7	-63.2	-0.1315 µg/L	-0.1315 ppb	22:15:27
1	Sc 361.383	1731481.4	1731481.4	100.77 %		22:16:34
1	Y 371.029	1035707.2	1035707.2	100.88 %		22:16:34
1	Ag 328.068†	4207.6	84.0	0.3025 µg/L	0.3025 ppb	22:16:37
1	As 188.979†	-21.2	-0.7	-0.1971 µg/L	-0.1971 ppb	22:16:57
1	B 249.677†	3625.9	92.2	1.3590 µg/L	1.3590 ppb	22:16:37
1	Ba 233.527†	-157.7	-20.7	-0.0841 µg/L	-0.0841 ppb	22:16:57
1	Be 313.107†	-910.7	160.9	0.0444 µg/L	0.0444 ppb	22:16:37
1	Cd 226.502†	-114.4	4.7	0.0290 µg/L	0.0290 ppb	22:16:57
1	Co 228.616†	-176.3	15.4	0.1898 µg/L	0.1898 ppb	22:16:57
1	Cr 267.716†	195.1	15.0	0.1155 µg/L	0.1155 ppb	22:16:57
1	Cu 324.752†	2860.5	-133.6	-0.5170 µg/L	-0.5170 ppb	22:16:37
1	Mn 257.610†	321.7	82.0	0.1014 µg/L	0.1014 ppb	22:16:57
1	Mo 202.031†	-34.6	-14.3	-0.4198 µg/L	-0.4198 ppb	22:16:57
1	Ni 231.604†	-65.6	11.4	0.1312 µg/L	0.1312 ppb	22:16:57
1	P 214.914†	-28.4	-10.2	-2.1783 µg/L	-2.1783 ppb	22:16:57
1	Pb 220.353†	66.3	-20.6	-1.1536 µg/L	-1.1536 ppb	22:16:57
1	Sb 181.975 Axial†	101.3	-4.5	-3.3505 µg/L	-3.3505 ppb	22:16:57
1	Sb 206.836†	79.6	-1.9	-0.2288 µg/L	-0.2288 ppb	22:16:57
1	Se 196.026†	12.5	-2.8	-1.02 µg/L	-1.02 ppb	22:16:57
1	SiO2†	1786.4	-2.7	-0.2591 µg/L	-0.2591 ppb	22:16:57
1	Si 251.611†	1082.1	237.2	3.4988 µg/L	3.4988 ppb	22:16:37
1	Sn 189.927†	9.2	10.2	0.6390 µg/L	0.6390 ppb	22:16:57
1	Ti 334.940†	1075.1	114.3	0.1060 µg/L	0.1060 ppb	22:16:37
1	Tl 190.801†	-105.3	12.2	1.4953 µg/L	1.4953 ppb	22:16:57
1	U 409.014†	-238.6	33.2	1.8871 µg/L	1.8871 ppb	22:16:37
1	V 292.402†	220.7	-184.8	-0.9046 µg/L	-0.9046 ppb	22:16:37
1	Zn 213.857†	605.7	36.6	0.2048 µg/L	0.2048 ppb	22:16:57
2	Sc RADIAL	144344.2	144344.2	98.9 %		22:15:49
2	Al 396.153Radial†	-228.5	-167.8	-31.103 µg/L	-31.103 ppb	22:15:49
2	Ca 317.933Radial†	612.9	59.1	3.2922 µg/L	3.2922 ppb	22:16:09
2	Fe 238.204 Radial†	199.9	54.0	3.3254 µg/L	3.3254 ppb	22:16:09
2	K 766.490 Radial†	1458.2	-70.5	-25.815 µg/L	-25.815 ppb	22:15:49
2	Mg 279.077 IEC†	169.1	-19.8	-7.3659 µg/L	-7.3659 ppb	22:16:09
2	Na 589.592 Radial†	1297.4	20.8	2.8708 µg/L	2.8708 ppb	22:15:49
2	Sr 421.552†	-320.5	-188.8	-0.3925 µg/L	-0.3925 ppb	22:15:49
2	Sc 361.383	1722284.8	1722284.8	100.24 %		22:16:59
2	Y 371.029	1030621.8	1030621.8	100.38 %		22:16:59
2	Ag 328.068†	3896.9	-203.7	-0.7475 µg/L	-0.7475 ppb	22:17:01
2	As 188.979†	-7.9	12.5	3.7833 µg/L	3.7833 ppb	22:17:21
2	B 249.677†	3506.6	-7.6	-0.1120 µg/L	-0.1120 ppb	22:17:01
2	Ba 233.527†	-125.5	10.7	0.0428 µg/L	0.0428 ppb	22:17:21
2	Be 313.107†	-756.3	310.2	0.0866 µg/L	0.0866 ppb	22:17:01
2	Cd 226.502†	-110.8	7.7	0.0475 µg/L	0.0475 ppb	22:17:21
2	Co 228.616†	-191.9	-1.2	-0.0145 µg/L	-0.0145 ppb	22:17:21
2	Cr 267.716†	200.7	21.6	0.1639 µg/L	0.1639 ppb	22:17:21
2	Cu 324.752†	2989.4	10.2	0.0458 µg/L	0.0458 ppb	22:17:01
2	Mn 257.610†	314.3	76.3	0.0947 µg/L	0.0947 ppb	22:17:21
2	Mo 202.031†	-21.3	-1.1	-0.0337 µg/L	-0.0337 ppb	22:17:21
2	Ni 231.604†	-74.0	2.7	0.0313 µg/L	0.0313 ppb	22:17:21
2	P 214.914†	-16.7	1.3	0.2808 µg/L	0.2808 ppb	22:17:21
2	Pb 220.353†	91.3	4.7	0.2555 µg/L	0.2555 ppb	22:17:21

2	S 181.975 Axial†	95.8	-9.5	-7.0189 µg/L	-7.0189 ppb	22:17:21
2	Sb 206.836†	59.0	-22.0	-2.6184 µg/L	-2.6184 ppb	22:17:21
2	Se 196.026†	19.9	4.6	1.68 µg/L	1.68 ppb	22:17:21
2	SiO2†	1789.5	9.9	0.9655 µg/L	0.9655 ppb	22:17:21
2	Si 251.611†	1004.6	165.6	2.4397 µg/L	2.4397 ppb	22:17:01
2	Sn 189.927†	5.2	6.3	0.3919 µg/L	0.3919 ppb	22:17:21
2	Ti 334.940†	826.1	-128.4	-0.1222 µg/L	-0.1222 ppb	22:17:01
2	Tl 190.801†	-126.0	-9.1	-1.1150 µg/L	-1.1150 ppb	22:17:21
2	U 409.014†	-147.1	123.1	7.1898 µg/L	7.1898 ppb	22:17:01
2	V 292.402†	373.1	-31.5	-0.1489 µg/L	-0.1489 ppb	22:17:01
2	Zn 213.857†	593.5	27.6	0.1540 µg/L	0.1540 ppb	22:17:21
3	Sc RADIAL	145056.9	145056.9	99.4 %		22:16:11
3	Al 396.153Radial†	-231.1	-169.3	-31.367 µg/L	-31.367 ppb	22:16:11
3	Ca 317.933Radial†	599.6	42.6	2.3739 µg/L	2.3739 ppb	22:16:31
3	Fe 238.204 Radial†	195.6	48.6	2.9983 µg/L	2.9983 ppb	22:16:31
3	K 766.490 Radial†	1826.4	292.6	107.12 µg/L	107.12 ppb	22:16:11
3	Mg 279.077 IEC†	196.4	6.8	2.5372 µg/L	2.5372 ppb	22:16:31
3	Na 589.592 Radial†	1266.4	-16.8	-2.3909 µg/L	-2.3909 ppb	22:16:11
3	Sr 421.552†	-165.7	-31.4	-0.0654 µg/L	-0.0654 ppb	22:16:11
3	Sc 361.383	1742676.0	1742676.0	101.42 %		22:17:23
3	Y 371.029	1041139.7	1041139.7	101.41 %		22:17:23
3	Ag 328.068†	4264.5	113.3	0.4163 µg/L	0.4163 ppb	22:17:25
3	As 188.979†	-11.3	9.2	2.7834 µg/L	2.7834 ppb	22:17:45
3	B 249.677†	3554.8	-1.0	-0.0144 µg/L	-0.0144 ppb	22:17:25
3	Ba 233.527†	-135.5	2.2	0.0087 µg/L	0.0087 ppb	22:17:45
3	Be 313.107†	-714.6	360.1	0.0972 µg/L	0.0972 ppb	22:17:25
3	Cd 226.502†	-111.8	8.0	0.0493 µg/L	0.0493 ppb	22:17:45
3	Co 228.616†	-185.9	7.0	0.0867 µg/L	0.0867 ppb	22:17:45
3	Cr 267.716†	198.7	17.4	0.1382 µg/L	0.1382 ppb	22:17:45
3	Cu 324.752†	2855.8	-156.5	-0.6100 µg/L	-0.6100 ppb	22:17:25
3	Mn 257.610†	318.4	76.7	0.0948 µg/L	0.0948 ppb	22:17:45
3	Mo 202.031†	-37.1	-16.5	-0.4859 µg/L	-0.4859 ppb	22:17:45
3	Ni 231.604†	-94.7	-16.9	-0.1940 µg/L	-0.1940 ppb	22:17:45
3	P 214.914†	-18.0	0.2	0.0565 µg/L	0.0565 ppb	22:17:45
3	Pb 220.353†	70.5	-16.9	-0.9439 µg/L	-0.9439 ppb	22:17:45
3	S 181.975 Axial†	101.6	-4.9	-3.6429 µg/L	-3.6429 ppb	22:17:45
3	Sb 206.836†	72.7	-9.2	-1.0967 µg/L	-1.0967 ppb	22:17:45
3	Se 196.026†	9.5	-5.9	-2.14 µg/L	-2.14 ppb	22:17:45
3	SiO2†	1777.4	-22.9	-2.2297 µg/L	-2.2297 ppb	22:17:45
3	Si 251.611†	827.6	-20.5	-0.2986 µg/L	-0.2986 ppb	22:17:25
3	Sn 189.927†	4.4	5.4	0.3390 µg/L	0.3390 ppb	22:17:45
3	Ti 334.940†	1103.2	135.2	0.1273 µg/L	0.1273 ppb	22:17:25
3	Tl 190.801†	-112.8	5.5	0.6715 µg/L	0.6715 ppb	22:17:45
3	U 409.014†	-323.3	-48.8	-2.8536 µg/L	-2.8536 ppb	22:17:25
3	V 292.402†	418.1	8.4	0.0344 µg/L	0.0344 ppb	22:17:25
3	Zn 213.857†	602.9	30.0	0.1695 µg/L	0.1695 ppb	22:17:45

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1732147.4	100.81 %		0.594			0.59%
Sc RADIAL	144672.5	99.1 %		0.25			0.25%
Y 371.029	1035822.9	100.89 %		0.512			0.51%
Ag 328.068†	-2.2	-0.0096 µg/L		0.64157	-0.0096 ppb	0.64157	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-138.5	-25.667 µg/L		9.6439	-25.667 ppb	9.6439	37.57%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	7.0	2.1232 µg/L		2.07069	2.1232 ppb	2.07069	97.53%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	27.9	0.4109 µg/L		0.82253	0.4109 ppb	0.82253	200.20%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-2.6	-0.0109 µg/L		0.06567	-0.0109 ppb	0.06567	605.19%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	277.1	0.0761 µg/L		0.02793	0.0761 ppb	0.02793	36.72%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	50.6	2.8171 µg/L		0.45995	2.8171 ppb	0.45995	16.33%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	6.8	0.0420 µg/L		0.01123	0.0420 ppb	0.01123	26.78%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	7.1	0.0873 µg/L		0.10216	0.0873 ppb	0.10216	116.98%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	18.0	0.1392 µg/L	0.02421	0.1392 ppb	0.02421	17.39%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-93.3	-0.3604 µg/L	0.35483	-0.3604 ppb	0.35483	98.44%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	48.9	3.0164 µg/L	0.30037	3.0164 ppb	0.30037	9.96%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	127.7	46.766 µg/L	67.3062	46.766 ppb	67.3062	143.92%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-4.0	-1.5096 µg/L	5.19362	-1.5096 ppb	5.19362	344.04%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	78.3	0.0969 µg/L	0.00386	0.0969 ppb	0.00386	3.98%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-10.7	-0.3132 µg/L	0.24424	-0.3132 ppb	0.24424	77.99%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	13.8	1.8476 µg/L	3.83078	1.8476 ppb	3.83078	207.34%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-0.9	-0.0105 µg/L	0.16660	-0.0105 ppb	0.16660	>999.9%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-2.9	-0.6137 µg/L	1.35968	-0.6137 ppb	1.35968	221.57%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-10.9	-0.6140 µg/L	0.76029	-0.6140 ppb	0.76029	123.82%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-6.3	-4.6708 µg/L	2.03882	-4.6708 ppb	2.03882	43.65%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-11.0	-1.3147 µg/L	1.20959	-1.3147 ppb	1.20959	92.01%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-1.4	-0.495 µg/L	1.9625	-0.495 ppb	1.9625	396.16%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-5.2	-0.5078 µg/L	1.61206	-0.5078 ppb	1.61206	317.46%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	127.4	1.8800 µg/L	1.95958	1.8800 ppb	1.95958	104.24%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	7.3	0.4566 µg/L	0.16011	0.4566 ppb	0.16011	35.06%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-94.5	-0.1965 µg/L	0.17296	-0.1965 ppb	0.17296	88.04%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	40.4	0.0370 µg/L	0.13834	0.0370 ppb	0.13834	373.72%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	2.9	0.3506 µg/L	1.33442	0.3506 ppb	1.33442	380.62%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	35.8	2.0744 µg/L	5.02435	2.0744 ppb	5.02435	242.20%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-69.3	-0.3397 µg/L	0.49772	-0.3397 ppb	0.49772	146.53%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	31.4	0.1761 µg/L	0.02602	0.1761 ppb	0.02602	14.78%	
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 87

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/31/2010 22:35:22

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	146768.4	146768.4	101 %		22:35:57
1	Al 396.153Radial†	26541.6	26453.2	4882.0 µg/L	4882.0 ppb	22:35:57
1	Ca 317.933Radial†	87649.0	86587.6	4823.3 µg/L	4823.3 ppb	22:35:57
1	Fe 238.204 Radial†	78561.3	77964.3	4805.2 µg/L	4805.2 ppb	22:35:57
1	K 766.490 Radial†	14622.8	12994.5	4753.5 µg/L	4753.5 ppb	22:35:57
1	Mg 279.077 IEC†	13408.4	13141.1	4903.8 µg/L	4903.8 ppb	22:35:57
1	Na 589.592 Radial†	71672.4	69972.1	9554.8 µg/L	9554.8 ppb	22:35:57
1	Sr 421.552†	232413.6	231220.9	480.66 µg/L	480.66 ppb	22:35:55
1	Sc 361.383	1722923.1	1722923.1	100.27 %		22:36:24
1	Y 371.029	1019811.3	1019811.3	99.330 %		22:36:24
1	Ag 328.068†	132254.4	127801.8	479.17 µg/L	479.17 ppb	22:36:24
1	As 188.979†	1604.2	1620.1	496.89 µg/L	496.89 ppb	22:36:44
1	B 249.677†	35283.6	31681.3	465.60 µg/L	465.60 ppb	22:36:24
1	Ba 233.527†	118323.2	118135.9	476.44 µg/L	476.44 ppb	22:36:24
1	Be 313.107†	1761219.9	1757474.5	478.66 µg/L	478.66 ppb	22:36:24
1	Cd 226.502†	75730.6	75642.0	472.19 µg/L	472.19 ppb	22:36:24
1	Co 228.616†	38400.5	38485.9	475.11 µg/L	475.11 ppb	22:36:24
1	Cr 267.716†	60661.3	60317.0	472.27 µg/L	472.27 ppb	22:36:24
1	Cu 324.752†	125755.4	122439.8	477.30 µg/L	477.30 ppb	22:36:24
1	Mn 257.610†	387911.3	386614.6	478.15 µg/L	478.15 ppb	22:36:24
1	Mo 202.031†	16408.6	16383.8	481.94 µg/L	481.94 ppb	22:36:44
1	Ni 231.604†	41320.9	41284.6	475.36 µg/L	475.36 ppb	22:36:24
1	P 214.914†	11214.8	11202.1	2387.7 µg/L	2387.7 ppb	22:36:44
1	Pb 220.353†	8739.6	8629.4	483.24 µg/L	483.24 ppb	22:36:44
1	S 181.975 Axial†	1375.5	1266.7	944.65 µg/L	944.65 ppb	22:36:44
1	Sb 206.836†	4120.0	4027.9	480.04 µg/L	480.04 ppb	22:36:44
1	Se 196.026†	1343.5	1324.5	481 µg/L	481 ppb	22:36:44
1	SiO2†	54771.8	52846.8	5144.7 µg/L	5144.7 ppb	22:36:24
1	Si 251.611†	165253.5	163965.6	2407.7 µg/L	2407.7 ppb	22:36:24
1	Sn 189.927†	7717.2	7697.3	481.45 µg/L	481.45 ppb	22:36:44
1	Ti 334.940†	514309.0	511951.9	477.69 µg/L	477.69 ppb	22:36:24
1	Tl 190.801†	3827.4	3933.6	490.49 µg/L	490.49 ppb	22:36:44
1	U 409.014†	7235.3	7485.4	466.50 µg/L	466.50 ppb	22:36:24
1	V 292.402†	97370.2	96700.5	478.09 µg/L	478.09 ppb	22:36:24
1	Zn 213.857†	85150.2	84353.3	470.11 µg/L	470.11 ppb	22:36:24
2	Sc RADIAL	145116.2	145116.2	99.4 %		22:36:01
2	Al 396.153Radial†	26297.2	26507.8	4892.7 µg/L	4892.7 ppb	22:36:01
2	Ca 317.933Radial†	86940.1	86866.9	4838.8 µg/L	4838.8 ppb	22:36:01
2	Fe 238.204 Radial†	77803.3	78091.3	4813.1 µg/L	4813.1 ppb	22:36:01
2	K 766.490 Radial†	14545.6	13082.4	4785.7 µg/L	4785.7 ppb	22:36:01
2	Mg 279.077 IEC†	13274.5	13158.2	4909.9 µg/L	4909.9 ppb	22:36:01
2	Na 589.592 Radial†	70981.1	70088.2	9570.6 µg/L	9570.6 ppb	22:36:01
2	Sr 421.552†	232627.8	234067.2	486.57 µg/L	486.57 ppb	22:35:59
2	Sc 361.383	1750269.1	1750269.1	101.87 %		22:36:47
2	Y 371.029	1035573.7	1035573.7	100.87 %		22:36:47
2	Ag 328.068†	134676.3	128118.7	480.37 µg/L	480.37 ppb	22:36:47
2	As 188.979†	1582.5	1573.9	482.89 µg/L	482.89 ppb	22:37:07
2	B 249.677†	35971.3	31806.7	467.44 µg/L	467.44 ppb	22:36:47
2	Ba 233.527†	120638.2	118564.9	478.17 µg/L	478.17 ppb	22:36:47
2	Be 313.107†	1795938.6	1764115.6	480.47 µg/L	480.47 ppb	22:36:47
2	Cd 226.502†	77211.3	75915.5	473.90 µg/L	473.90 ppb	22:36:47
2	Co 228.616†	39183.6	38656.4	477.21 µg/L	477.21 ppb	22:36:47
2	Cr 267.716†	61805.5	60495.1	473.67 µg/L	473.67 ppb	22:36:47
2	Cu 324.752†	127636.0	122326.5	476.86 µg/L	476.86 ppb	22:36:47
2	Mn 257.610†	395566.1	388085.1	479.97 µg/L	479.97 ppb	22:36:47
2	Mo 202.031†	16264.4	15986.6	470.26 µg/L	470.26 ppb	22:37:07
2	Ni 231.604†	42110.5	41415.9	476.87 µg/L	476.87 ppb	22:36:47
2	P 214.914†	11123.1	10937.4	2331.1 µg/L	2331.1 ppb	22:37:07
2	Pb 220.353†	8695.2	8449.6	473.18 µg/L	473.18 ppb	22:37:07



2	S 181.975 Axial†	1380.2	1249.8	932.06 µg/L	932.06 ppb	22:37:07
2	Sb 206.836†	4108.8	3952.7	470.89 µg/L	470.89 ppb	22:37:07
2	Se 196.026†	1336.5	1296.8	471 µg/L	471 ppb	22:37:07
2	SiO2†	55876.6	53078.0	5167.8 µg/L	5167.8 ppb	22:36:47
2	Si 251.611†	168292.8	164374.4	2414.0 µg/L	2414.0 ppb	22:36:47
2	Sn 189.927†	7640.8	7502.0	469.28 µg/L	469.28 ppb	22:37:07
2	Ti 334.940†	522795.1	512268.9	477.98 µg/L	477.98 ppb	22:36:47
2	Tl 190.801†	3793.4	3840.6	479.07 µg/L	479.07 ppb	22:37:07
2	U 409.014†	7388.2	7522.7	468.79 µg/L	468.79 ppb	22:36:47
2	V 292.402†	99257.8	97036.4	479.62 µg/L	479.62 ppb	22:36:47
2	Zn 213.857†	87026.0	84867.9	472.99 µg/L	472.99 ppb	22:36:47
3	Sc RADIAL	145049.2	145049.2	99.4 %		22:36:05
3	Al 396.153Radial†	26335.5	26558.6	4901.9 µg/L	4901.9 ppb	22:36:05
3	Ca 317.933Radial†	86672.0	86637.6	4826.1 µg/L	4826.1 ppb	22:36:05
3	Fe 238.204 Radial†	77423.0	77745.0	4791.7 µg/L	4791.7 ppb	22:36:05
3	K 766.490 Radial†	14708.1	13252.7	4848.1 µg/L	4848.1 ppb	22:36:05
3	Mg 279.077 IEC†	13164.0	13053.2	4870.9 µg/L	4870.9 ppb	22:36:05
3	Na 589.592 Radial†	70826.5	69965.7	9553.9 µg/L	9553.9 ppb	22:36:05
3	Sr 421.552†	229385.5	230913.4	480.02 µg/L	480.02 ppb	22:36:03
3	Sc 361.383	1736886.0	1736886.0	101.09 %		22:37:10
3	Y 371.029	1026663.5	1026663.5	99.998 %		22:37:10
3	Ag 328.068†	133353.0	127828.3	479.31 µg/L	479.31 ppb	22:37:10
3	As 188.979†	1594.0	1597.2	489.96 µg/L	489.96 ppb	22:37:30
3	B 249.677†	35849.9	31958.7	469.68 µg/L	469.68 ppb	22:37:10
3	Ba 233.527†	119879.0	118726.4	478.82 µg/L	478.82 ppb	22:37:10
3	Be 313.107†	1785527.0	1767400.4	481.37 µg/L	481.37 ppb	22:37:10
3	Cd 226.502†	76637.4	75931.9	474.00 µg/L	474.00 ppb	22:37:10
3	Co 228.616†	38956.3	38727.9	478.10 µg/L	478.10 ppb	22:37:10
3	Cr 267.716†	61487.6	60648.2	474.86 µg/L	474.86 ppb	22:37:10
3	Cu 324.752†	126940.5	122603.9	477.95 µg/L	477.95 ppb	22:37:10
3	Mn 257.610†	392870.7	388410.8	480.37 µg/L	480.37 ppb	22:37:10
3	Mo 202.031†	16306.3	16151.1	475.10 µg/L	475.10 ppb	22:37:30
3	Ni 231.604†	41574.5	41204.2	474.44 µg/L	474.44 ppb	22:37:10
3	P 214.914†	11178.5	11076.3	2360.8 µg/L	2360.8 ppb	22:37:30
3	Pb 220.353†	8729.7	8549.5	478.76 µg/L	478.76 ppb	22:37:30
3	S 181.975 Axial†	1377.2	1257.3	937.66 µg/L	937.66 ppb	22:37:30
3	Sb 206.836†	4126.4	4001.2	476.72 µg/L	476.72 ppb	22:37:30
3	Se 196.026†	1332.7	1303.1	473 µg/L	473 ppb	22:37:30
3	SiO2†	55324.3	52954.3	5155.5 µg/L	5155.5 ppb	22:37:10
3	Si 251.611†	167461.4	164825.0	2420.5 µg/L	2420.5 ppb	22:37:10
3	Sn 189.927†	7692.4	7610.8	476.07 µg/L	476.07 ppb	22:37:30
3	Ti 334.940†	518784.6	512256.1	477.97 µg/L	477.97 ppb	22:37:10
3	Tl 190.801†	3813.8	3889.5	485.08 µg/L	485.08 ppb	22:37:30
3	U 409.014†	7519.5	7708.6	479.68 µg/L	479.68 ppb	22:37:10
3	V 292.402†	98557.8	97094.7	479.97 µg/L	479.97 ppb	22:37:10
3	Zn 213.857†	86550.8	85056.1	474.07 µg/L	474.07 ppb	22:37:10

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1736692.7	101.08 %	0.796			0.79%
Sc RADIAL	145644.6	99.8 %	0.67			0.67%
Y 371.029	1027349.5	100.06 %	0.770			0.77%
Ag 328.068†	127916.2	479.62 µg/L	0.654	479.62 ppb	0.654	0.14%
QC value within limits for Ag 328.068 Recovery = 95.92%						
Al 396.153Radial†	26506.5	4892.2 µg/L	9.94	4892.2 ppb	9.94	0.20%
QC value within limits for Al 396.153Radial Recovery = 97.84%						
As 188.979†	1597.1	489.91 µg/L	7.000	489.91 ppb	7.000	1.43%
QC value within limits for As 188.979 Recovery = 97.98%						
B 249.677†	31815.6	467.57 µg/L	2.043	467.57 ppb	2.043	0.44%
QC value within limits for B 249.677 Recovery = 93.51%						
Ba 233.527†	118475.7	477.81 µg/L	1.229	477.81 ppb	1.229	0.26%
QC value within limits for Ba 233.527 Recovery = 95.56%						
Be 313.107†	1762996.8	480.17 µg/L	1.379	480.17 ppb	1.379	0.29%
QC value within limits for Be 313.107 Recovery = 96.03%						
Ca 317.933Radial†	86697.4	4829.4 µg/L	8.30	4829.4 ppb	8.30	0.17%
QC value within limits for Ca 317.933Radial Recovery = 96.59%						
Cd 226.502†	75829.8	473.36 µg/L	1.017	473.36 ppb	1.017	0.21%
QC value within limits for Cd 226.502 Recovery = 94.67%						
Co 228.616†	38623.4	476.81 µg/L	1.535	476.81 ppb	1.535	0.32%

Cr	267.716†	60486.8	473.60 µg/L	1.293	473.60 ppb	1.293	0.27%
Cu	324.752†	122456.7	477.37 µg/L	0.545	477.37 ppb	0.545	0.11%
Fe	238.204 Radial†	77933.5	4803.3 µg/L	10.80	4803.3 ppb	10.80	0.22%
K	766.490 Radial†	13109.8	4795.8 µg/L	48.06	4795.8 ppb	48.06	1.00%
Mg	279.077 IEC†	13117.5	4894.9 µg/L	20.99	4894.9 ppb	20.99	0.43%
Mn	257.610†	387703.5	479.50 µg/L	1.185	479.50 ppb	1.185	0.25%
Mo	202.031†	16173.9	475.77 µg/L	5.865	475.77 ppb	5.865	1.23%
Na	589.592 Radial†	70008.7	9559.8 µg/L	9.43	9559.8 ppb	9.43	0.10%
Ni	231.604†	41301.6	475.56 µg/L	1.231	475.56 ppb	1.231	0.26%
P	214.914†	11071.9	2359.9 µg/L	28.31	2359.9 ppb	28.31	1.20%
Pb	220.353†	8542.8	478.39 µg/L	5.044	478.39 ppb	5.044	1.05%
S	181.975 Axial†	1257.9	938.13 µg/L	6.311	938.13 ppb	6.311	0.67%
Sb	206.836†	3994.0	475.89 µg/L	4.631	475.89 ppb	4.631	0.97%
Se	196.026†	1308.1	475 µg/L	5.3	475 ppb	5.3	1.11%
SiO2†		52959.7	5156.0 µg/L	11.56	5156.0 ppb	11.56	0.22%
Si	251.611†	164388.3	2414.1 µg/L	6.40	2414.1 ppb	6.40	0.27%
Sn	189.927†	7603.3	475.60 µg/L	6.099	475.60 ppb	6.099	1.28%
Sr	421.552†	232067.2	482.42 µg/L	3.615	482.42 ppb	3.615	0.75%
Ti	334.940†	512159.0	477.88 µg/L	0.166	477.88 ppb	0.166	0.03%
Tl	190.801†	3887.9	484.88 µg/L	5.710	484.88 ppb	5.710	1.18%
U	409.014†	7572.3	471.66 µg/L	7.041	471.66 ppb	7.041	1.49%
V	292.402†	96943.8	479.22 µg/L	0.996	479.22 ppb	0.996	0.21%
Zn	213.857†	84759.1	472.39 µg/L	2.045	472.39 ppb	2.045	0.43%

QC value within limits for Co 228.616 Recovery = 95.36%

QC value within limits for Cr 267.716 Recovery = 94.72%

QC value within limits for Cu 324.752 Recovery = 95.47%

QC value within limits for Fe 238.204 Radial Recovery = 96.07%

QC value within limits for K 766.490 Radial Recovery = 95.92%

QC value within limits for Mg 279.077 IEC Recovery = 97.90%

QC value within limits for Mn 257.610 Recovery = 95.90%

QC value within limits for Mo 202.031 Recovery = 95.15%

QC value within limits for Na 589.592 Radial Recovery = 95.60%

QC value within limits for Ni 231.604 Recovery = 95.11%

QC value within limits for P 214.914 Recovery = 94.39%

QC value within limits for Pb 220.353 Recovery = 95.68%

QC value within limits for S 181.975 Axial Recovery = 93.81%

QC value within limits for Sb 206.836 Recovery = 95.18%

QC value within limits for Se 196.026 Recovery = 95.00%

QC value within limits for SiO2 Recovery = 96.42%

QC value within limits for Si 251.611 Recovery = 96.56%

QC value within limits for Sn 189.927 Recovery = 95.12%

QC value within limits for Sr 421.552 Recovery = 96.48%

QC value within limits for Ti 334.940 Recovery = 95.58%

QC value within limits for Tl 190.801 Recovery = 96.98%

QC value within limits for U 409.014 Recovery = 94.33%

QC value within limits for V 292.402 Recovery = 95.84%

QC value within limits for Zn 213.857 Recovery = 94.48%

All analyte(s) passed QC.

Sequence No.: 88  
 Sample ID: CCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 6  
 Date Collected: 3/31/2010 22:37:38  
 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	146107.1	146107.1	100 %		22:38:09
1	Al 396.153Radial†	-28.6	34.6	6.4326 µg/L	6.4326 ppb	22:38:29
1	Ca 317.933Radial†	565.6	4.4	0.2431 µg/L	0.2431 ppb	22:38:29
1	Fe 238.204 Radial†	221.6	73.2	4.5130 µg/L	4.5130 ppb	22:38:29
1	K 766.490 Radial†	1670.7	123.9	45.355 µg/L	45.355 ppb	22:38:09
1	Mg 279.077 IEC†	188.3	-2.7	-1.0050 µg/L	-1.0050 ppb	22:38:29
1	Na 589.592 Radial†	1308.8	16.4	2.2067 µg/L	2.2067 ppb	22:38:09
1	Sr 421.552†	-138.0	-2.6	-0.0053 µg/L	-0.0053 ppb	22:38:09
1	Sc 361.383	1751605.7	1751605.7	101.94 %		22:39:16
1	Y 371.029	1046872.7	1046872.7	101.97 %		22:39:16
1	Ag 328.068†	3943.9	-222.7	-0.8222 µg/L	-0.8222 ppb	22:39:19
1	As 188.979†	-21.0	-0.2	-0.0602 µg/L	-0.0602 ppb	22:39:39
1	B 249.677†	3436.3	-135.1	-1.9931 µg/L	-1.9931 ppb	22:39:19
1	Ba 233.527†	-130.5	7.8	0.0313 µg/L	0.0313 ppb	22:39:39
1	Be 313.107†	-714.8	363.6	0.1002 µg/L	0.1002 ppb	22:39:19
1	Cd 226.502†	-97.0	23.1	0.1438 µg/L	0.1438 ppb	22:39:39
1	Co 228.616†	-170.5	23.0	0.2839 µg/L	0.2839 ppb	22:39:39
1	Cr 267.716†	208.7	26.1	0.2018 µg/L	0.2018 ppb	22:39:39
1	Cu 324.752†	2943.0	-85.3	-0.3274 µg/L	-0.3274 ppb	22:39:19
1	Mn 257.610†	329.7	86.2	0.1066 µg/L	0.1066 ppb	22:39:39
1	Mo 202.031†	-31.9	-11.2	-0.3304 µg/L	-0.3304 ppb	22:39:39
1	Ni 231.604†	-81.9	-3.9	-0.0443 µg/L	-0.0443 ppb	22:39:39
1	P 214.914†	-23.2	-4.8	-1.0060 µg/L	-1.0060 ppb	22:39:39
1	Pb 220.353†	102.8	14.4	0.8016 µg/L	0.8016 ppb	22:39:39
1	S 181.975 Axial†	97.2	-9.7	-7.2332 µg/L	-7.2332 ppb	22:39:39
1	Sb 206.836†	61.0	-21.0	-2.4992 µg/L	-2.4992 ppb	22:39:39
1	Se 196.026†	8.3	-7.1	-2.58 µg/L	-2.58 ppb	22:39:39
1	SiO2†	1795.0	-14.6	-1.4272 µg/L	-1.4272 ppb	22:39:39
1	Si 251.611†	1014.2	158.3	2.3344 µg/L	2.3344 ppb	22:39:19
1	Sn 189.927†	9.8	10.8	0.6712 µg/L	0.6712 ppb	22:39:39
1	Ti 334.940†	912.7	-57.2	-0.0550 µg/L	-0.0550 ppb	22:39:19
1	Tl 190.801†	-104.8	13.9	1.7060 µg/L	1.7060 ppb	22:39:39
1	U 409.014†	-207.3	66.5	3.8783 µg/L	3.8783 ppb	22:39:19
1	V 292.402†	371.1	-39.7	-0.1942 µg/L	-0.1942 ppb	22:39:19
1	Zn 213.857†	603.0	27.1	0.1525 µg/L	0.1525 ppb	22:39:39
2	Sc RADIAL	143516.2	143516.2	98.3 %		22:38:31
2	Al 396.153Radial†	-59.7	2.6	0.4739 µg/L	0.4739 ppb	22:38:51
2	Ca 317.933Radial†	574.3	23.4	1.3043 µg/L	1.3043 ppb	22:38:51
2	Fe 238.204 Radial†	211.6	67.1	4.1330 µg/L	4.1330 ppb	22:38:51
2	K 766.490 Radial†	1530.2	11.2	4.0876 µg/L	4.0876 ppb	22:38:31
2	Mg 279.077 IEC†	186.7	-0.9	-0.3295 µg/L	-0.3295 ppb	22:38:51
2	Na 589.592 Radial†	1309.3	40.6	5.5370 µg/L	5.5370 ppb	22:38:31
2	Sr 421.552†	-195.1	-63.1	-0.1312 µg/L	-0.1312 ppb	22:38:31
2	Sc 361.383	1725150.1	1725150.1	100.40 %		22:39:41
2	Y 371.029	1031944.0	1031944.0	100.51 %		22:39:41
2	Ag 328.068†	3865.7	-241.3	-0.8900 µg/L	-0.8900 ppb	22:39:43
2	As 188.979†	-15.4	5.0	1.5151 µg/L	1.5151 ppb	22:40:03
2	B 249.677†	3665.2	144.6	2.1317 µg/L	2.1317 ppb	22:39:43
2	Ba 233.527†	-135.5	0.9	0.0032 µg/L	0.0032 ppb	22:40:03
2	Be 313.107†	-881.3	187.0	0.0526 µg/L	0.0526 ppb	22:39:43
2	Cd 226.502†	-123.0	-4.3	-0.0274 µg/L	-0.0274 ppb	22:40:03
2	Co 228.616†	-162.8	28.2	0.3479 µg/L	0.3479 ppb	22:40:03
2	Cr 267.716†	195.8	16.5	0.1246 µg/L	0.1246 ppb	22:40:03
2	Cu 324.752†	2834.1	-149.5	-0.5757 µg/L	-0.5757 ppb	22:39:43
2	Mn 257.610†	312.2	73.7	0.0911 µg/L	0.0911 ppb	22:40:03
2	Mo 202.031†	-20.8	-0.7	-0.0196 µg/L	-0.0196 ppb	22:40:03
2	Ni 231.604†	-63.9	12.8	0.1478 µg/L	0.1478 ppb	22:40:03
2	P 214.914†	-29.3	-11.2	-2.4036 µg/L	-2.4036 ppb	22:40:03
2	Pb 220.353†	74.7	-12.0	-0.6719 µg/L	-0.6719 ppb	22:40:03

2	S 181.975 Axial†	114.1	8.6	6.4080 µg/L	6.4080 ppb	22:40:03
2	Sb 206.836†	83.7	2.5	0.2984 µg/L	0.2984 ppb	22:40:03
2	Se 196.026†	7.4	-7.9	-2.83 µg/L	-2.83 ppb	22:40:03
2	SiO2†	1757.4	-25.0	-2.4389 µg/L	-2.4389 ppb	22:40:03
2	Si 251.611†	1016.3	175.6	2.5912 µg/L	2.5912 ppb	22:39:43
2	Sn 189.927†	-5.9	-4.8	-0.2983 µg/L	-0.2983 ppb	22:40:03
2	Ti 334.940†	1008.8	52.2	0.0465 µg/L	0.0465 ppb	22:39:43
2	Tl 190.801†	-108.8	8.3	1.0191 µg/L	1.0191 ppb	22:40:03
2	U 409.014†	-175.4	95.2	5.5468 µg/L	5.5468 ppb	22:39:43
2	V 292.402†	347.2	-58.0	-0.2792 µg/L	-0.2792 ppb	22:39:43
2	Zn 213.857†	581.3	14.6	0.0808 µg/L	0.0808 ppb	22:40:03
3	Sc RADIAL	142981.4	142981.4	98.0 %		22:38:53
3	Al 396.153Radial†	-63.0	-1.1	-0.2113 µg/L	-0.2113 ppb	22:39:13
3	Ca 317.933Radial†	581.1	32.5	1.8108 µg/L	1.8108 ppb	22:39:13
3	Fe 238.204 Radial†	194.5	50.4	3.1050 µg/L	3.1050 ppb	22:39:13
3	K 766.490 Radial†	1679.9	169.7	62.139 µg/L	62.139 ppb	22:38:53
3	Mg 279.077 IEC†	195.7	9.0	3.3615 µg/L	3.3615 ppb	22:39:13
3	Na 589.592 Radial†	1209.6	-56.3	-7.7449 µg/L	-7.7449 ppb	22:38:53
3	Sr 421.552†	-420.0	-293.4	-0.6100 µg/L	-0.6100 ppb	22:38:53
3	Sc 361.383	1753013.9	1753013.9	102.03 %		22:40:05
3	Y 371.029	1047401.1	1047401.1	102.02 %		22:40:05
3	Ag 328.068†	4060.3	-111.6	-0.4113 µg/L	-0.4113 ppb	22:40:07
3	As 188.979†	-11.1	9.5	2.8753 µg/L	2.8753 ppb	22:40:27
3	B 249.677†	3619.9	42.1	0.6207 µg/L	0.6207 ppb	22:40:07
3	Ba 233.527†	-139.2	-0.6	-0.0023 µg/L	-0.0023 ppb	22:40:27
3	Be 313.107†	-869.8	212.1	0.0585 µg/L	0.0585 ppb	22:40:07
3	Cd 226.502†	-85.5	34.4	0.2145 µg/L	0.2145 ppb	22:40:27
3	Co 228.616†	-181.0	12.9	0.1588 µg/L	0.1588 ppb	22:40:27
3	Cr 267.716†	175.3	-6.8	-0.0550 µg/L	-0.0550 ppb	22:40:27
3	Cu 324.752†	3044.4	11.7	0.0483 µg/L	0.0483 ppb	22:40:07
3	Mn 257.610†	307.5	64.2	0.0793 µg/L	0.0793 ppb	22:40:27
3	Mo 202.031†	-12.0	8.3	0.2441 µg/L	0.2441 ppb	22:40:27
3	Ni 231.604†	-69.0	8.9	0.1028 µg/L	0.1028 ppb	22:40:27
3	P 214.914†	-27.3	-8.8	-1.8805 µg/L	-1.8805 ppb	22:40:27
3	Pb 220.353†	81.8	-6.2	-0.3453 µg/L	-0.3453 ppb	22:40:27
3	S 181.975 Axial†	99.7	-7.4	-5.4573 µg/L	-5.4573 ppb	22:40:27
3	Sb 206.836†	92.0	9.3	1.1113 µg/L	1.1113 ppb	22:40:27
3	Se 196.026†	22.0	6.3	2.27 µg/L	2.27 ppb	22:40:27
3	SiO2†	1796.0	-15.0	-1.4822 µg/L	-1.4822 ppb	22:40:27
3	Si 251.611†	1008.2	151.7	2.2299 µg/L	2.2299 ppb	22:40:07
3	Sn 189.927†	5.8	6.8	0.4238 µg/L	0.4238 ppb	22:40:27
3	Ti 334.940†	774.2	-193.7	-0.1822 µg/L	-0.1822 ppb	22:40:07
3	Tl 190.801†	-131.2	-12.0	-1.4719 µg/L	-1.4719 ppb	22:40:27
3	U 409.014†	-231.1	43.4	2.5310 µg/L	2.5310 ppb	22:40:07
3	V 292.402†	394.8	-16.8	-0.0781 µg/L	-0.0781 ppb	22:40:07
3	Zn 213.857†	584.2	8.2	0.0446 µg/L	0.0446 ppb	22:40:27

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Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1743256.5	101.46 %	0.914			0.90%
Sc RADIAL	144201.5	98.8 %	1.15			1.16%
Y 371.029	1042072.6	101.50 %	0.855			0.84%
Ag 328.068†	-191.9	-0.7079 µg/L	0.25904	-0.7079 ppb	0.25904	36.59%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	12.0	2.2317 µg/L	3.65416	2.2317 ppb	3.65416	163.74%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	4.8	1.4434 µg/L	1.46904	1.4434 ppb	1.46904	101.78%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	17.2	0.2531 µg/L	2.08681	0.2531 ppb	2.08681	824.51%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	2.7	0.0107 µg/L	0.01797	0.0107 ppb	0.01797	167.33%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	254.2	0.0704 µg/L	0.02593	0.0704 ppb	0.02593	36.81%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	20.1	1.1194 µg/L	0.80006	1.1194 ppb	0.80006	71.47%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	17.7	0.1103 µg/L	0.12437	0.1103 ppb	0.12437	112.78%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	21.4	0.2635 µg/L	0.09616	0.2635 ppb	0.09616	36.49%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	11.9	0.0905 µg/L	0.13175	0.0905 ppb	0.13175 145.64%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	-74.4	-0.2849 µg/L	0.31418	-0.2849 ppb	0.31418 110.27%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	63.6	3.9170 µg/L	0.72840	3.9170 ppb	0.72840 18.60%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	101.6	37.194 µg/L	29.8738	37.194 ppb	29.8738 80.32%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	1.8	0.6757 µg/L	2.35038	0.6757 ppb	2.35038 347.86%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	74.7	0.0923 µg/L	0.01373	0.0923 ppb	0.01373 14.87%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	-1.2	-0.0353 µg/L	0.28757	-0.0353 ppb	0.28757 814.16%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	0.2	-0.0004 µg/L	6.91054	-0.0004 ppb	6.91054 >999.9%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	6.0	0.0687 µg/L	0.10050	0.0687 ppb	0.10050 146.19%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	-8.3	-1.7634 µg/L	0.70616	-1.7634 ppb	0.70616 40.05%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	-1.2	-0.0719 µg/L	0.77383	-0.0719 ppb	0.77383 >999.9%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	-2.8	-2.0942 µg/L	7.41644	-2.0942 ppb	7.41644 354.14%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	-3.0	-0.3632 µg/L	1.89399	-0.3632 ppb	1.89399 521.51%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	-2.9	-1.05 µg/L	2.877	-1.05 ppb	2.877 275.00%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	-18.2	-1.7828 µg/L	0.56893	-1.7828 ppb	0.56893 31.91%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	161.9	2.3852 µg/L	0.18594	2.3852 ppb	0.18594 7.80%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	4.3	0.2656 µg/L	0.50378	0.2656 ppb	0.50378 189.70%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	-119.7	-0.2488 µg/L	0.31901	-0.2488 ppb	0.31901 128.20%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	-66.2	-0.0636 µg/L	0.11461	-0.0636 ppb	0.11461 180.26%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	3.4	0.4177 µg/L	1.67214	0.4177 ppb	1.67214 400.28%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	68.3	3.9854 µg/L	1.51076	3.9854 ppb	1.51076 37.91%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	-38.2	-0.1839 µg/L	0.10096	-0.1839 ppb	0.10096 54.91%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	16.6	0.0927 µg/L	0.05489	0.0927 ppb	0.05489 59.24%
	QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 96  
 Sample ID: CCV  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 1  
 Date Collected: 3/31/2010 22:56:09  
 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	145631.0	145631.0	99.8 %		22:56:43
1	Al 396.153Radial†	26317.9	26435.1	4879.0 µg/L	4879.0 ppb	22:56:43
1	Ca 317.933Radial†	87097.4	86715.5	4830.4 µg/L	4830.4 ppb	22:56:43
1	Fe 238.204 Radial†	78015.7	78027.6	4809.1 µg/L	4809.1 ppb	22:56:43
1	K 766.490 Radial†	14649.7	13135.0	4805.0 µg/L	4805.0 ppb	22:56:43
1	Mg 279.077 IEC†	13278.4	13115.0	4893.9 µg/L	4893.9 ppb	22:56:43
1	Na 589.592 Radial†	71207.1	70062.4	9567.1 µg/L	9567.1 ppb	22:56:43
1	Sr 421.552†	231874.1	232485.1	483.29 µg/L	483.29 ppb	22:56:41
1	Sc 361.383	1757611.7	1757611.7	102.29 %		22:56:56
1	Y 371.029	1039190.8	1039190.8	101.22 %		22:56:56
1	Ag 328.068†	134897.1	127782.2	479.15 µg/L	479.15 ppb	22:56:56
1	As 188.979†	1621.9	1605.9	492.61 µg/L	492.61 ppb	22:57:16
1	B 249.677†	36392.3	32070.7	471.32 µg/L	471.32 ppb	22:56:56
1	Ba 233.527†	121741.3	119148.6	480.52 µg/L	480.52 ppb	22:56:56
1	Be 313.107†	1813624.8	1774040.0	483.17 µg/L	483.17 ppb	22:56:56
1	Cd 226.502†	78396.2	76757.2	479.15 µg/L	479.15 ppb	22:56:56
1	Co 228.616†	39678.3	38979.3	481.20 µg/L	481.20 ppb	22:56:56
1	Cr 267.716†	62522.7	60942.8	477.17 µg/L	477.17 ppb	22:56:56
1	Cu 324.752†	128539.8	122686.5	478.27 µg/L	478.27 ppb	22:56:56
1	Mn 257.610†	399485.0	390293.9	482.70 µg/L	482.70 ppb	22:56:56
1	Mo 202.031†	16513.7	16163.7	475.47 µg/L	475.47 ppb	22:57:16
1	Ni 231.604†	42651.4	41771.9	480.97 µg/L	480.97 ppb	22:56:56
1	P 214.914†	11360.0	11123.4	2370.9 µg/L	2370.9 ppb	22:57:16
1	Pb 220.353†	8842.6	8558.1	479.24 µg/L	479.24 ppb	22:57:16
1	S 181.975 Axial†	1375.6	1239.7	924.58 µg/L	924.58 ppb	22:57:16
1	Sb 206.836†	4166.7	3992.4	475.65 µg/L	475.65 ppb	22:57:16
1	Se 196.026†	1353.0	1307.4	475 µg/L	475 ppb	22:57:16
1	SiO2†	56776.4	53728.4	5231.1 µg/L	5231.1 ppb	22:56:56
1	Si 251.611†	171826.2	167138.4	2454.6 µg/L	2454.6 ppb	22:56:56
1	Sn 189.927†	7798.3	7624.6	476.93 µg/L	476.93 ppb	22:57:16
1	Ti 334.940†	526436.4	513684.7	479.31 µg/L	479.31 ppb	22:56:56
1	Tl 190.801†	3828.8	3859.7	481.43 µg/L	481.43 ppb	22:57:16
1	U 409.014†	7470.8	7573.2	471.86 µg/L	471.86 ppb	22:56:56
1	V 292.402†	100068.8	97422.2	481.57 µg/L	481.57 ppb	22:56:56
1	Zn 213.857†	87978.3	85442.0	476.19 µg/L	476.19 ppb	22:56:56
2	Sc RADIAL	144482.4	144482.4	99.0 %		22:56:47
2	Al 396.153Radial†	26344.0	26671.1	4922.7 µg/L	4922.7 ppb	22:56:47
2	Ca 317.933Radial†	86633.5	86940.8	4842.9 µg/L	4842.9 ppb	22:56:47
2	Fe 238.204 Radial†	77683.1	78313.2	4826.7 µg/L	4826.7 ppb	22:56:47
2	K 766.490 Radial†	14601.3	13202.8	4829.8 µg/L	4829.8 ppb	22:56:47
2	Mg 279.077 IEC†	13248.2	13190.2	4922.0 µg/L	4922.0 ppb	22:56:47
2	Na 589.592 Radial†	70771.3	70189.4	9584.4 µg/L	9584.4 ppb	22:56:47
2	Sr 421.552†	233206.6	235678.1	489.92 µg/L	489.92 ppb	22:56:45
2	Sc 361.383	1751539.4	1751539.4	101.94 %		22:57:19
2	Y 371.029	1035412.0	1035412.0	100.85 %		22:57:19
2	Ag 328.068†	134751.3	128096.4	480.32 µg/L	480.32 ppb	22:57:19
2	As 188.979†	1631.1	1620.5	497.03 µg/L	497.03 ppb	22:57:39
2	B 249.677†	36471.6	32271.9	474.29 µg/L	474.29 ppb	22:57:19
2	Ba 233.527†	121221.0	119050.7	480.13 µg/L	480.13 ppb	22:57:19
2	Be 313.107†	1805248.5	1771969.6	482.61 µg/L	482.61 ppb	22:57:19
2	Cd 226.502†	78107.8	76740.0	479.04 µg/L	479.04 ppb	22:57:19
2	Co 228.616†	39424.5	38864.8	479.79 µg/L	479.79 ppb	22:57:19
2	Cr 267.716†	62345.8	60981.1	477.48 µg/L	477.48 ppb	22:57:19
2	Cu 324.752†	127964.1	122557.5	477.76 µg/L	477.76 ppb	22:57:19
2	Mn 257.610†	398107.9	390296.9	482.71 µg/L	482.71 ppb	22:57:19
2	Mo 202.031†	16505.0	16211.0	476.86 µg/L	476.86 ppb	22:57:39
2	Ni 231.604†	42337.4	41608.5	479.09 µg/L	479.09 ppb	22:57:19
2	P 214.914†	11365.0	11166.7	2380.1 µg/L	2380.1 ppb	22:57:39
2	Pb 220.353†	8862.8	8607.8	482.03 µg/L	482.03 ppb	22:57:39

2	S 181.975 Axial†	1404.8	1273.1	949.37 µg/L	949.37 ppb	22:57:39
2	Sb 206.836†	4167.5	4007.4	477.45 µg/L	477.45 ppb	22:57:39
2	Se 196.026†	1357.3	1316.2	478 µg/L	478 ppb	22:57:39
2	SiO2†	56527.9	53677.1	5226.0 µg/L	5226.0 ppb	22:57:19
2	Si 251.611†	170943.4	166854.8	2450.4 µg/L	2450.4 ppb	22:57:19
2	Sn 189.927†	7812.4	7664.9	479.44 µg/L	479.44 ppb	22:57:39
2	Ti 334.940†	524724.5	513789.4	479.40 µg/L	479.40 ppb	22:57:19
2	Tl 190.801†	3882.8	3925.7	489.55 µg/L	489.55 ppb	22:57:39
2	U 409.014†	7388.4	7517.7	468.65 µg/L	468.65 ppb	22:57:19
2	V 292.402†	99869.4	97565.6	482.28 µg/L	482.28 ppb	22:57:19
2	Zn 213.857†	87691.1	85458.4	476.30 µg/L	476.30 ppb	22:57:19
3	Sc RADIAL	144138.2	144138.2	98.8 %		22:56:51
3	Al 396.153Radial†	26172.1	26560.6	4902.1 µg/L	4902.1 ppb	22:56:51
3	Ca 317.933Radial†	86609.0	87124.9	4853.2 µg/L	4853.2 ppb	22:56:51
3	Fe 238.204 Radial†	77490.8	78305.8	4826.3 µg/L	4826.3 ppb	22:56:51
3	K 766.490 Radial†	14542.9	13178.9	4821.0 µg/L	4821.0 ppb	22:56:51
3	Mg 279.077 IEC†	13135.4	13108.0	4891.4 µg/L	4891.4 ppb	22:56:51
3	Na 589.592 Radial†	70800.9	70390.1	9611.9 µg/L	9611.9 ppb	22:56:51
3	Sr 421.552†	232137.5	235158.2	488.84 µg/L	488.84 ppb	22:56:49
3	Sc 361.383	1748212.6	1748212.6	101.75 %		22:57:42
3	Y 371.029	1033770.3	1033770.3	100.69 %		22:57:42
3	Ag 328.068†	134805.9	128401.6	481.45 µg/L	481.45 ppb	22:57:42
3	As 188.979†	1610.5	1603.2	491.81 µg/L	491.81 ppb	22:58:02
3	B 249.677†	36492.0	32359.9	475.58 µg/L	475.58 ppb	22:57:42
3	Ba 233.527†	121511.9	119562.9	482.19 µg/L	482.19 ppb	22:57:42
3	Be 313.107†	1811861.4	1781839.1	485.29 µg/L	485.29 ppb	22:57:42
3	Cd 226.502†	78364.1	77137.8	481.53 µg/L	481.53 ppb	22:57:42
3	Co 228.616†	39460.6	38973.8	481.13 µg/L	481.13 ppb	22:57:42
3	Cr 267.716†	62297.9	61050.5	478.02 µg/L	478.02 ppb	22:57:42
3	Cu 324.752†	128147.5	122976.6	479.39 µg/L	479.39 ppb	22:57:42
3	Mn 257.610†	398765.2	391686.1	484.43 µg/L	484.43 ppb	22:57:42
3	Mo 202.031†	16552.7	16288.7	479.14 µg/L	479.14 ppb	22:58:02
3	Ni 231.604†	42492.4	41839.9	481.76 µg/L	481.76 ppb	22:57:42
3	P 214.914†	11389.8	11212.3	2389.9 µg/L	2389.9 ppb	22:58:02
3	Pb 220.353†	8877.9	8639.2	483.79 µg/L	483.79 ppb	22:58:02
3	S 181.975 Axial†	1392.1	1263.1	942.01 µg/L	942.01 ppb	22:58:02
3	Sb 206.836†	4168.0	4015.6	478.46 µg/L	478.46 ppb	22:58:02
3	Se 196.026†	1374.8	1335.9	485 µg/L	485 ppb	22:58:02
3	SiO2†	56586.5	53840.3	5241.9 µg/L	5241.9 ppb	22:57:42
3	Si 251.611†	171481.5	167702.7	2462.9 µg/L	2462.9 ppb	22:57:42
3	Sn 189.927†	7818.8	7685.8	480.75 µg/L	480.75 ppb	22:58:02
3	Ti 334.940†	524855.7	514897.9	480.44 µg/L	480.44 ppb	22:57:42
3	Tl 190.801†	3874.8	3925.0	489.48 µg/L	489.48 ppb	22:58:02
3	U 409.014†	7274.8	7419.8	462.99 µg/L	462.99 ppb	22:57:42
3	V 292.402†	99852.2	97735.2	483.13 µg/L	483.13 ppb	22:57:42
3	Zn 213.857†	87879.4	85807.2	478.24 µg/L	478.24 ppb	22:57:42

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1752454.6	101.99 %	0.277			0.27%
Sc RADIAL	144750.5	99.2 %	0.54			0.54%
Y 371.029	1036124.4	100.92 %	0.271			0.27%
Ag 328.068†	128093.4	480.30 µg/L	1.150	480.30 ppb	1.150	0.24%
QC value within limits for Ag 328.068 Recovery = 96.06%						
Al 396.153Radial†	26555.6	4901.2 µg/L	21.86	4901.2 ppb	21.86	0.45%
QC value within limits for Al 396.153Radial Recovery = 98.02%						
As 188.979†	1609.8	493.81 µg/L	2.810	493.81 ppb	2.810	0.57%
QC value within limits for As 188.979 Recovery = 98.76%						
B 249.677†	32234.2	473.73 µg/L	2.187	473.73 ppb	2.187	0.46%
QC value within limits for B 249.677 Recovery = 94.75%						
Ba 233.527†	119254.1	480.95 µg/L	1.096	480.95 ppb	1.096	0.23%
QC value within limits for Ba 233.527 Recovery = 96.19%						
Be 313.107†	1775949.6	483.69 µg/L	1.416	483.69 ppb	1.416	0.29%
QC value within limits for Be 313.107 Recovery = 96.74%						
Ca 317.933Radial†	86927.1	4842.2 µg/L	11.42	4842.2 ppb	11.42	0.24%
QC value within limits for Ca 317.933Radial Recovery = 96.84%						
Cd 226.502†	76878.3	479.91 µg/L	1.404	479.91 ppb	1.404	0.29%
QC value within limits for Cd 226.502 Recovery = 95.98%						
Co 228.616†	38939.3	480.71 µg/L	0.798	480.71 ppb	0.798	0.17%

Cr	267.716†	60991.5	477.56 µg/L	0.432	477.56 ppb	0.432	0.09%
Cu	324.752†	122740.2	478.47 µg/L	0.832	478.47 ppb	0.832	0.17%
Fe	238.204 Radial†	78215.5	4820.7 µg/L	10.03	4820.7 ppb	10.03	0.21%
K	766.490 Radial†	13172.2	4818.6 µg/L	12.58	4818.6 ppb	12.58	0.26%
Mg	279.077 IEC†	13137.7	4902.4 µg/L	16.98	4902.4 ppb	16.98	0.35%
Mn	257.610†	390759.0	483.28 µg/L	0.994	483.28 ppb	0.994	0.21%
Mo	202.031†	16221.2	477.16 µg/L	1.856	477.16 ppb	1.856	0.39%
Na	589.592 Radial†	70214.0	9587.8 µg/L	22.57	9587.8 ppb	22.57	0.24%
Ni	231.604†	41740.1	480.61 µg/L	1.369	480.61 ppb	1.369	0.28%
P	214.914†	11167.5	2380.3 µg/L	9.50	2380.3 ppb	9.50	0.40%
Pb	220.353†	8601.7	481.69 µg/L	2.292	481.69 ppb	2.292	0.48%
S	181.975 Axial†	1258.6	938.65 µg/L	12.730	938.65 ppb	12.730	1.36%
Sb	206.836†	4005.1	477.19 µg/L	1.420	477.19 ppb	1.420	0.30%
Se	196.026†	1319.8	479 µg/L	5.3	479 ppb	5.3	1.10%
SiO2†		53748.6	5233.0 µg/L	8.10	5233.0 ppb	8.10	0.15%
Si	251.611†	167232.0	2456.0 µg/L	6.34	2456.0 ppb	6.34	0.26%
Sn	189.927†	7658.4	479.04 µg/L	1.940	479.04 ppb	1.940	0.41%
Sr	421.552†	234440.5	487.35 µg/L	3.562	487.35 ppb	3.562	0.73%
Ti	334.940†	514124.0	479.72 µg/L	0.631	479.72 ppb	0.631	0.13%
Tl	190.801†	3903.4	486.82 µg/L	4.666	486.82 ppb	4.666	0.96%
U	409.014†	7503.6	467.83 µg/L	4.493	467.83 ppb	4.493	0.96%
V	292.402†	97574.3	482.33 µg/L	0.781	482.33 ppb	0.781	0.16%
Zn	213.857†	85569.2	476.91 µg/L	1.152	476.91 ppb	1.152	0.24%

QC value within limits for Co 228.616 Recovery = 96.14%  
 QC value within limits for Cr 267.716 Recovery = 95.51%  
 QC value within limits for Cu 324.752 Recovery = 95.69%  
 QC value within limits for Fe 238.204 Radial Recovery = 96.41%  
 QC value within limits for K 766.490 Radial Recovery = 96.37%  
 QC value within limits for Mg 279.077 IEC Recovery = 98.05%  
 QC value within limits for Mn 257.610 Recovery = 96.66%  
 QC value within limits for Mo 202.031 Recovery = 95.43%  
 QC value within limits for Na 589.592 Radial Recovery = 95.88%  
 QC value within limits for Ni 231.604 Recovery = 96.12%  
 QC value within limits for P 214.914 Recovery = 95.21%  
 QC value within limits for Pb 220.353 Recovery = 96.34%  
 QC value within limits for S 181.975 Axial Recovery = 93.87%  
 QC value within limits for Sb 206.836 Recovery = 95.44%  
 QC value within limits for Se 196.026 Recovery = 95.85%  
 QC value within limits for SiO2 Recovery = 97.86%  
 QC value within limits for Si 251.611 Recovery = 98.24%  
 QC value within limits for Sn 189.927 Recovery = 95.81%  
 QC value within limits for Sr 421.552 Recovery = 97.47%  
 QC value within limits for Ti 334.940 Recovery = 95.94%  
 QC value within limits for Tl 190.801 Recovery = 97.36%  
 QC value within limits for U 409.014 Recovery = 93.57%  
 QC value within limits for V 292.402 Recovery = 96.47%  
 QC value within limits for Zn 213.857 Recovery = 95.38%

All analyte(s) passed QC.



Sequence No.: 97

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/31/2010 22:58:10

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	141781.4	141781.4	97.2 %		22:58:41
1	Al 396.153Radial†	-65.9	-4.6	-0.8469 µg/L	-0.8469 ppb	22:59:01
1	Ca 317.933Radial†	606.5	63.7	3.5473 µg/L	3.5473 ppb	22:59:01
1	Fe 238.204 Radial†	221.5	79.9	4.9227 µg/L	4.9227 ppb	22:59:01
1	K 766.490 Radial†	1686.2	190.7	69.835 µg/L	69.835 ppb	22:58:41
1	Mg 279.077 IEC†	181.6	-3.8	-1.4362 µg/L	-1.4362 ppb	22:59:01
1	Na 589.592 Radial†	1287.3	34.2	4.6057 µg/L	4.6057 ppb	22:58:41
1	Sr 421.552†	-190.2	-60.5	-0.1257 µg/L	-0.1257 ppb	22:58:41
1	Sc 361.383	1743048.5	1743048.5	101.45 %		23:00:02
1	Y 371.029	1041073.0	1041073.0	101.40 %		23:00:02
1	Ag 328.068†	4154.9	4.3	0.0197 µg/L	0.0197 ppb	23:00:05
1	As 188.979†	-19.4	1.2	0.3644 µg/L	0.3644 ppb	23:00:25
1	B 249.677†	3572.5	15.7	0.2315 µg/L	0.2315 ppb	23:00:05
1	Ba 233.527†	-115.3	22.2	0.0893 µg/L	0.0893 ppb	23:00:25
1	Be 313.107†	-922.1	155.7	0.0428 µg/L	0.0428 ppb	23:00:05
1	Cd 226.502†	-111.2	8.6	0.0533 µg/L	0.0533 ppb	23:00:25
1	Co 228.616†	-179.8	13.1	0.1612 µg/L	0.1612 ppb	23:00:25
1	Cr 267.716†	180.6	-0.5	-0.0052 µg/L	-0.0052 ppb	23:00:25
1	Cu 324.752†	2865.9	-147.1	-0.5698 µg/L	-0.5698 ppb	23:00:05
1	Mn 257.610†	329.0	87.1	0.1078 µg/L	0.1078 ppb	23:00:25
1	Mo 202.031†	-23.8	-3.4	-0.1000 µg/L	-0.1000 ppb	23:00:25
1	Ni 231.604†	-90.2	-12.4	-0.1430 µg/L	-0.1430 ppb	23:00:25
1	P 214.914†	-18.9	-0.7	-0.1360 µg/L	-0.1360 ppb	23:00:25
1	Pb 220.353†	97.7	10.0	0.5542 µg/L	0.5542 ppb	23:00:25
1	Sb 181.975 Axial†	106.4	-0.2	-0.1288 µg/L	-0.1288 ppb	23:00:25
1	Sr 206.836†	101.1	18.9	2.2415 µg/L	2.2415 ppb	23:00:25
1	Se 196.026†	15.2	-0.3	-0.115 µg/L	-0.115 ppb	23:00:25
1	SiO2†	1920.2	117.5	11.486 µg/L	11.486 ppb	23:00:25
1	Si 251.611†	1352.7	496.8	7.3252 µg/L	7.3252 ppb	23:00:05
1	Sn 189.927†	0.5	1.6	0.0974 µg/L	0.0974 ppb	23:00:25
1	Ti 334.940†	839.4	-125.1	-0.1173 µg/L	-0.1173 ppb	23:00:05
1	Tl 190.801†	-111.8	6.4	0.7917 µg/L	0.7917 ppb	23:00:25
1	U 409.014†	-248.6	24.8	1.4614 µg/L	1.4614 ppb	23:00:05
1	V 292.402†	448.0	37.9	0.1842 µg/L	0.1842 ppb	23:00:05
1	Zn 213.857†	592.5	19.7	0.1113 µg/L	0.1113 ppb	23:00:25
2	Sc RADIAL	145003.3	145003.3	99.4 %		22:59:03
2	Al 396.153Radial†	-37.6	25.3	4.6756 µg/L	4.6756 ppb	22:59:23
2	Ca 317.933Radial†	575.8	18.9	1.0553 µg/L	1.0553 ppb	22:59:23
2	Fe 238.204 Radial†	212.8	66.1	4.0710 µg/L	4.0710 ppb	22:59:23
2	K 766.490 Radial†	1744.9	211.3	77.353 µg/L	77.353 ppb	22:59:03
2	Mg 279.077 IEC†	193.4	3.9	1.4593 µg/L	1.4593 ppb	22:59:23
2	Na 589.592 Radial†	1264.0	-18.7	-2.6277 µg/L	-2.6277 ppb	22:59:03
2	Sr 421.552†	-251.3	-117.6	-0.2446 µg/L	-0.2446 ppb	22:59:03
2	Sc 361.383	1760622.4	1760622.4	102.47 %		23:00:27
2	Y 371.029	1051993.8	1051993.8	102.46 %		23:00:27
2	Ag 328.068†	3995.9	-191.7	-0.7159 µg/L	-0.7159 ppb	23:00:29
2	As 188.979†	-7.1	13.4	4.0498 µg/L	4.0498 ppb	23:00:49
2	B 249.677†	3525.8	-65.0	-0.9588 µg/L	-0.9588 ppb	23:00:29
2	Ba 233.527†	-156.5	-16.9	-0.0684 µg/L	-0.0684 ppb	23:00:49
2	Be 313.107†	-952.5	135.1	0.0377 µg/L	0.0377 ppb	23:00:29
2	Cd 226.502†	-136.2	-14.7	-0.0924 µg/L	-0.0924 ppb	23:00:49
2	Co 228.616†	-206.8	-11.5	-0.1422 µg/L	-0.1422 ppb	23:00:49
2	Cr 267.716†	203.7	20.2	0.1559 µg/L	0.1559 ppb	23:00:49
2	Cu 324.752†	2945.2	-98.0	-0.3777 µg/L	-0.3777 ppb	23:00:29
2	Mn 257.610†	295.4	51.0	0.0631 µg/L	0.0631 ppb	23:00:49
2	Mo 202.031†	-5.0	15.2	0.4464 µg/L	0.4464 ppb	23:00:49
2	Ni 231.604†	-100.3	-21.4	-0.2461 µg/L	-0.2461 ppb	23:00:49
2	P 214.914†	-24.8	-6.2	-1.3412 µg/L	-1.3412 ppb	23:00:49
2	Pb 220.353†	104.7	15.8	0.8832 µg/L	0.8832 ppb	23:00:49

2	S 181.975 Axial†	95.9	-11.5	-8.5333 µg/L	-8.5333 ppb	23:00:49
2	Sb 206.836†	88.7	5.7	0.6835 µg/L	0.6835 ppb	23:00:49
2	Se 196.026†	21.7	5.9	2.15 µg/L	2.15 ppb	23:00:49
2	SiO2†	1898.9	77.8	7.5925 µg/L	7.5925 ppb	23:00:49
2	Si 251.611†	1381.8	512.0	7.5445 µg/L	7.5445 ppb	23:00:29
2	Sn 189.927†	-7.0	-5.7	-0.3531 µg/L	-0.3531 ppb	23:00:49
2	Ti 334.940†	1192.4	211.2	0.1959 µg/L	0.1959 ppb	23:00:29
2	Tl 190.801†	-124.7	-5.0	-0.6143 µg/L	-0.6143 ppb	23:00:49
2	U 409.014†	-223.7	51.6	2.9674 µg/L	2.9674 ppb	23:00:29
2	V 292.402†	244.3	-165.3	-0.7998 µg/L	-0.7998 ppb	23:00:29
2	Zn 213.857†	583.4	4.9	0.0292 µg/L	0.0292 ppb	23:00:49
3	Sc RADIAL	144406.4	144406.4	99.0 %		22:59:25
3	Al 396.153Radial†	-65.2	-2.7	-0.5137 µg/L	-0.5137 ppb	22:59:45
3	Ca 317.933Radial†	603.1	48.9	2.7231 µg/L	2.7231 ppb	22:59:45
3	Fe 238.204 Radial†	209.2	63.3	3.9000 µg/L	3.9000 ppb	22:59:45
3	K 766.490 Radial†	1469.9	-59.4	-21.748 µg/L	-21.748 ppb	22:59:25
3	Mg 279.077 IEC†	181.9	-6.9	-2.5712 µg/L	-2.5712 ppb	22:59:45
3	Na 589.592 Radial†	1182.1	-96.2	-13.128 µg/L	-13.128 ppb	22:59:25
3	Sr 421.552†	-255.8	-123.2	-0.2561 µg/L	-0.2561 ppb	22:59:25
3	Sc 361.383	1746264.7	1746264.7	101.63 %		23:00:51
3	Y 371.029	1044189.6	1044189.6	101.70 %		23:00:51
3	Ag 328.068†	4224.2	64.9	0.2383 µg/L	0.2383 ppb	23:00:53
3	As 188.979†	-13.6	7.0	2.1128 µg/L	2.1128 ppb	23:01:13
3	B 249.677†	3523.5	-39.0	-0.5757 µg/L	-0.5757 ppb	23:00:53
3	Ba 233.527†	-133.8	4.2	0.0170 µg/L	0.0170 ppb	23:01:13
3	Be 313.107†	-788.4	289.0	0.0783 µg/L	0.0783 ppb	23:00:53
3	Cd 226.502†	-90.0	29.6	0.1844 µg/L	0.1844 ppb	23:01:13
3	Co 228.616†	-170.7	22.4	0.2760 µg/L	0.2760 ppb	23:01:13
3	Cr 267.716†	211.8	29.8	0.2347 µg/L	0.2347 ppb	23:01:13
3	Cu 324.752†	2885.9	-132.7	-0.5161 µg/L	-0.5161 ppb	23:00:53
3	Mn 257.610†	381.2	137.9	0.1707 µg/L	0.1707 ppb	23:01:13
3	Mo 202.031†	-12.3	8.0	0.2345 µg/L	0.2345 ppb	23:01:13
3	Ni 231.604†	-88.3	-10.3	-0.1190 µg/L	-0.1190 ppb	23:01:13
3	P 214.914†	-16.7	1.5	0.3230 µg/L	0.3230 ppb	23:01:13
3	Pb 220.353†	101.8	13.8	0.7699 µg/L	0.7699 ppb	23:01:13
3	S 181.975 Axial†	95.5	-11.1	-8.2190 µg/L	-8.2190 ppb	23:01:13
3	Sb 206.836†	89.0	6.7	0.8032 µg/L	0.8032 ppb	23:01:13
3	Se 196.026†	12.4	-3.0	-1.09 µg/L	-1.09 ppb	23:01:13
3	SiO2†	1870.7	65.3	6.3610 µg/L	6.3610 ppb	23:01:13
3	Si 251.611†	1192.8	337.1	4.9610 µg/L	4.9610 ppb	23:00:53
3	Sn 189.927†	11.3	12.3	0.7657 µg/L	0.7657 ppb	23:01:13
3	Ti 334.940†	1019.6	50.7	0.0482 µg/L	0.0482 ppb	23:00:53
3	Tl 190.801†	-120.0	-1.4	-0.1679 µg/L	-0.1679 ppb	23:01:13
3	U 409.014†	-299.5	-24.8	-1.4500 µg/L	-1.4500 ppb	23:00:53
3	V 292.402†	406.4	-3.9	-0.0172 µg/L	-0.0172 ppb	23:00:53
3	Zn 213.857†	589.9	16.1	0.0909 µg/L	0.0909 ppb	23:01:13

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1749978.5	101.85 %	0.545			0.53%
Sc RADIAL	143730.4	98.5 %	1.17			1.19%
Y 371.029	1045752.1	101.86 %	0.548			0.54%
Ag 328.068†	-40.8	-0.1526 µg/L	0.49988	-0.1526 ppb	0.49988	327.49%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	6.0	1.1050 µg/L	3.09673	1.1050 ppb	3.09673	280.24%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	7.2	2.1757 µg/L	1.84349	2.1757 ppb	1.84349	84.73%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-29.4	-0.4343 µg/L	0.60762	-0.4343 ppb	0.60762	139.91%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.2	0.0126 µg/L	0.07891	0.0126 ppb	0.07891	623.91%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	193.3	0.0529 µg/L	0.02208	0.0529 ppb	0.02208	41.72%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	43.8	2.4419 µg/L	1.26955	2.4419 ppb	1.26955	51.99%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	7.8	0.0484 µg/L	0.13846	0.0484 ppb	0.13846	286.00%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	8.0	0.0983 µg/L	0.21607	0.0983 ppb	0.21607	219.74%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	16.5 0.1285 µg/L	0.12227	0.1285 ppb
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-125.9 -0.4879 µg/L	0.09911	-0.4879 ppb
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	69.7 4.2979 µg/L	0.54779	4.2979 ppb
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	114.2 41.813 µg/L	55.1735	41.813 ppb
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-2.3 -0.8494 µg/L	2.07835	-0.8494 ppb
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	92.0 0.1138 µg/L	0.05404	0.1138 ppb
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	6.6 0.1936 µg/L	0.27547	0.1936 ppb
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-26.9 -3.7166 µg/L	8.91683	-3.7166 ppb
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-14.7 -0.1693 µg/L	0.06752	-0.1693 ppb
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	-1.8 -0.3847 µg/L	0.85955	-0.3847 ppb
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	13.2 0.7358 µg/L	0.16715	0.7358 ppb
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-7.6 -5.6270 µg/L	4.76418	-5.6270 ppb
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	10.4 1.2427 µg/L	0.86705	1.2427 ppb
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	0.9 0.315 µg/L	1.6662	0.315 ppb
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	86.8 8.4797 µg/L	2.67504	8.4797 ppb
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	448.6 6.6103 µg/L	1.43246	6.6103 ppb
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	2.7 0.1700 µg/L	0.56292	0.1700 ppb
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-100.4 -0.2088 µg/L	0.07220	-0.2088 ppb
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	45.6 0.0423 µg/L	0.15668	0.0423 ppb
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	0.0 0.0032 µg/L	0.71841	0.0032 ppb
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	17.2 0.9930 µg/L	2.24566	0.9930 ppb
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-43.8 -0.2109 µg/L	0.51982	-0.2109 ppb
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	13.5 0.0771 µg/L	0.04274	0.0771 ppb
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 107

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/31/2010 23:18:25

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	144621.4	144621.4	99.1 %		23:18:59
1	Al 396.153Radial†	26323.5	26624.9	4914.2 µg/L	4914.2 ppb	23:18:59
1	Ca 317.933Radial†	86890.8	87116.3	4852.7 µg/L	4852.7 ppb	23:18:59
1	Fe 238.204 Radial†	77681.3	78236.0	4822.0 µg/L	4822.0 ppb	23:18:59
1	K 766.490 Radial†	14559.5	13146.4	4809.1 µg/L	4809.1 ppb	23:18:59
1	Mg 279.077 IEC†	13260.2	13189.4	4921.6 µg/L	4921.6 ppb	23:18:59
1	Na 589.592 Radial†	71065.1	70417.2	9615.6 µg/L	9615.6 ppb	23:18:59
1	Sr 421.552†	226802.4	228989.5	476.02 µg/L	476.02 ppb	23:18:57
1	Sc 361.383	1740302.6	1740302.6	101.29 %		23:19:12
1	Y 371.029	1028952.4	1028952.4	100.22 %		23:19:12
1	Ag 328.068†	133614.5	127827.5	479.30 µg/L	479.30 ppb	23:19:12
1	As 188.979†	1600.2	1600.2	490.89 µg/L	490.89 ppb	23:19:32
1	B 249.677†	35788.1	31828.1	467.74 µg/L	467.74 ppb	23:19:12
1	Ba 233.527†	120219.9	118830.1	479.24 µg/L	479.24 ppb	23:19:12
1	Be 313.107†	1792744.0	1771058.2	482.36 µg/L	482.36 ppb	23:19:12
1	Cd 226.502†	77213.0	76351.3	476.62 µg/L	476.62 ppb	23:19:12
1	Co 228.616†	39286.0	38977.8	481.18 µg/L	481.18 ppb	23:19:12
1	Cr 267.716†	61813.7	60850.7	476.45 µg/L	476.45 ppb	23:19:12
1	Cu 324.752†	127063.4	122478.8	477.46 µg/L	477.46 ppb	23:19:12
1	Mn 257.610†	394634.0	389388.7	481.58 µg/L	481.58 ppb	23:19:12
1	Mo 202.031†	16315.2	16128.2	474.43 µg/L	474.43 ppb	23:19:32
1	Ni 231.604†	42026.4	41569.6	478.64 µg/L	478.64 ppb	23:19:12
1	P 214.914†	11190.5	11066.4	2358.7 µg/L	2358.7 ppb	23:19:32
1	Pb 220.353†	8740.7	8543.3	478.42 µg/L	478.42 ppb	23:19:32
1	S 181.975 Axial†	1377.8	1255.2	936.10 µg/L	936.10 ppb	23:19:32
1	Sb 206.836†	4144.7	4011.3	477.89 µg/L	477.89 ppb	23:19:32
1	Se 196.026†	1340.6	1308.3	475 µg/L	475 ppb	23:19:32
1	SiO2†	55627.7	53146.4	5174.3 µg/L	5174.3 ppb	23:19:12
1	Si 251.611†	168264.2	165292.3	2427.4 µg/L	2427.4 ppb	23:19:12
1	Sn 189.927†	7681.2	7584.9	474.45 µg/L	474.45 ppb	23:19:32
1	Ti 334.940†	520666.2	513106.3	478.76 µg/L	478.76 ppb	23:19:12
1	Tl 190.801†	3808.4	3876.8	483.51 µg/L	483.51 ppb	23:19:32
1	U 409.014†	7415.2	7590.9	472.81 µg/L	472.81 ppb	23:19:12
1	V 292.402†	98786.7	97129.3	480.13 µg/L	480.13 ppb	23:19:12
1	Zn 213.857†	87000.0	85331.6	475.59 µg/L	475.59 ppb	23:19:12
2	Sc RADIAL	142472.1	142472.1	97.6 %		23:19:03
2	Al 396.153Radial†	25927.4	26619.8	4913.0 µg/L	4913.0 ppb	23:19:03
2	Ca 317.933Radial†	85608.6	87125.7	4853.2 µg/L	4853.2 ppb	23:19:03
2	Fe 238.204 Radial†	76614.2	78325.4	4827.5 µg/L	4827.5 ppb	23:19:03
2	K 766.490 Radial†	14271.1	13072.6	4782.1 µg/L	4782.1 ppb	23:19:03
2	Mg 279.077 IEC†	13162.7	13291.5	4959.8 µg/L	4959.8 ppb	23:19:03
2	Na 589.592 Radial†	70188.6	70601.3	9640.7 µg/L	9640.7 ppb	23:19:03
2	Sr 421.552†	229468.1	235172.4	488.87 µg/L	488.87 ppb	23:19:01
2	Sc 361.383	1723519.2	1723519.2	100.31 %		23:19:35
2	Y 371.029	1019447.3	1019447.3	99.295 %		23:19:35
2	Ag 328.068†	132544.4	128045.3	480.11 µg/L	480.11 ppb	23:19:35
2	As 188.979†	1616.7	1632.0	500.53 µg/L	500.53 ppb	23:19:55
2	B 249.677†	35773.7	32157.7	472.61 µg/L	472.61 ppb	23:19:35
2	Ba 233.527†	119609.8	119377.7	481.45 µg/L	481.45 ppb	23:19:35
2	Be 313.107†	1778804.5	1774397.6	483.27 µg/L	483.27 ppb	23:19:35
2	Cd 226.502†	76467.8	76350.8	476.61 µg/L	476.61 ppb	23:19:35
2	Co 228.616†	38765.7	38836.8	479.44 µg/L	479.44 ppb	23:19:35
2	Cr 267.716†	61178.2	60811.4	476.15 µg/L	476.15 ppb	23:19:35
2	Cu 324.752†	126162.4	122802.1	478.71 µg/L	478.71 ppb	23:19:35
2	Mn 257.610†	391126.3	389685.9	481.95 µg/L	481.95 ppb	23:19:35
2	Mo 202.031†	16388.5	16358.2	481.19 µg/L	481.19 ppb	23:19:55
2	Ni 231.604†	41688.5	41636.7	479.42 µg/L	479.42 ppb	23:19:35
2	P 214.914†	11227.5	11210.9	2389.5 µg/L	2389.5 ppb	23:19:55
2	Pb 220.353†	8752.6	8639.3	483.80 µg/L	483.80 ppb	23:19:55

2	S 181.975 Axial†	1387.2	1277.9	952.97 µg/L	952.97 ppb	23:19:55
2	Sb 206.836†	4153.3	4059.7	483.76 µg/L	483.76 ppb	23:19:55
2	Se 196.026†	1345.0	1325.6	481 µg/L	481 ppb	23:19:55
2	SiO2†	55194.2	53249.1	5184.0 µg/L	5184.0 ppb	23:19:35
2	Si 251.611†	166652.6	165303.4	2427.5 µg/L	2427.5 ppb	23:19:35
2	Sn 189.927†	7721.4	7698.8	481.56 µg/L	481.56 ppb	23:19:55
2	Ti 334.940†	516481.7	513940.5	479.54 µg/L	479.54 ppb	23:19:35
2	Tl 190.801†	3825.6	3930.5	490.14 µg/L	490.14 ppb	23:19:55
2	U 409.014†	7186.2	7434.0	463.72 µg/L	463.72 ppb	23:19:35
2	V 292.402†	98156.4	97450.7	481.75 µg/L	481.75 ppb	23:19:35
2	Zn 213.857†	86133.5	85304.1	475.43 µg/L	475.43 ppb	23:19:35
3	Sc RADIAL	143809.9	143809.9	98.5 %		23:19:07
3	Al 396.153Radial†	26240.2	26690.2	4926.1 µg/L	4926.1 ppb	23:19:07
3	Ca 317.933Radial†	86148.8	86858.1	4838.3 µg/L	4838.3 ppb	23:19:07
3	Fe 238.204 Radial†	77300.3	78291.6	4825.4 µg/L	4825.4 ppb	23:19:07
3	K 766.490 Radial†	14495.5	13164.4	4815.7 µg/L	4815.7 ppb	23:19:07
3	Mg 279.077 IEC†	13104.6	13107.1	4891.0 µg/L	4891.0 ppb	23:19:07
3	Na 589.592 Radial†	70560.3	70309.6	9600.9 µg/L	9600.9 ppb	23:19:07
3	Sr 421.552†	228660.9	232166.8	482.62 µg/L	482.62 ppb	23:19:05
3	Sc 361.383	1735011.3	1735011.3	100.98 %		23:19:58
3	Y 371.029	1026280.7	1026280.7	99.960 %		23:19:58
3	Ag 328.068†	133432.9	128050.0	480.14 µg/L	480.14 ppb	23:19:58
3	As 188.979†	1602.2	1607.1	492.96 µg/L	492.96 ppb	23:20:18
3	B 249.677†	35929.6	32076.0	471.40 µg/L	471.40 ppb	23:19:58
3	Ba 233.527†	120028.3	119002.3	479.93 µg/L	479.93 ppb	23:19:58
3	Be 313.107†	1790709.1	1774441.1	483.28 µg/L	483.28 ppb	23:19:58
3	Cd 226.502†	76990.5	76363.5	476.69 µg/L	476.69 ppb	23:19:58
3	Co 228.616†	38992.1	38805.0	479.05 µg/L	479.05 ppb	23:19:58
3	Cr 267.716†	61553.2	60778.9	475.89 µg/L	475.89 ppb	23:19:58
3	Cu 324.752†	126757.9	122558.7	477.77 µg/L	477.77 ppb	23:19:58
3	Mn 257.610†	393545.3	389498.8	481.72 µg/L	481.72 ppb	23:19:58
3	Mo 202.031†	16392.4	16253.8	478.12 µg/L	478.12 ppb	23:20:18
3	Ni 231.604†	41888.6	41559.7	478.53 µg/L	478.53 ppb	23:19:58
3	P 214.914†	11251.6	11160.7	2378.8 µg/L	2378.8 ppb	23:20:18
3	Pb 220.353†	8767.6	8596.3	481.39 µg/L	481.39 ppb	23:20:18
3	S 181.975 Axial†	1362.8	1244.5	928.19 µg/L	928.19 ppb	23:20:18
3	Sb 206.836†	4134.8	4013.9	478.27 µg/L	478.27 ppb	23:20:18
3	Se 196.026†	1346.5	1318.2	479 µg/L	479 ppb	23:20:18
3	SiO2†	55432.8	53120.9	5171.6 µg/L	5171.6 ppb	23:19:58
3	Si 251.611†	167686.3	165226.7	2426.4 µg/L	2426.4 ppb	23:19:58
3	Sn 189.927†	7743.2	7669.3	479.72 µg/L	479.72 ppb	23:20:18
3	Ti 334.940†	520000.5	514014.7	479.61 µg/L	479.61 ppb	23:19:58
3	Tl 190.801†	3827.1	3906.8	487.22 µg/L	487.22 ppb	23:20:18
3	U 409.014†	7368.8	7567.3	471.52 µg/L	471.52 ppb	23:19:58
3	V 292.402†	98829.1	97468.7	481.82 µg/L	481.82 ppb	23:19:58
3	Zn 213.857†	86772.4	85368.1	475.79 µg/L	475.79 ppb	23:19:58

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1732944.4	100.86 %	0.499			0.50%
Sc RADIAL	143634.5	98.4 %	0.74			0.76%
Y 371.029	1024893.5	99.825 %	0.4775			0.48%
Ag 328.068†	127974.3	479.85 µg/L	0.478	479.85 ppb	0.478	0.10%
QC value within limits for Ag 328.068 Recovery = 95.97%						
Al 396.153Radial†	26645.0	4917.8 µg/L	7.28	4917.8 ppb	7.28	0.15%
QC value within limits for Al 396.153Radial Recovery = 98.36%						
As 188.979†	1613.1	494.79 µg/L	5.073	494.79 ppb	5.073	1.03%
QC value within limits for As 188.979 Recovery = 98.96%						
B 249.677†	32020.6	470.58 µg/L	2.536	470.58 ppb	2.536	0.54%
QC value within limits for B 249.677 Recovery = 94.12%						
Ba 233.527†	119070.1	480.21 µg/L	1.130	480.21 ppb	1.130	0.24%
QC value within limits for Ba 233.527 Recovery = 96.04%						
Be 313.107†	1773298.9	482.97 µg/L	0.528	482.97 ppb	0.528	0.11%
QC value within limits for Be 313.107 Recovery = 96.59%						
Ca 317.933Radial†	87033.4	4848.1 µg/L	8.46	4848.1 ppb	8.46	0.17%
QC value within limits for Ca 317.933Radial Recovery = 96.96%						
Cd 226.502†	76355.2	476.64 µg/L	0.045	476.64 ppb	0.045	0.01%
QC value within limits for Cd 226.502 Recovery = 95.33%						
Co 228.616†	38873.2	479.89 µg/L	1.134	479.89 ppb	1.134	0.24%

QC value within limits for Co 228.616 Recovery = 95.98%							
Cr 267.716†	60813.7	476.16 µg/L	0.280	476.16 ppb	0.280	0.06%	
QC value within limits for Cr 267.716 Recovery = 95.23%							
Cu 324.752†	122613.2	477.98 µg/L	0.651	477.98 ppb	0.651	0.14%	
QC value within limits for Cu 324.752 Recovery = 95.60%							
Fe 238.204 Radial†	78284.3	4825.0 µg/L	2.78	4825.0 ppb	2.78	0.06%	
QC value within limits for Fe 238.204 Radial Recovery = 96.50%							
K 766.490 Radial†	13127.8	4802.3 µg/L	17.82	4802.3 ppb	17.82	0.37%	
QC value within limits for K 766.490 Radial Recovery = 96.05%							
Mg 279.077 IEC†	13196.0	4924.2 µg/L	34.46	4924.2 ppb	34.46	0.70%	
QC value within limits for Mg 279.077 IEC Recovery = 98.48%							
Mn 257.610†	389524.5	481.75 µg/L	0.185	481.75 ppb	0.185	0.04%	
QC value within limits for Mn 257.610 Recovery = 96.35%							
Mo 202.031†	16246.8	477.91 µg/L	3.385	477.91 ppb	3.385	0.71%	
QC value within limits for Mo 202.031 Recovery = 95.58%							
Na 589.592 Radial†	70442.7	9619.1 µg/L	20.17	9619.1 ppb	20.17	0.21%	
QC value within limits for Na 589.592 Radial Recovery = 96.19%							
Ni 231.604†	41588.7	478.86 µg/L	0.483	478.86 ppb	0.483	0.10%	
QC value within limits for Ni 231.604 Recovery = 95.77%							
P 214.914†	11146.0	2375.7 µg/L	15.67	2375.7 ppb	15.67	0.66%	
QC value within limits for P 214.914 Recovery = 95.03%							
Pb 220.353†	8593.0	481.20 µg/L	2.697	481.20 ppb	2.697	0.56%	
QC value within limits for Pb 220.353 Recovery = 96.24%							
S 181.975 Axial†	1259.2	939.09 µg/L	12.659	939.09 ppb	12.659	1.35%	
QC value within limits for S 181.975 Axial Recovery = 93.91%							
Sb 206.836†	4028.3	479.97 µg/L	3.284	479.97 ppb	3.284	0.68%	
QC value within limits for Sb 206.836 Recovery = 95.99%							
Se 196.026†	1317.4	478 µg/L	3.1	478 ppb	3.1	0.65%	
QC value within limits for Se 196.026 Recovery = 95.67%							
SiO2†	53172.1	5176.6 µg/L	6.53	5176.6 ppb	6.53	0.13%	
QC value within limits for SiO2 Recovery = 96.80%							
Si 251.611†	165274.1	2427.1 µg/L	0.62	2427.1 ppb	0.62	0.03%	
QC value within limits for Si 251.611 Recovery = 97.08%							
Sn 189.927†	7651.0	478.58 µg/L	3.688	478.58 ppb	3.688	0.77%	
QC value within limits for Sn 189.927 Recovery = 95.72%							
Sr 421.552†	232109.6	482.50 µg/L	6.428	482.50 ppb	6.428	1.33%	
QC value within limits for Sr 421.552 Recovery = 96.50%							
Ti 334.940†	513687.1	479.31 µg/L	0.472	479.31 ppb	0.472	0.10%	
QC value within limits for Ti 334.940 Recovery = 95.86%							
Tl 190.801†	3904.7	486.96 µg/L	3.327	486.96 ppb	3.327	0.68%	
QC value within limits for Tl 190.801 Recovery = 97.39%							
U 409.014†	7530.7	469.35 µg/L	4.918	469.35 ppb	4.918	1.05%	
QC value within limits for U 409.014 Recovery = 93.87%							
V 292.402†	97349.6	481.23 µg/L	0.958	481.23 ppb	0.958	0.20%	
QC value within limits for V 292.402 Recovery = 96.25%							
Zn 213.857†	85334.6	475.60 µg/L	0.184	475.60 ppb	0.184	0.04%	
QC value within limits for Zn 213.857 Recovery = 95.12%							
All analyte(s) passed QC.							

Sequence No.: 108

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/31/2010 23:20:27

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	144721.0	144721.0	99.2 %		23:20:58
1	Al 396.153Radial†	-83.6	-21.0	-3.8947 µg/L	-3.8947 ppb	23:21:18
1	Ca 317.933Radial†	580.4	24.7	1.3750 µg/L	1.3750 ppb	23:21:18
1	Fe 238.204 Radial†	196.1	49.7	3.0605 µg/L	3.0605 ppb	23:21:18
1	K 766.490 Radial†	1602.1	70.7	25.883 µg/L	25.883 ppb	23:20:58
1	Mg 279.077 IEC†	205.0	16.0	5.9406 µg/L	5.9406 ppb	23:21:18
1	Na 589.592 Radial†	1213.9	-66.8	-9.1423 µg/L	-9.1423 ppb	23:20:58
1	Sr 421.552†	-55.9	78.9	0.1640 µg/L	0.1640 ppb	23:20:58
1	Sc 361.383	1740172.6	1740172.6	101.28 %		23:22:05
1	Y 371.029	1040560.6	1040560.6	101.35 %		23:22:05
1	Ag 328.068†	3851.9	-288.0	-1.0737 µg/L	-1.0737 ppb	23:22:08
1	As 188.979†	-3.9	16.5	4.9867 µg/L	4.9867 ppb	23:22:28
1	B 249.677†	3520.7	-29.6	-0.4370 µg/L	-0.4370 ppb	23:22:08
1	Ba 233.527†	-128.4	9.1	0.0366 µg/L	0.0366 ppb	23:22:28
1	Be 313.107†	-942.4	134.2	0.0343 µg/L	0.0343 ppb	23:22:08
1	Cd 226.502†	-109.3	10.3	0.0637 µg/L	0.0637 ppb	23:22:28
1	Co 228.616†	-168.6	23.8	0.2936 µg/L	0.2936 ppb	23:22:28
1	Cr 267.716†	186.3	5.4	0.0484 µg/L	0.0484 ppb	23:22:28
1	Cu 324.752†	2967.4	-42.3	-0.1696 µg/L	-0.1696 ppb	23:22:08
1	Mn 257.610†	341.2	99.6	0.1230 µg/L	0.1230 ppb	23:22:28
1	Mo 202.031†	-26.0	-5.6	-0.1652 µg/L	-0.1652 ppb	23:22:28
1	Ni 231.604†	-86.6	-8.9	-0.1030 µg/L	-0.1030 ppb	23:22:28
1	P 214.914†	2.1	20.0	4.2896 µg/L	4.2896 ppb	23:22:28
1	Pb 220.353†	89.4	1.9	0.1123 µg/L	0.1123 ppb	23:22:28
1	S 181.975 Axial†	95.7	-10.5	-7.8226 µg/L	-7.8226 ppb	23:22:28
1	Sb 206.836†	91.9	9.9	1.1769 µg/L	1.1769 ppb	23:22:28
1	Se 196.026†	23.5	7.9	2.85 µg/L	2.85 ppb	23:22:28
1	SiO2†	1814.1	15.9	1.5390 µg/L	1.5390 ppb	23:22:28
1	Si 251.611†	917.6	69.4	1.0187 µg/L	1.0187 ppb	23:22:08
1	Sn 189.927†	16.5	17.4	1.0880 µg/L	1.0880 ppb	23:22:28
1	Ti 334.940†	1176.4	209.1	0.1979 µg/L	0.1979 ppb	23:22:08
1	Tl 190.801†	-110.5	7.6	0.9307 µg/L	0.9307 ppb	23:22:28
1	U 409.014†	-401.5	-126.5	-7.3869 µg/L	-7.3869 ppb	23:22:08
1	V 292.402†	444.8	35.4	0.1657 µg/L	0.1657 ppb	23:22:08
1	Zn 213.857†	587.2	15.4	0.0869 µg/L	0.0869 ppb	23:22:28
2	Sc RADIAL	144189.3	144189.3	98.8 %		23:21:20
2	Al 396.153Radial†	-42.6	20.1	3.7335 µg/L	3.7335 ppb	23:21:40
2	Ca 317.933Radial†	605.6	52.4	2.9175 µg/L	2.9175 ppb	23:21:40
2	Fe 238.204 Radial†	235.5	90.2	5.5587 µg/L	5.5587 ppb	23:21:40
2	K 766.490 Radial†	1804.3	281.3	102.99 µg/L	102.99 ppb	23:21:20
2	Mg 279.077 IEC†	185.5	-3.0	-1.1298 µg/L	-1.1298 ppb	23:21:40
2	Na 589.592 Radial†	1392.4	118.4	16.088 µg/L	16.088 ppb	23:21:20
2	Sr 421.552†	-172.0	-38.8	-0.0807 µg/L	-0.0807 ppb	23:21:20
2	Sc 361.383	1750632.4	1750632.4	101.89 %		23:22:30
2	Y 371.029	1045632.3	1045632.3	101.85 %		23:22:30
2	Ag 328.068†	3884.1	-279.2	-1.0517 µg/L	-1.0517 ppb	23:22:32
2	As 188.979†	-9.6	10.9	3.2935 µg/L	3.2935 ppb	23:22:52
2	B 249.677†	3509.8	-61.1	-0.9032 µg/L	-0.9032 ppb	23:22:32
2	Ba 233.527†	-114.7	23.2	0.0931 µg/L	0.0931 ppb	23:22:52
2	Be 313.107†	-767.6	311.3	0.0822 µg/L	0.0822 ppb	23:22:32
2	Cd 226.502†	-108.6	11.6	0.0718 µg/L	0.0718 ppb	23:22:52
2	Co 228.616†	-145.0	48.0	0.5919 µg/L	0.5919 ppb	23:22:52
2	Cr 267.716†	155.6	-25.9	-0.1960 µg/L	-0.1960 ppb	23:22:52
2	Cu 324.752†	2910.6	-115.5	-0.4545 µg/L	-0.4545 ppb	23:22:32
2	Mn 257.610†	337.8	94.3	0.1167 µg/L	0.1167 ppb	23:22:52
2	Mo 202.031†	-28.0	-7.4	-0.2186 µg/L	-0.2186 ppb	23:22:52
2	Ni 231.604†	-82.4	-4.3	-0.0499 µg/L	-0.0499 ppb	23:22:52
2	P 214.914†	-26.2	-7.8	-1.6582 µg/L	-1.6582 ppb	23:22:52
2	Pb 220.353†	84.8	-3.2	-0.1707 µg/L	-0.1707 ppb	23:22:52

2	S 181.975 Axial†	94.4	-12.4	-9.1963 µg/L	-9.1963 ppb	23:22:52
2	Sb 206.836†	90.2	7.7	0.9179 µg/L	0.9179 ppb	23:22:52
2	Se 196.026†	18.0	2.4	0.844 µg/L	0.844 ppb	23:22:52
2	SiO2†	1787.8	-20.7	-2.0247 µg/L	-2.0247 ppb	23:22:52
2	Si 251.611†	881.0	28.1	0.4136 µg/L	0.4136 ppb	23:22:32
2	Sn 189.927†	7.3	8.3	0.5186 µg/L	0.5186 ppb	23:22:52
2	Ti 334.940†	950.4	-19.7	-0.0148 µg/L	-0.0148 ppb	23:22:32
2	Tl 190.801†	-105.4	13.3	1.6208 µg/L	1.6208 ppb	23:22:52
2	U 409.014†	-420.2	-142.5	-8.3714 µg/L	-8.3714 ppb	23:22:32
2	V 292.402†	279.7	-129.3	-0.6400 µg/L	-0.6400 ppb	23:22:32
2	Zn 213.857†	564.2	-10.7	-0.0598 µg/L	-0.0598 ppb	23:22:52
3	Sc RADIAL	144369.9	144369.9	98.9 %		23:21:42
3	Al 396.153Radial†	-72.5	-10.1	-1.8730 µg/L	-1.8730 ppb	23:22:02
3	Ca 317.933Radial†	584.3	30.1	1.6744 µg/L	1.6744 ppb	23:22:02
3	Fe 238.204 Radial†	204.0	58.1	3.5807 µg/L	3.5807 ppb	23:22:02
3	K 766.490 Radial†	1674.9	148.2	54.270 µg/L	54.270 ppb	23:21:42
3	Mg 279.077 IEC†	184.9	-3.8	-1.4254 µg/L	-1.4254 ppb	23:22:02
3	Na 589.592 Radial†	1285.3	8.4	1.0985 µg/L	1.0985 ppb	23:21:42
3	Sr 421.552†	-188.2	-55.0	-0.1143 µg/L	-0.1143 ppb	23:21:42
3	Sc 361.383	1741492.2	1741492.2	101.35 %		23:22:54
3	Y 371.029	1040823.4	1040823.4	101.38 %		23:22:54
3	Ag 328.068†	4356.2	206.6	0.7527 µg/L	0.7527 ppb	23:22:56
3	As 188.979†	-10.3	10.2	3.0901 µg/L	3.0901 ppb	23:23:16
3	B 249.677†	3495.4	-57.2	-0.8448 µg/L	-0.8448 ppb	23:22:56
3	Ba 233.527†	-104.9	32.3	0.1301 µg/L	0.1301 ppb	23:23:16
3	Be 313.107†	-758.4	316.4	0.0840 µg/L	0.0840 ppb	23:22:56
3	Cd 226.502†	-93.1	26.3	0.1638 µg/L	0.1638 ppb	23:23:16
3	Co 228.616†	-177.9	14.8	0.1826 µg/L	0.1826 ppb	23:23:16
3	Cr 267.716†	215.5	34.0	0.2721 µg/L	0.2721 ppb	23:23:16
3	Cu 324.752†	2926.0	-85.3	-0.3369 µg/L	-0.3369 ppb	23:22:56
3	Mn 257.610†	318.8	77.2	0.0956 µg/L	0.0956 ppb	23:23:16
3	Mo 202.031†	-22.0	-1.7	-0.0489 µg/L	-0.0489 ppb	23:23:16
3	Ni 231.604†	-129.1	-50.8	-0.5854 µg/L	-0.5854 ppb	23:23:16
3	P 214.914†	-27.8	-9.5	-2.0268 µg/L	-2.0268 ppb	23:23:16
3	Pb 220.353†	99.2	11.4	0.6440 µg/L	0.6440 ppb	23:23:16
3	S 181.975 Axial†	104.2	-2.2	-1.6435 µg/L	-1.6435 ppb	23:23:16
3	Sb 206.836†	80.2	-1.7	-0.2024 µg/L	-0.2024 ppb	23:23:16
3	Se 196.026†	-2.8	-18.0	-6.52 µg/L	-6.52 ppb	23:23:16
3	SiO2†	1785.7	-13.5	-1.3191 µg/L	-1.3191 ppb	23:23:16
3	Si 251.611†	942.5	93.3	1.3760 µg/L	1.3760 ppb	23:22:56
3	Sn 189.927†	-0.1	1.0	0.0628 µg/L	0.0628 ppb	23:23:16
3	Ti 334.940†	1040.9	74.5	0.0726 µg/L	0.0726 ppb	23:22:56
3	Tl 190.801†	-122.9	-4.6	-0.5664 µg/L	-0.5664 ppb	23:23:16
3	U 409.014†	-398.4	-123.1	-7.2165 µg/L	-7.2165 ppb	23:22:56
3	V 292.402†	352.1	-56.4	-0.2799 µg/L	-0.2799 ppb	23:22:56
3	Zn 213.857†	592.9	20.6	0.1194 µg/L	0.1194 ppb	23:23:16

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1744099.1	101.51 %	0.332			0.33%
Sc RADIAL	144426.7	99.0 %	0.19			0.19%
Y 371.029	1042338.8	101.52 %	0.278			0.27%
Ag 328.068†	-120.2	-0.4576 µg/L	1.04821	-0.4576 ppb	1.04821	229.09%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-3.7	-0.6781 µg/L	3.95199	-0.6781 ppb	3.95199	582.82%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	12.5	3.7901 µg/L	1.04128	3.7901 ppb	1.04128	27.47%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-49.3	-0.7283 µg/L	0.25394	-0.7283 ppb	0.25394	34.87%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	21.5	0.0866 µg/L	0.04706	0.0866 ppb	0.04706	54.35%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	254.0	0.0668 µg/L	0.02820	0.0668 ppb	0.02820	42.19%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	35.7	1.9890 µg/L	0.81790	1.9890 ppb	0.81790	41.12%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	16.1	0.0998 µg/L	0.05561	0.0998 ppb	0.05561	55.74%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	28.9	0.3560 µg/L	0.21172	0.3560 ppb	0.21172	59.47%



QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	4.5	0.0415 µg/L	0.23416 0.0415 ppb 0.23416 564.27%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-81.0	-0.3203 µg/L	0.14318 -0.3203 ppb 0.14318 44.70%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	66.0	4.0666 µg/L	1.31807 4.0666 ppb 1.31807 32.41%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	166.7	61.047 µg/L	38.9970 61.047 ppb 38.9970 63.88%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	3.0	1.1285 µg/L	4.17006 1.1285 ppb 4.17006 369.53%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	90.4	0.1118 µg/L	0.01435 0.1118 ppb 0.01435 12.84%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-4.9	-0.1442 µg/L	0.08677 -0.1442 ppb 0.08677 60.15%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	20.0	2.6814 µg/L	12.68942 2.6814 ppb 12.68942 473.24%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-21.4	-0.2461 µg/L	0.29505 -0.2461 ppb 0.29505 119.90%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	0.9	0.2015 µg/L	3.54518 0.2015 ppb 3.54518 >999.9%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	3.4	0.1952 µg/L	0.41363 0.1952 ppb 0.41363 211.92%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-8.4	-6.2208 µg/L	4.02315 -6.2208 ppb 4.02315 64.67%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	5.3	0.6308 µg/L	0.73310 0.6308 ppb 0.73310 116.22%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	-2.6	-0.941 µg/L	4.9356 -0.941 ppb 4.9356 524.57%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	-6.1	-0.6016 µg/L	1.88709 -0.6016 ppb 1.88709 313.69%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	63.6	0.9361 µg/L	0.48651 0.9361 ppb 0.48651 51.97%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	8.9	0.5565 µg/L	0.51367 0.5565 ppb 0.51367 92.31%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-5.0	-0.0103 µg/L	0.15190 -0.0103 ppb 0.15190 >999.9%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	87.9	0.0852 µg/L	0.10689 0.0852 ppb 0.10689 125.39%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	5.4	0.6617 µg/L	1.11813 0.6617 ppb 1.11813 168.98%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-130.7	-7.6583 µg/L	0.62345 -7.6583 ppb 0.62345 8.14%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-50.1	-0.2514 µg/L	0.40359 -0.2514 ppb 0.40359 160.55%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	8.4	0.0488 µg/L	0.09550 0.0488 ppb 0.09550 195.59%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 119

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/31/2010 23:44:28

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	144132.6	144132.6	98.8 %		23:45:03
1	Al 396.153Radial†	26296.2	26687.3	4925.8 µg/L	4925.8 ppb	23:45:03
1	Ca 317.933Radial†	86285.0	86800.3	4835.1 µg/L	4835.1 ppb	23:45:03
1	Fe 238.204 Radial†	77336.8	78153.0	4816.9 µg/L	4816.9 ppb	23:45:03
1	K 766.490 Radial†	14372.8	13007.2	4758.2 µg/L	4758.2 ppb	23:45:03
1	Mg 279.077 IEC†	13164.6	13138.1	4902.5 µg/L	4902.5 ppb	23:45:03
1	Na 589.592 Radial†	70648.2	70238.4	9591.2 µg/L	9591.2 ppb	23:45:03
1	Sr 421.552†	230039.5	233043.2	484.45 µg/L	484.45 ppb	23:45:01
1	Sc 361.383	1743955.0	1743955.0	101.50 %		23:45:30
1	Y 371.029	1030705.1	1030705.1	100.39 %		23:45:30
1	Ag 328.068†	134389.6	128314.9	481.13 µg/L	481.13 ppb	23:45:30
1	As 188.979†	1617.5	1614.0	495.08 µg/L	495.08 ppb	23:45:50
1	B 249.677†	36323.2	32281.3	474.42 µg/L	474.42 ppb	23:45:30
1	Ba 233.527†	120941.4	119292.4	481.10 µg/L	481.10 ppb	23:45:30
1	Be 313.107†	1804931.8	1779359.2	484.62 µg/L	484.62 ppb	23:45:30
1	Cd 226.502†	77856.9	76826.1	479.58 µg/L	479.58 ppb	23:45:30
1	Co 228.616†	39432.5	39040.8	481.96 µg/L	481.96 ppb	23:45:30
1	Cr 267.716†	62111.2	61016.0	477.74 µg/L	477.74 ppb	23:45:30
1	Cu 324.752†	127832.7	122973.9	479.39 µg/L	479.39 ppb	23:45:30
1	Mn 257.610†	396902.5	390807.7	483.34 µg/L	483.34 ppb	23:45:30
1	Mo 202.031†	16367.7	16146.2	474.96 µg/L	474.96 ppb	23:45:50
1	Ni 231.604†	42121.9	41576.8	478.73 µg/L	478.73 ppb	23:45:30
1	P 214.914†	11245.4	11097.4	2365.3 µg/L	2365.3 ppb	23:45:50
1	Pb 220.353†	8777.1	8561.2	479.42 µg/L	479.42 ppb	23:45:50
1	S 181.975 Axial†	1374.9	1249.5	931.87 µg/L	931.87 ppb	23:45:50
1	Sb 206.836†	4133.7	3991.9	475.58 µg/L	475.58 ppb	23:45:50
1	Se 196.026†	1363.1	1327.7	482 µg/L	482 ppb	23:45:50
1	SiO2†	56167.1	53562.8	5214.9 µg/L	5214.9 ppb	23:45:30
1	Si 251.611†	170045.6	166699.5	2448.2 µg/L	2448.2 ppb	23:45:30
1	Sn 189.927†	7739.8	7626.7	477.06 µg/L	477.06 ppb	23:45:50
1	Ti 334.940†	523080.4	514408.2	479.98 µg/L	479.98 ppb	23:45:30
1	Tl 190.801†	3815.6	3875.9	483.43 µg/L	483.43 ppb	23:45:50
1	U 409.014†	7450.4	7610.3	474.06 µg/L	474.06 ppb	23:45:30
1	V 292.402†	99368.6	97498.3	481.94 µg/L	481.94 ppb	23:45:30
1	Zn 213.857†	87576.9	85720.0	477.77 µg/L	477.77 ppb	23:45:30
2	Sc RADIAL	143500.3	143500.3	98.3 %		23:45:07
2	Al 396.153Radial†	26117.8	26623.2	4913.8 µg/L	4913.8 ppb	23:45:07
2	Ca 317.933Radial†	85980.2	86875.2	4839.3 µg/L	4839.3 ppb	23:45:07
2	Fe 238.204 Radial†	77018.6	78174.4	4818.2 µg/L	4818.2 ppb	23:45:07
2	K 766.490 Radial†	14350.9	13049.0	4773.5 µg/L	4773.5 ppb	23:45:07
2	Mg 279.077 IEC†	13097.3	13128.4	4899.0 µg/L	4899.0 ppb	23:45:07
2	Na 589.592 Radial†	70405.7	70306.9	9600.5 µg/L	9600.5 ppb	23:45:07
2	Sr 421.552†	230191.6	234224.0	486.90 µg/L	486.90 ppb	23:45:05
2	Sc 361.383	1741142.3	1741142.3	101.33 %		23:45:53
2	Y 371.029	1028976.3	1028976.3	100.22 %		23:45:53
2	Ag 328.068†	133876.6	128022.6	480.04 µg/L	480.04 ppb	23:45:53
2	As 188.979†	1611.4	1610.6	494.02 µg/L	494.02 ppb	23:46:13
2	B 249.677†	36111.0	32129.7	472.20 µg/L	472.20 ppb	23:45:53
2	Ba 233.527†	120384.6	118935.4	479.66 µg/L	479.66 ppb	23:45:53
2	Be 313.107†	1798241.9	1775630.2	483.61 µg/L	483.61 ppb	23:45:53
2	Cd 226.502†	77471.2	76569.4	477.98 µg/L	477.98 ppb	23:45:53
2	Co 228.616†	39116.7	38792.0	478.89 µg/L	478.89 ppb	23:45:53
2	Cr 267.716†	61760.5	60768.7	475.81 µg/L	475.81 ppb	23:45:53
2	Cu 324.752†	127313.2	122664.7	478.18 µg/L	478.18 ppb	23:45:53
2	Mn 257.610†	395198.2	389757.6	482.04 µg/L	482.04 ppb	23:45:53
2	Mo 202.031†	16425.2	16229.0	477.39 µg/L	477.39 ppb	23:46:13
2	Ni 231.604†	42030.8	41554.0	478.46 µg/L	478.46 ppb	23:45:53
2	P 214.914†	11285.9	11155.2	2377.7 µg/L	2377.7 ppb	23:46:13
2	Pb 220.353†	8805.0	8602.7	481.74 µg/L	481.74 ppb	23:46:13

2	S 181.975 Axial†	1386.2	1262.9	941.84 µg/L	941.84 ppb	23:46:13
2	Sb 206.836†	4124.1	3989.0	475.29 µg/L	475.29 ppb	23:46:13
2	Se 196.026†	1357.9	1324.8	481 µg/L	481 ppb	23:46:13
2	SiO2†	55814.1	53303.9	5189.5 µg/L	5189.5 ppb	23:45:53
2	Si 251.611†	169030.5	165968.4	2437.3 µg/L	2437.3 ppb	23:45:53
2	Sn 189.927†	7760.3	7659.3	479.09 µg/L	479.09 ppb	23:46:13
2	Ti 334.940†	520780.4	512971.1	478.64 µg/L	478.64 ppb	23:45:53
2	Tl 190.801†	3842.4	3908.4	487.42 µg/L	487.42 ppb	23:46:13
2	U 409.014†	7450.4	7622.2	474.73 µg/L	474.73 ppb	23:45:53
2	V 292.402†	99152.5	97443.2	481.69 µg/L	481.69 ppb	23:45:53
2	Zn 213.857†	86966.1	85256.7	475.17 µg/L	475.17 ppb	23:45:53
3	Sc RADIAL	141926.1	141926.1	97.3 %		23:45:11
3	Al 396.153Radial†	25922.6	26717.1	4931.1 µg/L	4931.1 ppb	23:45:11
3	Ca 317.933Radial†	85061.3	86900.2	4840.7 µg/L	4840.7 ppb	23:45:11
3	Fe 238.204 Radial†	76232.3	78234.7	4821.9 µg/L	4821.9 ppb	23:45:11
3	K 766.490 Radial†	14404.4	13266.0	4852.9 µg/L	4852.9 ppb	23:45:11
3	Mg 279.077 IEC†	13020.1	13196.7	4924.4 µg/L	4924.4 ppb	23:45:11
3	Na 589.592 Radial†	69631.1	70304.6	9600.1 µg/L	9600.1 ppb	23:45:11
3	Sr 421.552†	231949.9	238628.3	496.06 µg/L	496.06 ppb	23:45:09
3	Sc 361.383	1729820.2	1729820.2	100.68 %		23:46:16
3	Y 371.029	1022158.2	1022158.2	99.559 %		23:46:16
3	Ag 328.068†	132876.1	127893.4	479.56 µg/L	479.56 ppb	23:46:16
3	As 188.979†	1593.5	1603.2	491.79 µg/L	491.79 ppb	23:46:36
3	B 249.677†	35994.3	32247.0	473.92 µg/L	473.92 ppb	23:46:16
3	Ba 233.527†	119768.8	119101.4	480.33 µg/L	480.33 ppb	23:46:16
3	Be 313.107†	1786026.7	1775111.9	483.47 µg/L	483.47 ppb	23:46:16
3	Cd 226.502†	76950.6	76552.6	477.87 µg/L	477.87 ppb	23:46:16
3	Co 228.616†	38889.1	38818.6	479.22 µg/L	479.22 ppb	23:46:16
3	Cr 267.716†	61424.2	60833.7	476.31 µg/L	476.31 ppb	23:46:16
3	Cu 324.752†	126247.1	122428.1	477.27 µg/L	477.27 ppb	23:46:16
3	Mn 257.610†	392394.3	389525.1	481.75 µg/L	481.75 ppb	23:46:16
3	Mo 202.031†	16372.3	16282.5	478.96 µg/L	478.96 ppb	23:46:36
3	Ni 231.604†	41712.3	41509.0	477.95 µg/L	477.95 ppb	23:46:16
3	P 214.914†	11238.3	11180.9	2383.2 µg/L	2383.2 ppb	23:46:36
3	Pb 220.353†	8781.7	8636.4	483.62 µg/L	483.62 ppb	23:46:36
3	S 181.975 Axial†	1376.5	1262.2	941.29 µg/L	941.29 ppb	23:46:36
3	Sb 206.836†	4136.7	4028.2	479.97 µg/L	479.97 ppb	23:46:36
3	Se 196.026†	1358.7	1334.3	485 µg/L	485 ppb	23:46:36
3	SiO2†	55649.6	53501.0	5208.7 µg/L	5208.7 ppb	23:46:16
3	Si 251.611†	167782.3	165820.3	2435.1 µg/L	2435.1 ppb	23:46:16
3	Sn 189.927†	7733.5	7682.7	480.55 µg/L	480.55 ppb	23:46:36
3	Ti 334.940†	517675.9	513251.1	478.89 µg/L	478.89 ppb	23:46:16
3	Tl 190.801†	3823.0	3914.0	488.10 µg/L	488.10 ppb	23:46:36
3	U 409.014†	7497.8	7717.4	480.25 µg/L	480.25 ppb	23:46:16
3	V 292.402†	98366.1	97302.5	481.02 µg/L	481.02 ppb	23:46:16
3	Zn 213.857†	86593.9	85448.7	476.25 µg/L	476.25 ppb	23:46:16

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1738305.8	101.17 %	0.435			0.43%
Sc RADIAL	143186.3	98.1 %	0.78			0.79%
Y 371.029	1027279.9	100.06 %	0.440			0.44%
Ag 328.068†	128076.9	480.24 µg/L	0.801	480.24 ppb	0.801	0.17%
QC value within limits for Ag 328.068 Recovery = 96.05%						
Al 396.153Radial†	26675.9	4923.5 µg/L	8.88	4923.5 ppb	8.88	0.18%
QC value within limits for Al 396.153Radial Recovery = 98.47%						
As 188.979†	1609.3	493.63 µg/L	1.680	493.63 ppb	1.680	0.34%
QC value within limits for As 188.979 Recovery = 98.73%						
B 249.677†	32219.3	473.51 µg/L	1.168	473.51 ppb	1.168	0.25%
QC value within limits for B 249.677 Recovery = 94.70%						
Ba 233.527†	119109.7	480.37 µg/L	0.719	480.37 ppb	0.719	0.15%
QC value within limits for Ba 233.527 Recovery = 96.07%						
Be 313.107†	1776700.4	483.90 µg/L	0.630	483.90 ppb	0.630	0.13%
QC value within limits for Be 313.107 Recovery = 96.78%						
Ca 317.933Radial†	86858.6	4838.4 µg/L	2.90	4838.4 ppb	2.90	0.06%
QC value within limits for Ca 317.933Radial Recovery = 96.77%						
Cd 226.502†	76649.4	478.48 µg/L	0.958	478.48 ppb	0.958	0.20%
QC value within limits for Cd 226.502 Recovery = 95.70%						
Co 228.616†	38883.8	480.02 µg/L	1.687	480.02 ppb	1.687	0.35%

QC value within limits for Co 228.616 Recovery = 96.00%							
Cr 267.716†	60872.8	476.62 µg/L	1.005	476.62 ppb	1.005	0.21%	
QC value within limits for Cr 267.716 Recovery = 95.32%							
Cu 324.752†	122688.9	478.28 µg/L	1.061	478.28 ppb	1.061	0.22%	
QC value within limits for Cu 324.752 Recovery = 95.66%							
Fe 238.204 Radial†	78187.4	4819.0 µg/L	2.61	4819.0 ppb	2.61	0.05%	
QC value within limits for Fe 238.204 Radial Recovery = 96.38%							
K 766.490 Radial†	13107.4	4794.9 µg/L	50.84	4794.9 ppb	50.84	1.06%	
QC value within limits for K 766.490 Radial Recovery = 95.90%							
Mg 279.077 IEC†	13154.4	4908.6 µg/L	13.80	4908.6 ppb	13.80	0.28%	
QC value within limits for Mg 279.077 IEC Recovery = 98.17%							
Mn 257.610†	390030.2	482.38 µg/L	0.846	482.38 ppb	0.846	0.18%	
QC value within limits for Mn 257.610 Recovery = 96.48%							
Mo 202.031†	16219.2	477.10 µg/L	2.018	477.10 ppb	2.018	0.42%	
QC value within limits for Mo 202.031 Recovery = 95.42%							
Na 589.592 Radial†	70283.3	9597.3 µg/L	5.29	9597.3 ppb	5.29	0.06%	
QC value within limits for Na 589.592 Radial Recovery = 95.97%							
Ni 231.604†	41546.6	478.38 µg/L	0.397	478.38 ppb	0.397	0.08%	
QC value within limits for Ni 231.604 Recovery = 95.68%							
P 214.914†	11144.5	2375.4 µg/L	9.15	2375.4 ppb	9.15	0.39%	
QC value within limits for P 214.914 Recovery = 95.02%							
Pb 220.353†	8600.1	481.59 µg/L	2.106	481.59 ppb	2.106	0.44%	
QC value within limits for Pb 220.353 Recovery = 96.32%							
S 181.975 Axial†	1258.2	938.33 µg/L	5.605	938.33 ppb	5.605	0.60%	
QC value within limits for S 181.975 Axial Recovery = 93.83%							
Sb 206.836†	4003.0	476.94 µg/L	2.622	476.94 ppb	2.622	0.55%	
QC value within limits for Sb 206.836 Recovery = 95.39%							
Se 196.026†	1329.0	483 µg/L	1.8	483 ppb	1.8	0.37%	
QC value within limits for Se 196.026 Recovery = 96.51%							
SiO2†	53455.9	5204.4 µg/L	13.25	5204.4 ppb	13.25	0.25%	
QC value within limits for SiO2 Recovery = 97.32%							
Si 251.611†	166162.8	2440.2 µg/L	6.98	2440.2 ppb	6.98	0.29%	
QC value within limits for Si 251.611 Recovery = 97.61%							
Sn 189.927†	7656.2	478.90 µg/L	1.752	478.90 ppb	1.752	0.37%	
QC value within limits for Sn 189.927 Recovery = 95.78%							
Sr 421.552†	235298.5	489.13 µg/L	6.119	489.13 ppb	6.119	1.25%	
QC value within limits for Sr 421.552 Recovery = 97.83%							
Ti 334.940†	513543.5	479.17 µg/L	0.712	479.17 ppb	0.712	0.15%	
QC value within limits for Ti 334.940 Recovery = 95.83%							
Tl 190.801†	3899.5	486.32 µg/L	2.525	486.32 ppb	2.525	0.52%	
QC value within limits for Tl 190.801 Recovery = 97.26%							
U 409.014†	7650.0	476.34 µg/L	3.400	476.34 ppb	3.400	0.71%	
QC value within limits for U 409.014 Recovery = 95.27%							
V 292.402†	97414.7	481.55 µg/L	0.473	481.55 ppb	0.473	0.10%	
QC value within limits for V 292.402 Recovery = 96.31%							
Zn 213.857†	85475.1	476.40 µg/L	1.307	476.40 ppb	1.307	0.27%	
QC value within limits for Zn 213.857 Recovery = 95.28%							
All analyte(s) passed QC.							

Sequence No.: 120  
 Sample ID: CCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 6  
 Date Collected: 3/31/2010 23:46:45  
 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	143139.1	143139.1	98.1 %		23:47:16
1	Al 396.153Radial†	-44.4	17.9	3.3413 µg/L	3.3413 ppb	23:47:36
1	Ca 317.933Radial†	582.0	32.8	1.8256 µg/L	1.8256 ppb	23:47:36
1	Fe 238.204 Radial†	254.9	111.7	6.8857 µg/L	6.8857 ppb	23:47:36
1	K 766.490 Radial†	1616.9	103.6	37.929 µg/L	37.929 ppb	23:47:16
1	Mg 279.077 IEC†	177.5	-9.8	-3.6543 µg/L	-3.6543 ppb	23:47:36
1	Na 589.592 Radial†	1371.1	107.0	14.589 µg/L	14.589 ppb	23:47:16
1	Sr 421.552†	-218.3	-87.3	-0.1815 µg/L	-0.1815 ppb	23:47:16
1	Sc 361.383	1721067.2	1721067.2	100.17 %		23:48:23
1	Y 371.029	1029992.5	1029992.5	100.32 %		23:48:23
1	Ag 328.068†	4263.3	164.8	0.5898 µg/L	0.5898 ppb	23:48:26
1	As 188.979†	-17.1	3.3	0.9838 µg/L	0.9838 ppb	23:48:46
1	B 249.677†	3587.8	76.0	1.1202 µg/L	1.1202 ppb	23:48:26
1	Ba 233.527†	-139.7	-3.6	-0.0153 µg/L	-0.0153 ppb	23:48:46
1	Be 313.107†	-1283.0	-216.2	-0.0609 µg/L	-0.0609 ppb	23:48:26
1	Cd 226.502†	-112.6	5.8	0.0354 µg/L	0.0354 ppb	23:48:46
1	Co 228.616†	-173.9	16.7	0.2052 µg/L	0.2052 ppb	23:48:46
1	Cr 267.716†	180.0	1.2	0.0142 µg/L	0.0142 ppb	23:48:46
1	Cu 324.752†	2926.2	-50.8	-0.2020 µg/L	-0.2020 ppb	23:48:26
1	Mn 257.610†	341.1	103.2	0.1279 µg/L	0.1279 ppb	23:48:46
1	Mo 202.031†	-33.0	-12.8	-0.3775 µg/L	-0.3775 ppb	23:48:46
1	Ni 231.604†	-84.7	-8.0	-0.0923 µg/L	-0.0923 ppb	23:48:46
1	P 214.914†	-12.9	5.1	1.1019 µg/L	1.1019 ppb	23:48:46
1	Pb 220.353†	98.0	11.4	0.6420 µg/L	0.6420 ppb	23:48:46
1	S 181.975 Axial†	101.0	-4.2	-3.1438 µg/L	-3.1438 ppb	23:48:46
1	Sb 206.836†	91.8	10.9	1.2860 µg/L	1.2860 ppb	23:48:46
1	Se 196.026†	14.8	-0.5	-0.177 µg/L	-0.177 ppb	23:48:46
1	SiO2†	1836.2	57.8	5.6538 µg/L	5.6538 ppb	23:48:46
1	Si 251.611†	1107.2	268.8	3.9640 µg/L	3.9640 ppb	23:48:26
1	Sn 189.927†	7.5	8.6	0.5360 µg/L	0.5360 ppb	23:48:46
1	Ti 334.940†	947.2	-6.9	-0.0034 µg/L	-0.0034 ppb	23:48:26
1	Tl 190.801†	-108.0	8.8	1.0752 µg/L	1.0752 ppb	23:48:46
1	U 409.014†	-383.9	-113.4	-6.6898 µg/L	-6.6898 ppb	23:48:26
1	V 292.402†	195.1	-209.0	-1.0288 µg/L	-1.0288 ppb	23:48:26
1	Zn 213.857†	592.8	27.4	0.1540 µg/L	0.1540 ppb	23:48:46
2	Sc RADIAL	142955.7	142955.7	98.0 %		23:47:38
2	Al 396.153Radial†	-78.4	-16.8	-3.1397 µg/L	-3.1397 ppb	23:47:58
2	Ca 317.933Radial†	568.8	20.0	1.1154 µg/L	1.1154 ppb	23:47:58
2	Fe 238.204 Radial†	246.3	103.3	6.3692 µg/L	6.3692 ppb	23:47:58
2	K 766.490 Radial†	1462.0	-52.3	-19.161 µg/L	-19.161 ppb	23:47:38
2	Mg 279.077 IEC†	183.1	-3.8	-1.4109 µg/L	-1.4109 ppb	23:47:58
2	Na 589.592 Radial†	1236.3	-28.8	-3.9154 µg/L	-3.9154 ppb	23:47:38
2	Sr 421.552†	-279.2	-149.7	-0.3112 µg/L	-0.3112 ppb	23:47:38
2	Sc 361.383	1746509.7	1746509.7	101.65 %		23:48:48
2	Y 371.029	1042959.8	1042959.8	101.58 %		23:48:48
2	Ag 328.068†	4265.0	104.5	0.3736 µg/L	0.3736 ppb	23:48:50
2	As 188.979†	-11.7	8.8	2.6655 µg/L	2.6655 ppb	23:49:10
2	B 249.677†	3506.2	-56.5	-0.8332 µg/L	-0.8332 ppb	23:48:50
2	Ba 233.527†	-121.9	16.0	0.0640 µg/L	0.0640 ppb	23:49:10
2	Be 313.107†	-723.9	352.5	0.0944 µg/L	0.0944 ppb	23:48:50
2	Cd 226.502†	-117.5	2.6	0.0156 µg/L	0.0156 ppb	23:49:10
2	Co 228.616†	-180.5	12.8	0.1572 µg/L	0.1572 ppb	23:49:10
2	Cr 267.716†	177.3	-4.1	-0.0284 µg/L	-0.0284 ppb	23:49:10
2	Cu 324.752†	3022.2	1.1	0.0009 µg/L	0.0009 ppb	23:48:50
2	Mn 257.610†	312.9	70.6	0.0874 µg/L	0.0874 ppb	23:49:10
2	Mo 202.031†	-8.4	11.8	0.3482 µg/L	0.3482 ppb	23:49:10
2	Ni 231.604†	-112.1	-33.8	-0.3893 µg/L	-0.3893 ppb	23:49:10
2	P 214.914†	-28.4	-10.0	-2.1529 µg/L	-2.1529 ppb	23:49:10
2	Pb 220.353†	61.6	-25.8	-1.4338 µg/L	-1.4338 ppb	23:49:10

2	S 181.975 Axial†	110.6	3.7	2.7632 µg/L	2.7632 ppb	23:49:10
2	Sb 206.836†	80.8	-1.3	-0.1519 µg/L	-0.1519 ppb	23:49:10
2	Se 196.026†	7.2	-8.2	-2.97 µg/L	-2.97 ppb	23:49:10
2	SiO2†	1816.0	11.2	1.0819 µg/L	1.0819 ppb	23:49:10
2	Si 251.611†	1081.7	227.6	3.3494 µg/L	3.3494 ppb	23:48:50
2	Sn 189.927†	2.0	3.1	0.1923 µg/L	0.1923 ppb	23:49:10
2	Ti 334.940†	932.7	-34.9	-0.0304 µg/L	-0.0304 ppb	23:48:50
2	Tl 190.801†	-106.3	12.1	1.4842 µg/L	1.4842 ppb	23:49:10
2	U 409.014†	-364.3	-88.6	-5.2117 µg/L	-5.2117 ppb	23:48:50
2	V 292.402†	290.2	-118.3	-0.5776 µg/L	-0.5776 ppb	23:48:50
2	Zn 213.857†	597.7	23.6	0.1343 µg/L	0.1343 ppb	23:49:10
3	Sc RADIAL	142060.8	142060.8	97.3 %		23:48:00
3	Al 396.153Radial†	-74.7	-13.5	-2.5097 µg/L	-2.5097 ppb	23:48:20
3	Ca 317.933Radial†	575.1	30.2	1.6799 µg/L	1.6799 ppb	23:48:20
3	Fe 238.204 Radial†	223.1	81.1	4.9991 µg/L	4.9991 ppb	23:48:20
3	K 766.490 Radial†	1632.6	132.3	48.447 µg/L	48.447 ppb	23:48:00
3	Mg 279.077 IEC†	208.7	23.7	8.8315 µg/L	8.8315 ppb	23:48:20
3	Na 589.592 Radial†	1308.6	53.4	7.2507 µg/L	7.2507 ppb	23:48:00
3	Sr 421.552†	-258.5	-130.3	-0.2709 µg/L	-0.2709 ppb	23:48:00
3	Sc 361.383	1726289.1	1726289.1	100.47 %		23:49:12
3	Y 371.029	1031437.7	1031437.7	100.46 %		23:49:12
3	Ag 328.068†	4170.2	59.3	0.2058 µg/L	0.2058 ppb	23:49:14
3	As 188.979†	-17.6	2.8	0.8598 µg/L	0.8598 ppb	23:49:34
3	B 249.677†	3575.5	52.9	0.7802 µg/L	0.7802 ppb	23:49:14
3	Ba 233.527†	-111.6	24.8	0.0994 µg/L	0.0994 ppb	23:49:34
3	Be 313.107†	-874.1	194.7	0.0518 µg/L	0.0518 ppb	23:49:14
3	Cd 226.502†	-142.0	-23.1	-0.1448 µg/L	-0.1448 ppb	23:49:34
3	Co 228.616†	-193.8	-2.6	-0.0317 µg/L	-0.0317 ppb	23:49:34
3	Cr 267.716†	191.0	11.5	0.0933 µg/L	0.0933 ppb	23:49:34
3	Cu 324.752†	2976.0	-10.1	-0.0417 µg/L	-0.0417 ppb	23:49:14
3	Mn 257.610†	330.2	91.4	0.1127 µg/L	0.1127 ppb	23:49:34
3	Mo 202.031†	-17.5	2.7	0.0796 µg/L	0.0796 ppb	23:49:34
3	Ni 231.604†	-80.8	-3.9	-0.0446 µg/L	-0.0446 ppb	23:49:34
3	P 214.914†	-31.6	-13.5	-2.8878 µg/L	-2.8878 ppb	23:49:34
3	Pb 220.353†	72.3	-14.4	-0.8013 µg/L	-0.8013 ppb	23:49:34
3	S 181.975 Axial†	108.9	3.3	2.4479 µg/L	2.4479 ppb	23:49:34
3	Sb 206.836†	90.6	9.4	1.1111 µg/L	1.1111 ppb	23:49:34
3	Se 196.026†	27.8	12.4	4.47 µg/L	4.47 ppb	23:49:34
3	SiO2†	1848.9	64.9	6.3403 µg/L	6.3403 ppb	23:49:34
3	Si 251.611†	1214.9	372.7	5.4917 µg/L	5.4917 ppb	23:49:14
3	Sn 189.927†	3.0	4.1	0.2558 µg/L	0.2558 ppb	23:49:34
3	Ti 334.940†	1155.8	197.9	0.1859 µg/L	0.1859 ppb	23:49:14
3	Tl 190.801†	-94.9	22.3	2.7336 µg/L	2.7336 ppb	23:49:34
3	U 409.014†	-341.4	-69.9	-4.1301 µg/L	-4.1301 ppb	23:49:14
3	V 292.402†	256.5	-148.5	-0.7266 µg/L	-0.7266 ppb	23:49:14
3	Zn 213.857†	589.1	22.0	0.1232 µg/L	0.1232 ppb	23:49:34

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Sc 361.383	1731288.6	100.76 %		0.782			0.78%
Sc RADIAL	142718.5	97.8 %		0.40			0.40%
Y 371.029	1034796.7	100.79 %		0.692			0.69%
Ag 328.068†	109.5	0.3897 µg/L		0.19255	0.3897 ppb	0.19255	49.40%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-4.1	-0.7694 µg/L		3.57387	-0.7694 ppb	3.57387	464.53%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	5.0	1.5030 µg/L		1.00867	1.5030 ppb	1.00867	67.11%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	24.1	0.3557 µg/L		1.04358	0.3557 ppb	1.04358	293.37%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	12.4	0.0494 µg/L		0.05873	0.0494 ppb	0.05873	118.93%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	110.4	0.0284 µg/L		0.08023	0.0284 ppb	0.08023	282.02%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	27.7	1.5403 µg/L		0.37512	1.5403 ppb	0.37512	24.35%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	-4.9	-0.0313 µg/L		0.09882	-0.0313 ppb	0.09882	315.68%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	9.0	0.1102 µg/L		0.12522	0.1102 ppb	0.12522	113.62%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	2.9 0.0263 µg/L	0.06173 0.0263 ppb	0.06173 234.26%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-20.0 -0.0809 µg/L	0.10696 -0.0809 ppb	0.10696 132.15%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	98.7 6.0847 µg/L	0.97498 6.0847 ppb	0.97498 16.02%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	61.2 22.405 µg/L	36.3791 22.405 ppb	36.3791 162.37%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	3.4 1.2555 µg/L	6.65627 1.2555 ppb	6.65627 530.18%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	88.4 0.1093 µg/L	0.02047 0.1093 ppb	0.02047 18.73%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	0.6 0.0168 µg/L	0.36692 0.0168 ppb	0.36692 >999.9%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	43.9 5.9749 µg/L	9.31815 5.9749 ppb	9.31815 155.96%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-15.2 -0.1754 µg/L	0.18674 -0.1754 ppb	0.18674 106.47%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	-6.1 -1.3129 µg/L	2.12332 -1.3129 ppb	2.12332 161.72%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-9.6 -0.5310 µg/L	1.06398 -0.5310 ppb	1.06398 200.37%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	0.9 0.6891 µg/L	3.32317 0.6891 ppb	3.32317 482.25%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	6.3 0.7484 µg/L	0.78460 0.7484 ppb	0.78460 104.84%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	1.2 0.441 µg/L	3.7613 0.441 ppb	3.7613 853.72%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	44.6 4.3586 µg/L	2.85844 4.3586 ppb	2.85844 65.58%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	289.7 4.2683 µg/L	1.10310 4.2683 ppb	1.10310 25.84%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	5.3 0.3280 µg/L	0.18288 0.3280 ppb	0.18288 55.75%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-122.4 -0.2545 µg/L	0.06637 -0.2545 ppb	0.06637 26.08%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	52.0 0.0507 µg/L	0.11782 0.0507 ppb	0.11782 232.33%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	14.4 1.7643 µg/L	0.86396 1.7643 ppb	0.86396 48.97%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-90.6 -5.3439 µg/L	1.28496 -5.3439 ppb	1.28496 24.05%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-158.6 -0.7777 µg/L	0.22990 -0.7777 ppb	0.22990 29.56%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	24.3 0.1372 µg/L	0.01563 0.1372 ppb	0.01563 11.39%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 128

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 4/1/2010 0:02:20

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	142272.6	142272.6	97.5 %		00:02:55
1	Al 396.153Radial†	25834.9	26562.2	4902.5 µg/L	4902.5 ppb	00:02:55
1	Ca 317.933Radial†	85088.7	86715.4	4830.4 µg/L	4830.4 ppb	00:02:55
1	Fe 238.204 Radial†	76256.0	78068.0	4811.6 µg/L	4811.6 ppb	00:02:55
1	K 766.490 Radial†	14327.9	13151.4	4811.0 µg/L	4811.0 ppb	00:02:55
1	Mg 279.077 IEC†	13155.4	13302.9	4964.0 µg/L	4964.0 ppb	00:02:55
1	Na 589.592 Radial†	69875.1	70380.5	9610.5 µg/L	9610.5 ppb	00:02:55
1	Sr 421.552†	226540.9	232499.5	483.31 µg/L	483.31 ppb	00:02:53
1	Sc 361.383	1723344.7	1723344.7	100.30 %		00:03:22
1	Y 371.029	1018123.7	1018123.7	99.166 %		00:03:22
1	Ag 328.068†	131945.7	127461.8	477.92 µg/L	477.92 ppb	00:03:22
1	As 188.979†	1604.1	1619.7	496.75 µg/L	496.75 ppb	00:03:42
1	B 249.677†	35591.1	31979.3	469.98 µg/L	469.98 ppb	00:03:22
1	Ba 233.527†	118724.6	118507.2	477.94 µg/L	477.94 ppb	00:03:22
1	Be 313.107†	1771703.0	1767496.7	481.39 µg/L	481.39 ppb	00:03:22
1	Cd 226.502†	76335.7	76226.8	475.84 µg/L	475.84 ppb	00:03:22
1	Co 228.616†	38760.4	38835.4	479.42 µg/L	479.42 ppb	00:03:22
1	Cr 267.716†	60900.3	60540.6	474.03 µg/L	474.03 ppb	00:03:22
1	Cu 324.752†	125251.0	121906.2	475.23 µg/L	475.23 ppb	00:03:22
1	Mn 257.610†	389076.6	387681.8	479.47 µg/L	479.47 ppb	00:03:22
1	Mo 202.031†	16257.1	16228.8	477.38 µg/L	477.38 ppb	00:03:42
1	Ni 231.604†	41472.4	41425.6	476.99 µg/L	476.99 ppb	00:03:22
1	P 214.914†	11164.5	11149.2	2376.4 µg/L	2376.4 ppb	00:03:42
1	Pb 220.353†	8662.0	8549.9	478.80 µg/L	478.80 ppb	00:03:42
1	S 181.975 Axial†	1361.8	1252.7	934.24 µg/L	934.24 ppb	00:03:42
1	Sb 206.836†	4090.1	3997.1	476.28 µg/L	476.28 ppb	00:03:42
1	Se 196.026†	1338.2	1318.9	479 µg/L	479 ppb	00:03:42
1	SiO2†	54668.7	52730.7	5133.5 µg/L	5133.5 ppb	00:03:22
1	Si 251.611†	165532.9	164203.9	2411.3 µg/L	2411.3 ppb	00:03:22
1	Sn 189.927†	7662.0	7640.4	477.90 µg/L	477.90 ppb	00:03:42
1	Ti 334.940†	512908.7	510430.3	476.26 µg/L	476.26 ppb	00:03:22
1	Tl 190.801†	3797.9	3903.2	486.73 µg/L	486.73 ppb	00:03:42
1	U 409.014†	7179.6	7428.1	463.23 µg/L	463.23 ppb	00:03:22
1	V 292.402†	97641.8	96947.5	479.26 µg/L	479.26 ppb	00:03:22
1	Zn 213.857†	85689.4	84870.1	473.01 µg/L	473.01 ppb	00:03:22
2	Sc RADIAL	141674.6	141674.6	97.1 %		00:02:59
2	Al 396.153Radial†	25757.6	26594.5	4908.2 µg/L	4908.2 ppb	00:02:59
2	Ca 317.933Radial†	84226.0	86195.1	4801.4 µg/L	4801.4 ppb	00:02:59
2	Fe 238.204 Radial†	75439.4	77557.1	4780.1 µg/L	4780.1 ppb	00:02:59
2	K 766.490 Radial†	14248.6	13131.7	4803.8 µg/L	4803.8 ppb	00:02:59
2	Mg 279.077 IEC†	12899.8	13096.5	4887.2 µg/L	4887.2 ppb	00:02:59
2	Na 589.592 Radial†	69141.1	69926.9	9548.6 µg/L	9548.6 ppb	00:02:59
2	Sr 421.552†	226612.3	233553.9	485.51 µg/L	485.51 ppb	00:02:57
2	Sc 361.383	1708258.8	1708258.8	99.420 %		00:03:45
2	Y 371.029	1010097.1	1010097.1	98.384 %		00:03:45
2	Ag 328.068†	130950.0	127622.0	478.53 µg/L	478.53 ppb	00:03:45
2	As 188.979†	1596.3	1626.0	498.65 µg/L	498.65 ppb	00:04:05
2	B 249.677†	35330.7	32030.8	470.74 µg/L	470.74 ppb	00:03:45
2	Ba 233.527†	117712.3	118534.4	478.05 µg/L	478.05 ppb	00:03:45
2	Be 313.107†	1753739.6	1765028.3	480.72 µg/L	480.72 ppb	00:03:45
2	Cd 226.502†	75285.2	75842.3	473.44 µg/L	473.44 ppb	00:03:45
2	Co 228.616†	38223.9	38637.1	476.98 µg/L	476.98 ppb	00:03:45
2	Cr 267.716†	60168.0	60340.2	472.45 µg/L	472.45 ppb	00:03:45
2	Cu 324.752†	124409.3	122162.4	476.22 µg/L	476.22 ppb	00:03:45
2	Mn 257.610†	385236.3	387244.9	478.93 µg/L	478.93 ppb	00:03:45
2	Mo 202.031†	16271.7	16386.7	482.02 µg/L	482.02 ppb	00:04:05
2	Ni 231.604†	41015.7	41331.3	475.90 µg/L	475.90 ppb	00:03:45
2	P 214.914†	11176.6	11259.7	2400.0 µg/L	2400.0 ppb	00:04:05
2	Pb 220.353†	8757.4	8722.1	488.42 µg/L	488.42 ppb	00:04:05



2	S 181.975 Axial†	1369.4	1272.3	948.85 µg/L	948.85 ppb	00:04:05
2	Sb 206.836†	4104.3	4047.4	482.36 µg/L	482.36 ppb	00:04:05
2	Se 196.026†	1334.2	1326.7	482 µg/L	482 ppb	00:04:05
2	SiO2†	54367.2	52908.8	5150.7 µg/L	5150.7 ppb	00:03:45
2	Si 251.611†	164236.7	164357.7	2413.5 µg/L	2413.5 ppb	00:03:45
2	Sn 189.927†	7684.5	7730.4	483.52 µg/L	483.52 ppb	00:04:05
2	Ti 334.940†	509083.5	511098.8	476.89 µg/L	476.89 ppb	00:03:45
2	Tl 190.801†	3778.4	3917.1	488.46 µg/L	488.46 ppb	00:04:05
2	U 409.014†	7230.8	7542.9	469.95 µg/L	469.95 ppb	00:03:45
2	V 292.402†	96807.6	96968.1	479.41 µg/L	479.41 ppb	00:03:45
2	Zn 213.857†	85025.4	84956.7	473.50 µg/L	473.50 ppb	00:03:45
3	Sc RADIAL	141547.4	141547.4	97.0 %		00:03:03
3	Al 396.153Radial†	25657.4	26515.0	4893.6 µg/L	4893.6 ppb	00:03:03
3	Ca 317.933Radial†	84401.5	86454.0	4815.8 µg/L	4815.8 ppb	00:03:03
3	Fe 238.204 Radial†	75869.9	78070.8	4811.8 µg/L	4811.8 ppb	00:03:03
3	K 766.490 Radial†	14363.1	13263.0	4851.8 µg/L	4851.8 ppb	00:03:03
3	Mg 279.077 IEC†	13049.5	13262.8	4949.1 µg/L	4949.1 ppb	00:03:03
3	Na 589.592 Radial†	69248.3	70101.5	9572.4 µg/L	9572.4 ppb	00:03:03
3	Sr 421.552†	225485.7	232602.1	483.53 µg/L	483.53 ppb	00:03:01
3	Sc 361.383	1723903.5	1723903.5	100.33 %		00:04:08
3	Y 371.029	1019569.4	1019569.4	99.307 %		00:04:08
3	Ag 328.068†	132444.2	127916.0	479.62 µg/L	479.62 ppb	00:04:08
3	As 188.979†	1613.5	1628.6	499.46 µg/L	499.46 ppb	00:04:28
3	B 249.677†	35582.2	31958.9	469.67 µg/L	469.67 ppb	00:04:08
3	Ba 233.527†	119047.5	118790.7	479.08 µg/L	479.08 ppb	00:04:08
3	Be 313.107†	1772270.1	1767489.4	481.39 µg/L	481.39 ppb	00:04:08
3	Cd 226.502†	76487.5	76353.5	476.63 µg/L	476.63 ppb	00:04:08
3	Co 228.616†	38833.9	38896.2	480.17 µg/L	480.17 ppb	00:04:08
3	Cr 267.716†	61033.0	60653.2	474.91 µg/L	474.91 ppb	00:04:08
3	Cu 324.752†	125468.6	122082.6	475.91 µg/L	475.91 ppb	00:04:08
3	Mn 257.610†	389266.3	387745.1	479.55 µg/L	479.55 ppb	00:04:08
3	Mo 202.031†	16339.7	16305.9	479.65 µg/L	479.65 ppb	00:04:28
3	Ni 231.604†	41581.8	41521.1	478.09 µg/L	478.09 ppb	00:04:08
3	P 214.914†	11255.6	11236.5	2395.1 µg/L	2395.1 ppb	00:04:28
3	Pb 220.353†	8754.3	8639.1	483.78 µg/L	483.78 ppb	00:04:28
3	S 181.975 Axial†	1381.4	1271.8	948.44 µg/L	948.44 ppb	00:04:28
3	Sb 206.836†	4114.1	4019.7	478.99 µg/L	478.99 ppb	00:04:28
3	Se 196.026†	1349.5	1329.8	483 µg/L	483 ppb	00:04:28
3	SiO2†	54853.6	52897.3	5149.7 µg/L	5149.7 ppb	00:04:08
3	Si 251.611†	165883.5	164499.8	2415.6 µg/L	2415.6 ppb	00:04:08
3	Sn 189.927†	7726.9	7702.6	481.78 µg/L	481.78 ppb	00:04:28
3	Ti 334.940†	513749.8	511102.8	476.89 µg/L	476.89 ppb	00:04:08
3	Tl 190.801†	3835.7	3939.7	491.22 µg/L	491.22 ppb	00:04:28
3	U 409.014†	7224.4	7470.4	465.75 µg/L	465.75 ppb	00:04:08
3	V 292.402†	97852.6	97126.1	480.16 µg/L	480.16 ppb	00:04:08
3	Zn 213.857†	85877.0	85029.4	473.89 µg/L	473.89 ppb	00:04:08

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1718502.3	100.02 %	0.517			0.52%
Sc RADIAL	141831.6	97.2 %	0.27			0.27%
Y 371.029	1015930.0	98.952 %	0.4970			0.50%
Ag 328.068†	127666.6	478.69 µg/L	0.860	478.69 ppb	0.860	0.18%
QC value within limits for Ag 328.068 Recovery = 95.74%						
Al 396.153Radial†	26557.2	4901.4 µg/L	7.37	4901.4 ppb	7.37	0.15%
QC value within limits for Al 396.153Radial Recovery = 98.03%						
As 188.979†	1624.7	498.29 µg/L	1.393	498.29 ppb	1.393	0.28%
QC value within limits for As 188.979 Recovery = 99.66%						
B 249.677†	31989.7	470.13 µg/L	0.552	470.13 ppb	0.552	0.12%
QC value within limits for B 249.677 Recovery = 94.03%						
Ba 233.527†	118610.7	478.35 µg/L	0.631	478.35 ppb	0.631	0.13%
QC value within limits for Ba 233.527 Recovery = 95.67%						
Be 313.107†	1766671.5	481.16 µg/L	0.387	481.16 ppb	0.387	0.08%
QC value within limits for Be 313.107 Recovery = 96.23%						
Ca 317.933Radial†	86454.8	4815.9 µg/L	14.49	4815.9 ppb	14.49	0.30%
QC value within limits for Ca 317.933Radial Recovery = 96.32%						
Cd 226.502†	76140.8	475.30 µg/L	1.661	475.30 ppb	1.661	0.35%
QC value within limits for Cd 226.502 Recovery = 95.06%						
Co 228.616†	38789.5	478.86 µg/L	1.671	478.86 ppb	1.671	0.35%

QC value within limits for Co 228.616	Recovery = 95.77%			
Cr 267.716†	60511.3	473.80 µg/L	1.244	473.80 ppb
QC value within limits for Cr 267.716	Recovery = 94.76%			
Cu 324.752†	122050.4	475.79 µg/L	0.509	475.79 ppb
QC value within limits for Cu 324.752	Recovery = 95.16%			
Fe 238.204 Radial†	77898.6	4801.2 µg/L	18.23	4801.2 ppb
QC value within limits for Fe 238.204 Radial	Recovery = 96.02%			
K 766.490 Radial†	13182.1	4822.2 µg/L	25.92	4822.2 ppb
QC value within limits for K 766.490 Radial	Recovery = 96.44%			
Mg 279.077 IEC†	13220.7	4933.4 µg/L	40.70	4933.4 ppb
QC value within limits for Mg 279.077 IEC	Recovery = 98.67%			
Mn 257.610†	387557.3	479.32 µg/L	0.335	479.32 ppb
QC value within limits for Mn 257.610	Recovery = 95.86%			
Mo 202.031†	16307.1	479.68 µg/L	2.318	479.68 ppb
QC value within limits for Mo 202.031	Recovery = 95.94%			
Na 589.592 Radial†	70136.3	9577.2 µg/L	31.25	9577.2 ppb
QC value within limits for Na 589.592 Radial	Recovery = 95.77%			
Ni 231.604†	41426.0	476.99 µg/L	1.093	476.99 ppb
QC value within limits for Ni 231.604	Recovery = 95.40%			
P 214.914†	11215.1	2390.5 µg/L	12.46	2390.5 ppb
QC value within limits for P 214.914	Recovery = 95.62%			
Pb 220.353†	8637.0	483.66 µg/L	4.812	483.66 ppb
QC value within limits for Pb 220.353	Recovery = 96.73%			
S 181.975 Axial†	1265.6	943.84 µg/L	8.319	943.84 ppb
QC value within limits for S 181.975 Axial	Recovery = 94.38%			
Sb 206.836†	4021.4	479.21 µg/L	3.045	479.21 ppb
QC value within limits for Sb 206.836	Recovery = 95.84%			
Se 196.026†	1325.1	481 µg/L	2.0	481 ppb
QC value within limits for Se 196.026	Recovery = 96.23%			
SiO2†	52845.6	5144.6 µg/L	9.64	5144.6 ppb
QC value within limits for SiO2	Recovery = 96.21%			
Si 251.611†	164353.8	2413.5 µg/L	2.15	2413.5 ppb
QC value within limits for Si 251.611	Recovery = 96.54%			
Sn 189.927†	7691.1	481.07 µg/L	2.875	481.07 ppb
QC value within limits for Sn 189.927	Recovery = 96.21%			
Sr 421.552†	232885.1	484.12 µg/L	1.209	484.12 ppb
QC value within limits for Sr 421.552	Recovery = 96.82%			
Ti 334.940†	510877.3	476.68 µg/L	0.363	476.68 ppb
QC value within limits for Ti 334.940	Recovery = 95.34%			
Tl 190.801†	3920.0	488.80 µg/L	2.267	488.80 ppb
QC value within limits for Tl 190.801	Recovery = 97.76%			
U 409.014†	7480.5	466.31 µg/L	3.394	466.31 ppb
QC value within limits for U 409.014	Recovery = 93.26%			
V 292.402†	97013.9	479.61 µg/L	0.482	479.61 ppb
QC value within limits for V 292.402	Recovery = 95.92%			
Zn 213.857†	84952.0	473.47 µg/L	0.445	473.47 ppb
QC value within limits for Zn 213.857	Recovery = 94.69%			

All analyte(s) passed QC.

Sequence No.: 129

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 4/1/2010 0:04:36

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	143892.3	143892.3	98.6 %			00:05:07
1	Al 396.153Radial†	-53.6	8.8	1.6408 µg/L		1.6408 ppb	00:05:27
1	Ca 317.933Radial†	596.6	44.5	2.4784 µg/L		2.4784 ppb	00:05:27
1	Fe 238.204 Radial†	205.5	60.3	3.7183 µg/L		3.7183 ppb	00:05:27
1	K 766.490 Radial†	1617.6	95.8	35.061 µg/L		35.061 ppb	00:05:07
1	Mg 279.077 IEC†	160.3	-28.1	-10.484 µg/L		-10.484 ppb	00:05:27
1	Na 589.592 Radial†	1235.1	-38.2	-5.2555 µg/L		-5.2555 ppb	00:05:07
1	Sr 421.552†	-186.7	-54.0	-0.1123 µg/L		-0.1123 ppb	00:05:07
1	Sc 361.383	1744559.9	1744559.9	101.53 %			00:06:14
1	Y 371.029	1042741.7	1042741.7	101.56 %			00:06:14
1	Ag 328.068†	4186.7	32.1	0.1193 µg/L		0.1193 ppb	00:06:17
1	As 188.979†	-18.7	2.0	0.5980 µg/L		0.5980 ppb	00:06:37
1	B 249.677†	3571.6	11.8	0.1730 µg/L		0.1730 ppb	00:06:17
1	Ba 233.527†	-139.2	-1.2	-0.0046 µg/L		-0.0046 ppb	00:06:37
1	Be 313.107†	-1043.9	36.6	0.0085 µg/L		0.0085 ppb	00:06:17
1	Cd 226.502†	-108.8	11.0	0.0685 µg/L		0.0685 ppb	00:06:37
1	Co 228.616†	-174.1	18.9	0.2327 µg/L		0.2327 ppb	00:06:37
1	Cr 267.716†	183.3	2.0	0.0199 µg/L		0.0199 ppb	00:06:37
1	Cu 324.752†	3077.4	58.7	0.2245 µg/L		0.2245 ppb	00:06:17
1	Mn 257.610†	338.8	96.5	0.1197 µg/L		0.1197 ppb	00:06:37
1	Mo 202.031†	-20.8	-0.4	-0.0123 µg/L		-0.0123 ppb	00:06:37
1	Ni 231.604†	-93.1	-15.2	-0.1747 µg/L		-0.1747 ppb	00:06:37
1	P 214.914†	-36.4	-17.9	-3.8259 µg/L		-3.8259 ppb	00:06:37
1	Pb 220.353†	57.3	-30.0	-1.6686 µg/L		-1.6686 ppb	00:06:37
1	S 181.975 Axial†	88.1	-18.3	-13.601 µg/L		-13.601 ppb	00:06:37
1	Sb 206.836†	79.5	-2.5	-0.2998 µg/L		-0.2998 ppb	00:06:37
1	Se 196.026†	9.3	-6.1	-2.21 µg/L		-2.21 ppb	00:06:37
1	SiO2†	1791.0	-11.4	-1.1250 µg/L		-1.1250 ppb	00:06:37
1	Si 251.611†	1010.1	158.3	2.3292 µg/L		2.3292 ppb	00:06:17
1	Sn 189.927†	11.2	12.2	0.7593 µg/L		0.7593 ppb	00:06:37
1	Ti 334.940†	1000.8	33.1	0.0339 µg/L		0.0339 ppb	00:06:17
1	Tl 190.801†	-110.0	8.4	1.0319 µg/L		1.0319 ppb	00:06:37
1	U 409.014†	-359.2	-83.8	-4.8714 µg/L		-4.8714 ppb	00:06:17
1	V 292.402†	522.7	111.1	0.5380 µg/L		0.5380 ppb	00:06:17
1	Zn 213.857†	593.2	19.8	0.1119 µg/L		0.1119 ppb	00:06:37
2	Sc RADIAL	143483.1	143483.1	98.3 %			00:05:29
2	Al 396.153Radial†	-16.6	46.3	8.5924 µg/L		8.5924 ppb	00:05:49
2	Ca 317.933Radial†	577.4	26.6	1.4835 µg/L		1.4835 ppb	00:05:49
2	Fe 238.204 Radial†	204.6	60.0	3.6989 µg/L		3.6989 ppb	00:05:49
2	K 766.490 Radial†	1704.3	188.6	69.053 µg/L		69.053 ppb	00:05:29
2	Mg 279.077 IEC†	189.1	1.6	0.6009 µg/L		0.6009 ppb	00:05:49
2	Na 589.592 Radial†	1220.1	-49.9	-6.8835 µg/L		-6.8835 ppb	00:05:29
2	Sr 421.552†	-161.7	-29.2	-0.0607 µg/L		-0.0607 ppb	00:05:29
2	Sc 361.383	1736410.2	1736410.2	101.06 %			00:06:39
2	Y 371.029	1038399.6	1038399.6	101.14 %			00:06:39
2	Ag 328.068†	4135.3	0.6	-0.0060 µg/L		-0.0060 ppb	00:06:41
2	As 188.979†	-19.2	1.4	0.4208 µg/L		0.4208 ppb	00:07:01
2	B 249.677†	3492.1	-50.3	-0.7427 µg/L		-0.7427 ppb	00:06:41
2	Ba 233.527†	-117.3	19.8	0.0792 µg/L		0.0792 ppb	00:07:01
2	Be 313.107†	-747.8	324.8	0.0886 µg/L		0.0886 ppb	00:06:41
2	Cd 226.502†	-105.9	13.4	0.0831 µg/L		0.0831 ppb	00:07:01
2	Co 228.616†	-184.9	7.4	0.0911 µg/L		0.0911 ppb	00:07:01
2	Cr 267.716†	192.3	11.7	0.0910 µg/L		0.0910 ppb	00:07:01
2	Cu 324.752†	2966.8	-36.5	-0.1408 µg/L		-0.1408 ppb	00:06:41
2	Mn 257.610†	298.6	58.2	0.0720 µg/L		0.0720 ppb	00:07:01
2	Mo 202.031†	-25.8	-5.5	-0.1614 µg/L		-0.1614 ppb	00:07:01
2	Ni 231.604†	-94.3	-16.8	-0.1933 µg/L		-0.1933 ppb	00:07:01
2	P 214.914†	-43.0	-24.6	-5.2673 µg/L		-5.2673 ppb	00:07:01
2	Pb 220.353†	50.6	-36.3	-2.0267 µg/L		-2.0267 ppb	00:07:01

2	S 181.975 Axial†	98.0	-8.1	-5.9976 µg/L	-5.9976 ppb	00:07:01
2	Sb 206.836†	73.1	-8.5	-1.0121 µg/L	-1.0121 ppb	00:07:01
2	Se 196.026†	7.4	-8.0	-2.88 µg/L	-2.88 ppb	00:07:01
2	SiO2†	1801.8	7.6	0.7460 µg/L	0.7460 ppb	00:07:01
2	Si 251.611†	1048.9	201.3	2.9711 µg/L	2.9711 ppb	00:06:41
2	Sn 189.927†	-3.4	-2.2	-0.1383 µg/L	-0.1383 ppb	00:07:01
2	Ti 334.940†	957.4	-5.2	-0.0051 µg/L	-0.0051 ppb	00:06:41
2	Tl 190.801†	-118.7	-0.7	-0.0961 µg/L	-0.0961 ppb	00:07:01
2	U 409.014†	-264.8	7.9	0.4182 µg/L	0.4182 ppb	00:06:41
2	V 292.402†	254.9	-151.6	-0.7409 µg/L	-0.7409 ppb	00:06:41
2	Zn 213.857†	612.2	41.4	0.2335 µg/L	0.2335 ppb	00:07:01
3	Sc RADIAL	142535.7	142535.7	97.7 %		00:05:51
3	Al 396.153Radial†	-83.5	-22.3	-4.1548 µg/L	-4.1548 ppb	00:06:11
3	Ca 317.933Radial†	597.4	51.0	2.8434 µg/L	2.8434 ppb	00:06:11
3	Fe 238.204 Radial†	191.0	47.4	2.9218 µg/L	2.9218 ppb	00:06:11
3	K 766.490 Radial†	1524.6	16.2	5.9151 µg/L	5.9151 ppb	00:05:51
3	Mg 279.077 IEC†	219.6	34.1	12.715 µg/L	12.715 ppb	00:06:11
3	Na 589.592 Radial†	1205.9	-56.2	-7.6775 µg/L	-7.6775 ppb	00:05:51
3	Sr 421.552†	-165.9	-34.5	-0.0718 µg/L	-0.0718 ppb	00:05:51
3	Sc 361.383	1751391.9	1751391.9	101.93 %		00:07:03
3	Y 371.029	1047163.4	1047163.4	101.99 %		00:07:03
3	Ag 328.068†	4086.1	-82.7	-0.3037 µg/L	-0.3037 ppb	00:07:05
3	As 188.979†	-20.4	0.3	0.0989 µg/L	0.0989 ppb	00:07:25
3	B 249.677†	3537.9	-35.0	-0.5172 µg/L	-0.5172 ppb	00:07:05
3	Ba 233.527†	-136.9	1.6	0.0063 µg/L	0.0063 ppb	00:07:25
3	Be 313.107†	-940.8	141.7	0.0400 µg/L	0.0400 ppb	00:07:05
3	Cd 226.502†	-99.2	20.8	0.1299 µg/L	0.1299 ppb	00:07:25
3	Co 228.616†	-163.1	30.3	0.3737 µg/L	0.3737 ppb	00:07:25
3	Cr 267.716†	180.0	-1.9	-0.0191 µg/L	-0.0191 ppb	00:07:25
3	Cu 324.752†	2988.8	-40.1	-0.1508 µg/L	-0.1508 ppb	00:07:05
3	Mn 257.610†	300.0	57.1	0.0701 µg/L	0.0701 ppb	00:07:25
3	Mo 202.031†	-9.2	11.0	0.3249 µg/L	0.3249 ppb	00:07:25
3	Ni 231.604†	-68.4	9.4	0.1086 µg/L	0.1086 ppb	00:07:25
3	P 214.914†	-25.2	-6.8	-1.4485 µg/L	-1.4485 ppb	00:07:25
3	Pb 220.353†	102.3	13.9	0.7747 µg/L	0.7747 ppb	00:07:25
3	S 181.975 Axial†	101.0	-6.0	-4.4167 µg/L	-4.4167 ppb	00:07:25
3	Sb 206.836†	94.0	11.4	1.3649 µg/L	1.3649 ppb	00:07:25
3	Se 196.026†	14.1	-1.5	-0.521 µg/L	-0.521 ppb	00:07:25
3	SiO2†	1807.8	-1.8	-0.1882 µg/L	-0.1882 ppb	00:07:25
3	Si 251.611†	933.4	79.1	1.1603 µg/L	1.1603 ppb	00:07:05
3	Sn 189.927†	4.0	5.0	0.3117 µg/L	0.3117 ppb	00:07:25
3	Ti 334.940†	864.7	-104.2	-0.1002 µg/L	-0.1002 ppb	00:07:05
3	Tl 190.801†	-114.3	4.5	0.5538 µg/L	0.5538 ppb	00:07:25
3	U 409.014†	-194.1	79.5	4.6318 µg/L	4.6318 ppb	00:07:05
3	V 292.402†	357.1	-53.4	-0.2545 µg/L	-0.2545 ppb	00:07:05
3	Zn 213.857†	596.1	20.4	0.1133 µg/L	0.1133 ppb	00:07:25

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1744120.7	101.51 %	0.437			0.43%
Sc RADIAL	143303.7	98.2 %	0.48			0.49%
Y 371.029	1042768.2	101.57 %	0.427			0.42%
Ag 328.068†	-16.6	-0.0635 µg/L	0.21725	-0.0635 ppb	0.21725	342.30%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	10.9	2.0261 µg/L	6.38236	2.0261 ppb	6.38236	315.00%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.2	0.3726 µg/L	0.25303	0.3726 ppb	0.25303	67.91%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-24.5	-0.3623 µg/L	0.47710	-0.3623 ppb	0.47710	131.69%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	6.7	0.0270 µg/L	0.04553	0.0270 ppb	0.04553	168.83%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	167.7	0.0457 µg/L	0.04035	0.0457 ppb	0.04035	88.33%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	40.7	2.2684 µg/L	0.70382	2.2684 ppb	0.70382	31.03%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	15.1	0.0938 µg/L	0.03210	0.0938 ppb	0.03210	34.21%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	18.9	0.2325 µg/L	0.14130	0.2325 ppb	0.14130	60.78%

Cr	267.716†	3.9	0.0306 µg/L	0.05579	0.0306 ppb	0.05579	182.28%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cu	324.752†	-5.9	-0.0224 µg/L	0.21387	-0.0224 ppb	0.21387	955.96%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	55.9	3.4463 µg/L	0.45435	3.4463 ppb	0.45435	13.18%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	100.2	36.676 µg/L	31.5999	36.676 ppb	31.5999	86.16%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	2.5	0.9439 µg/L	11.60357	0.9439 ppb	11.60357	>999.9%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	70.6	0.0873 µg/L	0.02814	0.0873 ppb	0.02814	32.24%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	1.7	0.0504 µg/L	0.24911	0.0504 ppb	0.24911	494.16%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-48.1	-6.6055 µg/L	1.23471	-6.6055 ppb	1.23471	18.69%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-7.5	-0.0864 µg/L	0.16920	-0.0864 ppb	0.16920	195.76%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-16.4	-3.5139 µg/L	1.92839	-3.5139 ppb	1.92839	54.88%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-17.4	-0.9735 µg/L	1.52458	-0.9735 ppb	1.52458	156.60%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-10.8	-8.0052 µg/L	4.91049	-8.0052 ppb	4.91049	61.34%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	0.1	0.0176 µg/L	1.21991	0.0176 ppb	1.21991	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-5.2	-1.87 µg/L	1.214	-1.87 ppb	1.214	64.95%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		-1.9	-0.1891 µg/L	0.93549	-0.1891 ppb	0.93549	494.80%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	146.3	2.1535 µg/L	0.91811	2.1535 ppb	0.91811	42.63%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	5.0	0.3109 µg/L	0.44879	0.3109 ppb	0.44879	144.35%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-39.2	-0.0816 µg/L	0.02715	-0.0816 ppb	0.02715	33.27%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	-25.4	-0.0238 µg/L	0.06900	-0.0238 ppb	0.06900	289.80%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	4.1	0.4965 µg/L	0.56617	0.4965 ppb	0.56617	114.03%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	1.2	0.0595 µg/L	4.76174	0.0595 ppb	4.76174	>999.9%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-31.3	-0.1525 µg/L	0.64551	-0.1525 ppb	0.64551	423.36%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	27.2	0.1529 µg/L	0.06978	0.1529 ppb	0.06978	45.64%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 135

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 0:18:32

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	143693.3	143693.3	98.5 %		00:19:06
1	Al 396.153Radial†	26289.1	26761.5	4939.5 µg/L	4939.5 ppb	00:19:06
1	Ca 317.933Radial†	86223.9	87005.4	4846.5 µg/L	4846.5 ppb	00:19:06
1	Fe 238.204 Radial†	77323.2	78378.5	4830.8 µg/L	4830.8 ppb	00:19:06
1	K 766.490 Radial†	14642.3	13325.5	4874.7 µg/L	4874.7 ppb	00:19:06
1	Mg 279.077 IEC†	13274.7	13290.6	4959.3 µg/L	4959.3 ppb	00:19:06
1	Na 589.592 Radial†	70897.3	70710.0	9655.5 µg/L	9655.5 ppb	00:19:06
1	Sr 421.552†	232660.3	236416.7	491.46 µg/L	491.46 ppb	00:19:04
1	Sc 361.383	1732669.7	1732669.7	100.84 %		00:19:19
1	Y 371.029	1023558.0	1023558.0	99.695 %		00:19:19
1	Ag 328.068†	133158.4	127956.3	479.77 µg/L	479.77 ppb	00:19:19
1	As 188.979†	1602.0	1609.0	493.54 µg/L	493.54 ppb	00:19:39
1	B 249.677†	35761.2	31957.0	469.65 µg/L	469.65 ppb	00:19:19
1	Ba 233.527†	119556.3	118694.9	478.69 µg/L	478.69 ppb	00:19:19
1	Be 313.107†	1785943.3	1772111.6	482.65 µg/L	482.65 ppb	00:19:19
1	Cd 226.502†	76830.5	76307.9	476.34 µg/L	476.34 ppb	00:19:19
1	Co 228.616†	38954.2	38819.6	479.23 µg/L	479.23 ppb	00:19:19
1	Cr 267.716†	61438.6	60747.5	475.65 µg/L	475.65 ppb	00:19:19
1	Cu 324.752†	126552.0	122524.2	477.63 µg/L	477.63 ppb	00:19:19
1	Mn 257.610†	392610.6	389098.6	481.22 µg/L	481.22 ppb	00:19:19
1	Mo 202.031†	16258.5	16143.0	474.86 µg/L	474.86 ppb	00:19:39
1	Ni 231.604†	41699.2	41427.9	477.01 µg/L	477.01 ppb	00:19:19
1	P 214.914†	11155.2	11080.1	2361.6 µg/L	2361.6 ppb	00:19:39
1	Pb 220.353†	8723.1	8564.0	479.58 µg/L	479.58 ppb	00:19:39
1	S 181.975 Axial†	1371.1	1254.6	935.65 µg/L	935.65 ppb	00:19:39
1	Sb 206.836†	4108.1	3993.0	475.73 µg/L	475.73 ppb	00:19:39
1	Se 196.026†	1329.1	1302.7	473 µg/L	473 ppb	00:19:39
1	SiO2†	54892.2	52659.0	5126.6 µg/L	5126.6 ppb	00:19:19
1	Si 251.611†	165952.1	163731.3	2404.4 µg/L	2404.4 ppb	00:19:19
1	Sn 189.927†	7677.7	7614.8	476.32 µg/L	476.32 ppb	00:19:39
1	Ti 334.940†	518688.0	513409.1	479.05 µg/L	479.05 ppb	00:19:19
1	Tl 190.801†	3776.5	3861.7	481.67 µg/L	481.67 ppb	00:19:39
1	U 409.014†	7234.1	7443.7	464.23 µg/L	464.23 ppb	00:19:19
1	V 292.402†	98487.7	97262.4	480.77 µg/L	480.77 ppb	00:19:19
1	Zn 213.857†	86132.8	84849.9	472.89 µg/L	472.89 ppb	00:19:19
2	Sc RADIAL	143019.1	143019.1	98.0 %		00:19:11
2	Al 396.153Radial†	26072.5	26666.3	4922.0 µg/L	4922.0 ppb	00:19:11
2	Ca 317.933Radial†	85527.1	86707.1	4829.9 µg/L	4829.9 ppb	00:19:11
2	Fe 238.204 Radial†	76547.8	77957.5	4804.8 µg/L	4804.8 ppb	00:19:11
2	K 766.490 Radial†	14325.9	13072.7	4782.1 µg/L	4782.1 ppb	00:19:11
2	Mg 279.077 IEC†	13110.0	13186.1	4920.4 µg/L	4920.4 ppb	00:19:11
2	Na 589.592 Radial†	70292.2	70432.0	9617.6 µg/L	9617.6 ppb	00:19:11
2	Sr 421.552†	230289.2	235111.2	488.74 µg/L	488.74 ppb	00:19:08
2	Sc 361.383	1739470.1	1739470.1	101.24 %		00:19:42
2	Y 371.029	1026926.3	1026926.3	100.02 %		00:19:42
2	Ag 328.068†	133611.7	127887.8	479.55 µg/L	479.55 ppb	00:19:42
2	As 188.979†	1611.8	1612.5	494.58 µg/L	494.58 ppb	00:20:03
2	B 249.677†	36044.8	32098.6	471.73 µg/L	471.73 ppb	00:19:42
2	Ba 233.527†	120143.8	118811.8	479.16 µg/L	479.16 ppb	00:19:42
2	Be 313.107†	1795420.8	1774549.5	483.31 µg/L	483.31 ppb	00:19:42
2	Cd 226.502†	77193.5	76368.5	476.73 µg/L	476.73 ppb	00:19:42
2	Co 228.616†	39216.7	38927.8	480.56 µg/L	480.56 ppb	00:19:42
2	Cr 267.716†	61736.3	60803.5	476.08 µg/L	476.08 ppb	00:19:42
2	Cu 324.752†	127273.9	122746.7	478.50 µg/L	478.50 ppb	00:19:42
2	Mn 257.610†	394321.6	389266.6	481.43 µg/L	481.43 ppb	00:19:42
2	Mo 202.031†	16252.9	16074.4	472.85 µg/L	472.85 ppb	00:20:03
2	Ni 231.604†	41949.4	41513.4	478.00 µg/L	478.00 ppb	00:19:42
2	P 214.914†	11147.1	11028.9	2350.7 µg/L	2350.7 ppb	00:20:03
2	Pb 220.353†	8700.2	8507.6	476.42 µg/L	476.42 ppb	00:20:03

2	S 181.975 Axial†	1373.5	1251.6	933.42 µg/L	933.42 ppb	00:20:03
2	Sb 206.836†	4110.6	3979.5	474.09 µg/L	474.09 ppb	00:20:03
2	Se 196.026†	1335.2	1303.6	473 µg/L	473 ppb	00:20:03
2	SiO2†	55200.8	52751.0	5135.7 µg/L	5135.7 ppb	00:19:42
2	Si 251.611†	166801.0	163926.5	2407.3 µg/L	2407.3 ppb	00:19:42
2	Sn 189.927†	7667.4	7574.8	473.83 µg/L	473.83 ppb	00:20:03
2	Ti 334.940†	521126.8	513807.3	479.42 µg/L	479.42 ppb	00:19:42
2	Tl 190.801†	3808.6	3878.7	483.77 µg/L	483.77 ppb	00:20:03
2	U 409.014†	7502.8	7681.0	478.15 µg/L	478.15 ppb	00:19:42
2	V 292.402†	99014.7	97401.2	481.44 µg/L	481.44 ppb	00:19:42
2	Zn 213.857†	86840.8	85215.4	474.94 µg/L	474.94 ppb	00:19:42
3	Sc RADIAL	143471.6	143471.6	98.3 %		00:19:15
3	Al 396.153Radial†	26187.7	26699.6	4927.9 µg/L	4927.9 ppb	00:19:15
3	Ca 317.933Radial†	86128.1	87043.2	4848.6 µg/L	4848.6 ppb	00:19:15
3	Fe 238.204 Radial†	76980.1	78150.9	4816.7 µg/L	4816.7 ppb	00:19:15
3	K 766.490 Radial†	14484.8	13188.2	4824.4 µg/L	4824.4 ppb	00:19:15
3	Mg 279.077 IEC†	13105.7	13139.6	4903.2 µg/L	4903.2 ppb	00:19:15
3	Na 589.592 Radial†	70971.5	70896.7	9681.1 µg/L	9681.1 ppb	00:19:15
3	Sr 421.552†	228010.1	232051.9	482.38 µg/L	482.38 ppb	00:19:13
3	Sc 361.383	1723745.5	1723745.5	100.32 %		00:20:06
3	Y 371.029	1018567.1	1018567.1	99.209 %		00:20:06
3	Ag 328.068†	132594.6	128078.0	480.26 µg/L	480.26 ppb	00:20:06
3	As 188.979†	1613.1	1628.3	499.38 µg/L	499.38 ppb	00:20:26
3	B 249.677†	35759.3	32138.8	472.33 µg/L	472.33 ppb	00:20:06
3	Ba 233.527†	118916.1	118670.6	478.60 µg/L	478.60 ppb	00:20:06
3	Be 313.107†	1776332.6	1771700.7	482.54 µg/L	482.54 ppb	00:20:06
3	Cd 226.502†	76456.3	76329.3	476.48 µg/L	476.48 ppb	00:20:06
3	Co 228.616†	38757.5	38823.5	479.27 µg/L	479.27 ppb	00:20:06
3	Cr 267.716†	61060.8	60686.4	475.16 µg/L	475.16 ppb	00:20:06
3	Cu 324.752†	125991.6	122615.4	477.99 µg/L	477.99 ppb	00:20:06
3	Mn 257.610†	390315.2	388826.2	480.89 µg/L	480.89 ppb	00:20:06
3	Mo 202.031†	16307.2	16275.0	478.74 µg/L	478.74 ppb	00:20:26
3	Ni 231.604†	41420.9	41364.6	476.28 µg/L	476.28 ppb	00:20:06
3	P 214.914†	11239.1	11221.0	2391.8 µg/L	2391.8 ppb	00:20:26
3	Pb 220.353†	8736.0	8621.6	482.80 µg/L	482.80 ppb	00:20:26
3	S 181.975 Axial†	1373.7	1264.3	942.85 µg/L	942.85 ppb	00:20:26
3	Sb 206.836†	4128.8	4034.7	480.77 µg/L	480.77 ppb	00:20:26
3	Se 196.026†	1340.4	1320.9	480 µg/L	480 ppb	00:20:26
3	SiO2†	54541.9	52591.7	5119.8 µg/L	5119.8 ppb	00:20:06
3	Si 251.611†	164960.5	163595.0	2402.3 µg/L	2402.3 ppb	00:20:06
3	Sn 189.927†	7724.8	7701.2	481.70 µg/L	481.70 ppb	00:20:26
3	Ti 334.940†	516519.7	513910.8	479.51 µg/L	479.51 ppb	00:20:06
3	Tl 190.801†	3789.6	3894.1	485.67 µg/L	485.67 ppb	00:20:26
3	U 409.014†	7419.9	7666.0	477.31 µg/L	477.31 ppb	00:20:06
3	V 292.402†	98262.8	97543.9	482.19 µg/L	482.19 ppb	00:20:06
3	Zn 213.857†	86081.7	85241.2	475.10 µg/L	475.10 ppb	00:20:06

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1731961.8	100.80 %	0.459			0.46%
Sc RADIAL	143394.7	98.3 %	0.24			0.24%
Y 371.029	1023017.1	99.642 %	0.4096			0.41%
Ag 328.068†	127974.1	479.86 µg/L	0.363	479.86 ppb	0.363	0.08%
QC value within limits for Ag 328.068 Recovery = 95.97%						
Al 396.153Radial†	26709.1	4929.8 µg/L	8.93	4929.8 ppb	8.93	0.18%
QC value within limits for Al 396.153Radial Recovery = 98.60%						
As 188.979†	1616.6	495.84 µg/L	3.115	495.84 ppb	3.115	0.63%
QC value within limits for As 188.979 Recovery = 99.17%						
B 249.677†	32064.8	471.24 µg/L	1.407	471.24 ppb	1.407	0.30%
QC value within limits for B 249.677 Recovery = 94.25%						
Ba 233.527†	118725.8	478.82 µg/L	0.303	478.82 ppb	0.303	0.06%
QC value within limits for Ba 233.527 Recovery = 95.76%						
Be 313.107†	1772787.2	482.83 µg/L	0.420	482.83 ppb	0.420	0.09%
QC value within limits for Be 313.107 Recovery = 96.57%						
Ca 317.933Radial†	86918.5	4841.7 µg/L	10.25	4841.7 ppb	10.25	0.21%
QC value within limits for Ca 317.933Radial Recovery = 96.83%						
Cd 226.502†	76335.3	476.52 µg/L	0.194	476.52 ppb	0.194	0.04%
QC value within limits for Cd 226.502 Recovery = 95.30%						
Co 228.616†	38857.0	479.69 µg/L	0.758	479.69 ppb	0.758	0.16%

QC value within limits for Co 228.616 Recovery = 95.94%							
Cr 267.716†	60745.8	475.63 µg/L	0.458	475.63 ppb	0.458	0.10%	
QC value within limits for Cr 267.716 Recovery = 95.13%							
Cu 324.752†	122628.7	478.04 µg/L	0.438	478.04 ppb	0.438	0.09%	
QC value within limits for Cu 324.752 Recovery = 95.61%							
Fe 238.204 Radial†	78162.3	4817.4 µg/L	12.99	4817.4 ppb	12.99	0.27%	
QC value within limits for Fe 238.204 Radial Recovery = 96.35%							
K 766.490 Radial†	13195.4	4827.1 µg/L	46.33	4827.1 ppb	46.33	0.96%	
QC value within limits for K 766.490 Radial Recovery = 96.54%							
Mg 279.077 IEC†	13205.4	4927.6 µg/L	28.77	4927.6 ppb	28.77	0.58%	
QC value within limits for Mg 279.077 IEC Recovery = 98.55%							
Mn 257.610†	389063.8	481.18 µg/L	0.275	481.18 ppb	0.275	0.06%	
QC value within limits for Mn 257.610 Recovery = 96.24%							
Mo 202.031†	16164.1	475.48 µg/L	2.996	475.48 ppb	2.996	0.63%	
QC value within limits for Mo 202.031 Recovery = 95.10%							
Na 589.592 Radial†	70679.5	9651.4 µg/L	31.92	9651.4 ppb	31.92	0.33%	
QC value within limits for Na 589.592 Radial Recovery = 96.51%							
Ni 231.604†	41435.3	477.10 µg/L	0.860	477.10 ppb	0.860	0.18%	
QC value within limits for Ni 231.604 Recovery = 95.42%							
P 214.914†	11110.0	2368.0 µg/L	21.28	2368.0 ppb	21.28	0.90%	
QC value within limits for P 214.914 Recovery = 94.72%							
Pb 220.353†	8564.4	479.60 µg/L	3.191	479.60 ppb	3.191	0.67%	
QC value within limits for Pb 220.353 Recovery = 95.92%							
S 181.975 Axial†	1256.8	937.31 µg/L	4.928	937.31 ppb	4.928	0.53%	
QC value within limits for S 181.975 Axial Recovery = 93.73%							
Sb 206.836†	4002.4	476.86 µg/L	3.479	476.86 ppb	3.479	0.73%	
QC value within limits for Sb 206.836 Recovery = 95.37%							
Se 196.026†	1309.1	475 µg/L	3.7	475 ppb	3.7	0.78%	
QC value within limits for Se 196.026 Recovery = 95.07%							
SiO2†	52667.2	5127.4 µg/L	7.96	5127.4 ppb	7.96	0.16%	
QC value within limits for SiO2 Recovery = 95.88%							
Si 251.611†	163751.0	2404.7 µg/L	2.52	2404.7 ppb	2.52	0.10%	
QC value within limits for Si 251.611 Recovery = 96.19%							
Sn 189.927†	7630.3	477.28 µg/L	4.026	477.28 ppb	4.026	0.84%	
QC value within limits for Sn 189.927 Recovery = 95.46%							
Sr 421.552†	234526.6	487.53 µg/L	4.658	487.53 ppb	4.658	0.96%	
QC value within limits for Sr 421.552 Recovery = 97.51%							
Ti 334.940†	513709.0	479.33 µg/L	0.247	479.33 ppb	0.247	0.05%	
QC value within limits for Ti 334.940 Recovery = 95.87%							
Tl 190.801†	3878.2	483.70 µg/L	1.997	483.70 ppb	1.997	0.41%	
QC value within limits for Tl 190.801 Recovery = 96.74%							
U 409.014†	7596.9	473.23 µg/L	7.805	473.23 ppb	7.805	1.65%	
QC value within limits for U 409.014 Recovery = 94.65%							
V 292.402†	97402.5	481.47 µg/L	0.711	481.47 ppb	0.711	0.15%	
QC value within limits for V 292.402 Recovery = 96.29%							
Zn 213.857†	85102.2	474.31 µg/L	1.230	474.31 ppb	1.230	0.26%	
QC value within limits for Zn 213.857 Recovery = 94.86%							
All analyte(s) passed QC.							



Sequence No.: 136  
 Sample ID: CCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 8  
 Date Collected: 4/1/2010 0:20:34  
 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	143009.9	143009.9	98.0 %		00:21:03
1	Al 396.153Radial†	-51.4	10.8	1.9902 µg/L	1.9902 ppb	00:21:23
1	Ca 317.933Radial†	642.8	95.4	5.3133 µg/L	5.3133 ppb	00:21:23
1	Fe 238.204 Radial†	242.1	99.0	6.0996 µg/L	6.0996 ppb	00:21:23
1	K 766.490 Radial†	1742.8	233.6	85.512 µg/L	85.512 ppb	00:21:03
1	Mg 279.077 IEC†	198.4	11.8	4.3899 µg/L	4.3899 ppb	00:21:23
1	Na 589.592 Radial†	1320.5	56.6	7.6578 µg/L	7.6578 ppb	00:21:03
1	Sr 421.552†	-179.2	-47.6	-0.0989 µg/L	-0.0989 ppb	00:21:03
1	Sc 361.383	1732574.4	1732574.4	100.84 %		00:22:11
1	Y 371.029	1034944.7	1034944.7	100.80 %		00:22:11
1	Ag 328.068†	3967.9	-156.4	-0.6012 µg/L	-0.6012 ppb	00:22:13
1	As 188.979†	-22.3	-1.8	-0.5282 µg/L	-0.5282 ppb	00:22:33
1	B 249.677†	3471.6	-63.1	-0.9312 µg/L	-0.9312 ppb	00:22:13
1	Ba 233.527†	-105.4	31.3	0.1257 µg/L	0.1257 ppb	00:22:33
1	Be 313.107†	-924.2	148.2	0.0371 µg/L	0.0371 ppb	00:22:13
1	Cd 226.502†	-101.6	17.5	0.1086 µg/L	0.1086 ppb	00:22:33
1	Co 228.616†	-161.2	30.5	0.3758 µg/L	0.3758 ppb	00:22:33
1	Cr 267.716†	181.5	1.4	0.0194 µg/L	0.0194 ppb	00:22:33
1	Cu 324.752†	2984.5	-12.4	-0.0561 µg/L	-0.0561 ppb	00:22:13
1	Mn 257.610†	353.9	113.7	0.1405 µg/L	0.1405 ppb	00:22:33
1	Mo 202.031†	-15.2	5.0	0.1471 µg/L	0.1471 ppb	00:22:33
1	Ni 231.604†	-82.1	-4.9	-0.0564 µg/L	-0.0564 ppb	00:22:33
1	P 214.914†	-21.6	-3.4	-0.7405 µg/L	-0.7405 ppb	00:22:33
1	Pb 220.353†	58.7	-28.2	-1.5645 µg/L	-1.5645 ppb	00:22:33
1	S 181.975 Axial†	95.1	-10.7	-7.9545 µg/L	-7.9545 ppb	00:22:33
1	Sb 206.836†	91.5	9.9	1.1817 µg/L	1.1817 ppb	00:22:33
1	Se 196.026†	8.6	-6.7	-2.43 µg/L	-2.43 ppb	00:22:33
1	SiO2†	1790.8	0.6	0.0484 µg/L	0.0484 ppb	00:22:13
1	Si 251.611†	1020.2	175.2	2.5808 µg/L	2.5808 ppb	00:22:13
1	Sn 189.927†	0.3	1.4	0.0914 µg/L	0.0914 ppb	00:22:33
1	Ti 334.940†	1320.8	357.3	0.3381 µg/L	0.3381 ppb	00:22:13
1	Tl 190.801†	-122.8	-5.1	-0.6310 µg/L	-0.6310 ppb	00:22:33
1	U 409.014†	-460.1	-186.4	-10.938 µg/L	-10.938 ppb	00:22:13
1	V 292.402†	259.1	-146.8	-0.7228 µg/L	-0.7228 ppb	00:22:13
1	Zn 213.857†	639.8	70.1	0.3935 µg/L	0.3935 ppb	00:22:33
2	Sc RADIAL	145208.1	145208.1	99.5 %		00:21:25
2	Al 396.153Radial†	-65.6	-2.7	-0.5302 µg/L	-0.5302 ppb	00:21:45
2	Ca 317.933Radial†	617.9	60.4	3.3625 µg/L	3.3625 ppb	00:21:45
2	Fe 238.204 Radial†	235.5	88.5	5.4567 µg/L	5.4567 ppb	00:21:45
2	K 766.490 Radial†	1643.3	106.7	39.066 µg/L	39.066 ppb	00:21:25
2	Mg 279.077 IEC†	181.7	-8.1	-2.9996 µg/L	-2.9996 ppb	00:21:45
2	Na 589.592 Radial†	1254.4	-30.2	-4.1540 µg/L	-4.1540 ppb	00:21:25
2	Sr 421.552†	-222.0	-87.8	-0.1826 µg/L	-0.1826 ppb	00:21:25
2	Sc 361.383	1746141.6	1746141.6	101.63 %		00:22:35
2	Y 371.029	1043093.8	1043093.8	101.60 %		00:22:35
2	Ag 328.068†	4083.1	-73.6	-0.2839 µg/L	-0.2839 ppb	00:22:37
2	As 188.979†	-16.6	4.0	1.2226 µg/L	1.2226 ppb	00:22:58
2	B 249.677†	3623.9	60.1	0.8842 µg/L	0.8842 ppb	00:22:37
2	Ba 233.527†	-136.2	1.9	0.0073 µg/L	0.0073 ppb	00:22:58
2	Be 313.107†	-917.5	161.8	0.0425 µg/L	0.0425 ppb	00:22:37
2	Cd 226.502†	-112.9	7.1	0.0435 µg/L	0.0435 ppb	00:22:58
2	Co 228.616†	-155.9	36.9	0.4553 µg/L	0.4553 ppb	00:22:58
2	Cr 267.716†	191.2	9.5	0.0788 µg/L	0.0788 ppb	00:22:58
2	Cu 324.752†	3030.9	10.2	0.0363 µg/L	0.0363 ppb	00:22:37
2	Mn 257.610†	340.6	97.9	0.1212 µg/L	0.1212 ppb	00:22:58
2	Mo 202.031†	-3.6	16.6	0.4868 µg/L	0.4868 ppb	00:22:58
2	Ni 231.604†	-126.7	-48.2	-0.5549 µg/L	-0.5549 ppb	00:22:58
2	P 214.914†	-18.2	0.0	-0.0021 µg/L	-0.0021 ppb	00:22:58
2	Pb 220.353†	80.1	-7.6	-0.4191 µg/L	-0.4191 ppb	00:22:58

2	S 181.975 Axial†	92.6	-14.0	-10.355 µg/L	-10.355 ppb	00:22:58
2	Sb 206.836†	74.8	-7.3	-0.8573 µg/L	-0.8573 ppb	00:22:58
2	Se 196.026†	29.6	13.8	5.00 µg/L	5.00 ppb	00:22:58
2	SiO2†	1807.1	2.8	0.2551 µg/L	0.2551 ppb	00:22:37
2	Si 251.611†	912.7	61.5	0.8976 µg/L	0.8976 ppb	00:22:37
2	Sn 189.927†	5.4	6.4	0.3994 µg/L	0.3994 ppb	00:22:58
2	Ti 334.940†	911.5	-55.7	-0.0496 µg/L	-0.0496 ppb	00:22:37
2	Tl 190.801†	-107.6	10.8	1.3219 µg/L	1.3219 ppb	00:22:58
2	U 409.014†	-364.0	-88.2	-5.1839 µg/L	-5.1839 ppb	00:22:37
2	V 292.402†	324.6	-84.4	-0.4104 µg/L	-0.4104 ppb	00:22:37
2	Zn 213.857†	602.5	28.4	0.1627 µg/L	0.1627 ppb	00:22:58
3	Sc RADIAL	142939.6	142939.6	98.0 %		00:21:47
3	Al 396.153Radial†	-66.5	-4.7	-0.8930 µg/L	-0.8930 ppb	00:22:07
3	Ca 317.933Radial†	598.8	50.7	2.8256 µg/L	2.8256 ppb	00:22:07
3	Fe 238.204 Radial†	216.5	73.0	4.4964 µg/L	4.4964 ppb	00:22:07
3	K 766.490 Radial†	1593.8	82.4	30.155 µg/L	30.155 ppb	00:21:47
3	Mg 279.077 IEC†	176.4	-10.6	-3.9486 µg/L	-3.9486 ppb	00:22:07
3	Na 589.592 Radial†	1336.7	73.9	10.067 µg/L	10.067 ppb	00:21:47
3	Sr 421.552†	-79.1	54.6	0.1134 µg/L	0.1134 ppb	00:21:47
3	Sc 361.383	1720285.6	1720285.6	100.12 %		00:23:00
3	Y 371.029	1027937.7	1027937.7	100.12 %		00:23:00
3	Ag 328.068†	3952.7	-143.5	-0.5516 µg/L	-0.5516 ppb	00:23:02
3	As 188.979†	-14.9	5.5	1.6581 µg/L	1.6581 ppb	00:23:22
3	B 249.677†	3577.4	67.2	0.9901 µg/L	0.9901 ppb	00:23:02
3	Ba 233.527†	-138.9	-2.8	-0.0116 µg/L	-0.0116 ppb	00:23:22
3	Be 313.107†	-853.9	211.9	0.0539 µg/L	0.0539 ppb	00:23:02
3	Cd 226.502†	-97.9	20.4	0.1268 µg/L	0.1268 ppb	00:23:22
3	Co 228.616†	-169.6	20.9	0.2575 µg/L	0.2575 ppb	00:23:22
3	Cr 267.716†	194.2	15.4	0.1307 µg/L	0.1307 ppb	00:23:22
3	Cu 324.752†	2897.3	-78.4	-0.3143 µg/L	-0.3143 ppb	00:23:02
3	Mn 257.610†	316.9	79.2	0.0982 µg/L	0.0982 ppb	00:23:22
3	Mo 202.031†	-2.4	17.7	0.5206 µg/L	0.5206 ppb	00:23:22
3	Ni 231.604†	-79.7	-3.1	-0.0357 µg/L	-0.0357 ppb	00:23:22
3	P 214.914†	-14.8	3.1	0.6703 µg/L	0.6703 ppb	00:23:22
3	Pb 220.353†	65.3	-21.2	-1.1703 µg/L	-1.1703 ppb	00:23:22
3	S 181.975 Axial†	96.4	-8.8	-6.5340 µg/L	-6.5340 ppb	00:23:22
3	Sb 206.836†	95.7	14.7	1.7585 µg/L	1.7585 ppb	00:23:22
3	Se 196.026†	27.8	12.5	4.51 µg/L	4.51 ppb	00:23:22
3	SiO2†	1722.4	-55.0	-5.4009 µg/L	-5.4009 ppb	00:23:02
3	Si 251.611†	906.7	69.0	1.0061 µg/L	1.0061 ppb	00:23:02
3	Sn 189.927†	9.3	10.4	0.6455 µg/L	0.6455 ppb	00:23:22
3	Ti 334.940†	750.5	-203.0	-0.1841 µg/L	-0.1841 ppb	00:23:02
3	Tl 190.801†	-113.2	3.6	0.4390 µg/L	0.4390 ppb	00:23:22
3	U 409.014†	-484.4	-213.9	-12.531 µg/L	-12.531 ppb	00:23:02
3	V 292.402†	320.4	-83.8	-0.4117 µg/L	-0.4117 ppb	00:23:02
3	Zn 213.857†	604.4	39.2	0.2202 µg/L	0.2202 ppb	00:23:22

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1733000.6	100.86 %	0.753			0.75%
Sc RADIAL	143719.2	98.5 %	0.88			0.90%
Y 371.029	1035325.4	100.84 %	0.739			0.73%
Ag 328.068†	-124.5	-0.4789 µg/L	0.17068	-0.4789 ppb	0.17068	35.64%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	1.1	0.1890 µg/L	1.57038	0.1890 ppb	1.57038	830.86%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.6	0.7841 µg/L	1.15723	0.7841 ppb	1.15723	147.58%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	21.4	0.3144 µg/L	1.08004	0.3144 ppb	1.08004	343.55%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	10.1	0.0405 µg/L	0.07440	0.0405 ppb	0.07440	183.92%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	174.0	0.0445 µg/L	0.00860	0.0445 ppb	0.00860	19.32%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	68.8	3.8338 µg/L	1.30912	3.8338 ppb	1.30912	34.15%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	15.0	0.0930 µg/L	0.04379	0.0930 ppb	0.04379	47.11%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	29.4	0.3629 µg/L	0.09956	0.3629 ppb	0.09956	27.44%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated				
	8.8	0.0763 µg/L	0.05570	0.0763 ppb	0.05570	73.02%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated				
	-26.9	-0.1114 µg/L	0.18174	-0.1114 ppb	0.18174	163.21%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated				
	86.8	5.3509 µg/L	0.80679	5.3509 ppb	0.80679	15.08%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated				
	140.9	51.578 µg/L	29.7235	51.578 ppb	29.7235	57.63%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated				
	-2.3	-0.8527 µg/L	4.56498	-0.8527 ppb	4.56498	535.33%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated				
	96.9	0.1200 µg/L	0.02117	0.1200 ppb	0.02117	17.65%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated				
	13.1	0.3848 µg/L	0.20656	0.3848 ppb	0.20656	53.68%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated				
	33.4	4.5235 µg/L	7.61088	4.5235 ppb	7.61088	168.25%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated				
	-18.7	-0.2157 µg/L	0.29398	-0.2157 ppb	0.29398	136.32%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated				
	-0.1	-0.0241 µg/L	0.70567	-0.0241 ppb	0.70567	>999.9%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated				
	-19.0	-1.0513 µg/L	0.58190	-1.0513 ppb	0.58190	55.35%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated				
	-11.2	-8.2812 µg/L	1.93130	-8.2812 ppb	1.93130	23.32%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated				
	5.8	0.6943 µg/L	1.37431	0.6943 ppb	1.37431	197.94%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated				
	6.5	2.36 µg/L	4.154	2.36 ppb	4.154	176.05%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated				
	-17.2	-1.6992 µg/L	3.20748	-1.6992 ppb	3.20748	188.77%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated				
	101.9	1.4948 µg/L	0.94203	1.4948 ppb	0.94203	63.02%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated				
	6.1	0.3788 µg/L	0.27765	0.3788 ppb	0.27765	73.30%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated				
	-26.9	-0.0560 µg/L	0.15260	-0.0560 ppb	0.15260	272.31%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated				
	32.9	0.0348 µg/L	0.27113	0.0348 ppb	0.27113	779.57%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated				
	3.1	0.3767 µg/L	0.97795	0.3767 ppb	0.97795	259.64%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated				
	-162.8	-9.5509 µg/L	3.86489	-9.5509 ppb	3.86489	40.47%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated				
	-105.0	-0.5150 µg/L	0.18000	-0.5150 ppb	0.18000	34.95%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated				
	45.9	0.2588 µg/L	0.12016	0.2588 ppb	0.12016	46.42%
	QC value within limits for Zn 213.857 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 147  
 Sample ID: CCV  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 7  
 Date Collected: 4/1/2010 0:42:50  
 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	145422.4	145422.4	99.7 %		00:43:24
1	Al 396.153Radial†	26455.2	26610.7	4911.5 µg/L	4911.5 ppb	00:43:24
1	Ca 317.933Radial†	86831.3	86573.7	4822.5 µg/L	4822.5 ppb	00:43:24
1	Fe 238.204 Radial†	77746.7	77869.8	4799.4 µg/L	4799.4 ppb	00:43:24
1	K 766.490 Radial†	15151.4	13659.4	4997.0 µg/L	4997.0 ppb	00:43:24
1	Mg 279.077 IEC†	13235.9	13091.4	4885.2 µg/L	4885.2 ppb	00:43:24
1	Na 589.592 Radial†	71616.2	70575.3	9637.0 µg/L	9637.0 ppb	00:43:24
1	Sr 421.552†	232582.8	233529.5	485.46 µg/L	485.46 ppb	00:43:22
1	Sc 361.383	1743598.2	1743598.2	101.48 %		00:43:51
1	Y 371.029	1031066.0	1031066.0	100.43 %		00:43:51
1	Ag 328.068†	133467.0	127432.8	477.84 µg/L	477.84 ppb	00:43:51
1	As 188.979†	1622.1	1618.8	496.49 µg/L	496.49 ppb	00:44:11
1	B 249.677†	35840.6	31813.0	467.53 µg/L	467.53 ppb	00:43:51
1	Ba 233.527†	120186.4	118572.7	478.20 µg/L	478.20 ppb	00:43:51
1	Be 313.107†	1790824.1	1765820.8	480.94 µg/L	480.94 ppb	00:43:51
1	Cd 226.502†	76550.4	75554.3	471.64 µg/L	471.64 ppb	00:43:51
1	Co 228.616†	38943.5	38566.9	476.11 µg/L	476.11 ppb	00:43:51
1	Cr 267.716†	61701.1	60624.4	474.67 µg/L	474.67 ppb	00:43:51
1	Cu 324.752†	126928.7	122108.9	476.02 µg/L	476.02 ppb	00:43:51
1	Mn 257.610†	393495.6	387530.4	479.28 µg/L	479.28 ppb	00:43:51
1	Mo 202.031†	16401.2	16182.5	476.02 µg/L	476.02 ppb	00:44:11
1	Ni 231.604†	41723.3	41192.5	474.30 µg/L	474.30 ppb	00:43:51
1	P 214.914†	11221.8	11076.4	2360.8 µg/L	2360.8 ppb	00:44:11
1	Pb 220.353†	8738.0	8524.4	477.36 µg/L	477.36 ppb	00:44:11
1	S 181.975 Axial†	1370.2	1245.2	928.69 µg/L	928.69 ppb	00:44:11
1	Sb 206.836†	4135.6	3994.6	475.95 µg/L	475.95 ppb	00:44:11
1	Se 196.026†	1352.3	1317.3	478 µg/L	478 ppb	00:44:11
1	SiO2†	55049.3	52472.6	5108.4 µg/L	5108.4 ppb	00:43:51
1	Si 251.611†	166176.8	162921.3	2392.5 µg/L	2392.5 ppb	00:43:51
1	Sn 189.927†	7712.3	7601.2	475.47 µg/L	475.47 ppb	00:44:11
1	Ti 334.940†	521331.2	512790.0	478.47 µg/L	478.47 ppb	00:43:51
1	Tl 190.801†	3813.4	3874.6	483.26 µg/L	483.26 ppb	00:44:11
1	U 409.014†	7540.1	7700.2	479.18 µg/L	479.18 ppb	00:43:51
1	V 292.402†	98936.9	97093.0	479.96 µg/L	479.96 ppb	00:43:51
1	Zn 213.857†	85977.6	84161.6	469.05 µg/L	469.05 ppb	00:43:51
2	Sc RADIAL	145725.8	145725.8	99.9 %		00:43:28
2	Al 396.153Radial†	26577.9	26678.3	4924.3 µg/L	4924.3 ppb	00:43:28
2	Ca 317.933Radial†	86949.3	86510.4	4819.0 µg/L	4819.0 ppb	00:43:28
2	Fe 238.204 Radial†	77908.9	77869.8	4799.4 µg/L	4799.4 ppb	00:43:28
2	K 766.490 Radial†	15116.5	13592.9	4972.6 µg/L	4972.6 ppb	00:43:28
2	Mg 279.077 IEC†	13204.2	13032.0	4862.9 µg/L	4862.9 ppb	00:43:28
2	Na 589.592 Radial†	71600.4	70409.8	9614.4 µg/L	9614.4 ppb	00:43:28
2	Sr 421.552†	232081.7	232541.8	483.40 µg/L	483.40 ppb	00:43:26
2	Sc 361.383	1761627.7	1761627.7	102.53 %		00:44:14
2	Y 371.029	1041782.4	1041782.4	101.47 %		00:44:14
2	Ag 328.068†	135437.6	128008.7	479.98 µg/L	479.98 ppb	00:44:14
2	As 188.979†	1618.9	1599.4	490.58 µg/L	490.58 ppb	00:44:34
2	B 249.677†	36451.8	32047.6	470.98 µg/L	470.98 ppb	00:44:14
2	Ba 233.527†	121402.3	118546.6	478.09 µg/L	478.09 ppb	00:44:14
2	Be 313.107†	1815831.0	1772149.9	482.66 µg/L	482.66 ppb	00:44:14
2	Cd 226.502†	77854.0	76053.7	474.76 µg/L	474.76 ppb	00:44:14
2	Co 228.616†	39625.6	38839.4	479.47 µg/L	479.47 ppb	00:44:14
2	Cr 267.716†	62161.5	60451.1	473.32 µg/L	473.32 ppb	00:44:14
2	Cu 324.752†	128573.2	122432.6	477.28 µg/L	477.28 ppb	00:44:14
2	Mn 257.610†	398371.0	388317.0	480.26 µg/L	480.26 ppb	00:44:14
2	Mo 202.031†	16410.2	16025.9	471.42 µg/L	471.42 ppb	00:44:34
2	Ni 231.604†	42364.7	41397.3	476.66 µg/L	476.66 ppb	00:44:14
2	P 214.914†	11239.3	10980.3	2340.3 µg/L	2340.3 ppb	00:44:34
2	Pb 220.353†	8812.8	8509.3	476.51 µg/L	476.51 ppb	00:44:34

2	S 181.975 Axial†	1368.5	1229.8	917.16 µg/L	917.16 ppb	00:44:34
2	Sb 206.836†	4132.0	3949.3	470.52 µg/L	470.52 ppb	00:44:34
2	Se 196.026†	1324.7	1276.8	464 µg/L	464 ppb	00:44:34
2	SiO2†	55692.7	52545.0	5115.6 µg/L	5115.6 ppb	00:44:14
2	Si 251.611†	168404.8	163418.4	2399.9 µg/L	2399.9 ppb	00:44:14
2	Sn 189.927†	7723.1	7533.9	471.28 µg/L	471.28 ppb	00:44:34
2	Ti 334.940†	526897.4	512961.1	478.63 µg/L	478.63 ppb	00:44:14
2	Tl 190.801†	3822.8	3845.3	479.65 µg/L	479.65 ppb	00:44:34
2	U 409.014†	7487.3	7572.7	471.77 µg/L	471.77 ppb	00:44:14
2	V 292.402†	100123.8	97252.7	480.69 µg/L	480.69 ppb	00:44:14
2	Zn 213.857†	87731.8	85005.5	473.77 µg/L	473.77 ppb	00:44:14
3	Sc RADIAL	145384.0	145384.0	99.6 %		00:43:32
3	Al 396.153Radial†	26816.5	26980.4	4980.1 µg/L	4980.1 ppb	00:43:32
3	Ca 317.933Radial†	87178.4	86945.1	4843.2 µg/L	4843.2 ppb	00:43:32
3	Fe 238.204 Radial†	78269.7	78415.4	4833.0 µg/L	4833.0 ppb	00:43:32
3	K 766.490 Radial†	15108.8	13620.7	4982.8 µg/L	4982.8 ppb	00:43:32
3	Mg 279.077 IEC†	13407.1	13266.7	4950.4 µg/L	4950.4 ppb	00:43:32
3	Na 589.592 Radial†	71569.6	70547.5	9633.2 µg/L	9633.2 ppb	00:43:32
3	Sr 421.552†	232881.6	233891.1	486.21 µg/L	486.21 ppb	00:43:30
3	Sc 361.383	1742785.1	1742785.1	101.43 %		00:44:37
3	Y 371.029	1031123.9	1031123.9	100.43 %		00:44:37
3	Ag 328.068†	133463.3	127490.6	478.04 µg/L	478.04 ppb	00:44:37
3	As 188.979†	1602.4	1600.2	490.85 µg/L	490.85 ppb	00:44:57
3	B 249.677†	35982.1	31968.9	469.83 µg/L	469.83 ppb	00:44:37
3	Ba 233.527†	120198.2	118639.6	478.47 µg/L	478.47 ppb	00:44:37
3	Be 313.107†	1793841.1	1769618.6	481.97 µg/L	481.97 ppb	00:44:37
3	Cd 226.502†	76743.1	75779.4	473.04 µg/L	473.04 ppb	00:44:37
3	Co 228.616†	39088.6	38727.9	478.09 µg/L	478.09 ppb	00:44:37
3	Cr 267.716†	61579.9	60533.3	473.97 µg/L	473.97 ppb	00:44:37
3	Cu 324.752†	127002.6	122240.1	476.52 µg/L	476.52 ppb	00:44:37
3	Mn 257.610†	393720.4	387932.9	479.78 µg/L	479.78 ppb	00:44:37
3	Mo 202.031†	16368.1	16157.5	475.29 µg/L	475.29 ppb	00:44:57
3	Ni 231.604†	41714.9	41203.3	474.43 µg/L	474.43 ppb	00:44:37
3	P 214.914†	11213.9	11073.8	2360.3 µg/L	2360.3 ppb	00:44:57
3	Pb 220.353†	8765.9	8556.0	479.14 µg/L	479.14 ppb	00:44:57
3	S 181.975 Axial†	1369.3	1244.9	928.45 µg/L	928.45 ppb	00:44:57
3	Sb 206.836†	4132.6	3993.6	475.83 µg/L	475.83 ppb	00:44:57
3	Se 196.026†	1350.4	1316.1	478 µg/L	478 ppb	00:44:57
3	SiO2†	54988.6	52438.1	5105.0 µg/L	5105.0 ppb	00:44:37
3	Si 251.611†	166378.2	163196.2	2396.5 µg/L	2396.5 ppb	00:44:37
3	Sn 189.927†	7736.3	7628.4	477.16 µg/L	477.16 ppb	00:44:57
3	Ti 334.940†	521282.1	512981.2	478.65 µg/L	478.65 ppb	00:44:37
3	Tl 190.801†	3826.1	3888.8	485.00 µg/L	485.00 ppb	00:44:57
3	U 409.014†	7233.1	7401.1	461.69 µg/L	461.69 ppb	00:44:37
3	V 292.402†	98911.9	97113.8	480.04 µg/L	480.04 ppb	00:44:37
3	Zn 213.857†	86546.2	84761.8	472.42 µg/L	472.42 ppb	00:44:37

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1749337.0	101.81 %	0.620			0.61%
Sc RADIAL	145510.7	99.7 %	0.13			0.13%
Y 371.029	1034657.4	100.78 %	0.601			0.60%
Ag 328.068†	127644.0	478.62 µg/L	1.180	478.62 ppb	1.180	0.25%
QC value within limits for Ag 328.068 Recovery = 95.72%						
Al 396.153Radial†	26756.5	4938.6 µg/L	36.47	4938.6 ppb	36.47	0.74%
QC value within limits for Al 396.153Radial Recovery = 98.77%						
As 188.979†	1606.1	492.64 µg/L	3.336	492.64 ppb	3.336	0.68%
QC value within limits for As 188.979 Recovery = 98.53%						
B 249.677†	31943.2	469.45 µg/L	1.755	469.45 ppb	1.755	0.37%
QC value within limits for B 249.677 Recovery = 93.89%						
Ba 233.527†	118586.3	478.25 µg/L	0.193	478.25 ppb	0.193	0.04%
QC value within limits for Ba 233.527 Recovery = 95.65%						
Be 313.107†	1769196.4	481.85 µg/L	0.866	481.85 ppb	0.866	0.18%
QC value within limits for Be 313.107 Recovery = 96.37%						
Ca 317.933Radial†	86676.4	4828.2 µg/L	13.08	4828.2 ppb	13.08	0.27%
QC value within limits for Ca 317.933Radial Recovery = 96.56%						
Cd 226.502†	75795.8	473.15 µg/L	1.563	473.15 ppb	1.563	0.33%
QC value within limits for Cd 226.502 Recovery = 94.63%						
Co 228.616†	38711.4	477.89 µg/L	1.690	477.89 ppb	1.690	0.35%

QC value within limits for Co 228.616 Recovery = 95.58%							
Cr 267.716†	60536.3	473.99 µg/L	0.676	473.99 ppb	0.676	0.14%	
QC value within limits for Cr 267.716 Recovery = 94.80%							
Cu 324.752†	122260.5	476.61 µg/L	0.631	476.61 ppb	0.631	0.13%	
QC value within limits for Cu 324.752 Recovery = 95.32%							
Fe 238.204 Radial†	78051.7	4810.6 µg/L	19.41	4810.6 ppb	19.41	0.40%	
QC value within limits for Fe 238.204 Radial Recovery = 96.21%							
K 766.490 Radial†	13624.4	4984.1 µg/L	12.24	4984.1 ppb	12.24	0.25%	
QC value within limits for K 766.490 Radial Recovery = 99.68%							
Mg 279.077 IEC†	13130.0	4899.5 µg/L	45.49	4899.5 ppb	45.49	0.93%	
QC value within limits for Mg 279.077 IEC Recovery = 97.99%							
Mn 257.610†	387926.8	479.77 µg/L	0.487	479.77 ppb	0.487	0.10%	
QC value within limits for Mn 257.610 Recovery = 95.95%							
Mo 202.031†	16121.9	474.24 µg/L	2.474	474.24 ppb	2.474	0.52%	
QC value within limits for Mo 202.031 Recovery = 94.85%							
Na 589.592 Radial†	70510.9	9628.2 µg/L	12.09	9628.2 ppb	12.09	0.13%	
QC value within limits for Na 589.592 Radial Recovery = 96.28%							
Ni 231.604†	41264.4	475.13 µg/L	1.327	475.13 ppb	1.327	0.28%	
QC value within limits for Ni 231.604 Recovery = 95.03%							
P 214.914†	11043.5	2353.8 µg/L	11.71	2353.8 ppb	11.71	0.50%	
QC value within limits for P 214.914 Recovery = 94.15%							
Pb 220.353†	8529.9	477.67 µg/L	1.340	477.67 ppb	1.340	0.28%	
QC value within limits for Pb 220.353 Recovery = 95.53%							
S 181.975 Axial†	1240.0	924.77 µg/L	6.587	924.77 ppb	6.587	0.71%	
QC value within limits for S 181.975 Axial Recovery = 92.48%							
Sb 206.836†	3979.2	474.10 µg/L	3.102	474.10 ppb	3.102	0.65%	
QC value within limits for Sb 206.836 Recovery = 94.82%							
Se 196.026†	1303.4	473 µg/L	8.3	473 ppb	8.3	1.76%	
QC value within limits for Se 196.026 Recovery = 94.66%							
SiO2†	52485.2	5109.7 µg/L	5.44	5109.7 ppb	5.44	0.11%	
QC value within limits for SiO2 Recovery = 95.55%							
Si 251.611†	163178.7	2396.3 µg/L	3.71	2396.3 ppb	3.71	0.15%	
QC value within limits for Si 251.611 Recovery = 95.85%							
Sn 189.927†	7587.8	474.63 µg/L	3.030	474.63 ppb	3.030	0.64%	
QC value within limits for Sn 189.927 Recovery = 94.93%							
Sr 421.552†	233320.8	485.02 µg/L	1.452	485.02 ppb	1.452	0.30%	
QC value within limits for Sr 421.552 Recovery = 97.00%							
Ti 334.940†	512910.7	478.58 µg/L	0.100	478.58 ppb	0.100	0.02%	
QC value within limits for Ti 334.940 Recovery = 95.72%							
Tl 190.801†	3869.6	482.64 µg/L	2.728	482.64 ppb	2.728	0.57%	
QC value within limits for Tl 190.801 Recovery = 96.53%							
U 409.014†	7558.0	470.88 µg/L	8.779	470.88 ppb	8.779	1.86%	
QC value within limits for U 409.014 Recovery = 94.18%							
V 292.402†	97153.2	480.23 µg/L	0.396	480.23 ppb	0.396	0.08%	
QC value within limits for V 292.402 Recovery = 96.05%							
Zn 213.857†	84643.0	471.74 µg/L	2.432	471.74 ppb	2.432	0.52%	
QC value within limits for Zn 213.857 Recovery = 94.35%							
All analyte(s) passed QC.							

Sequence No.: 148  
 Sample ID: CCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 8  
 Date Collected: 4/1/2010 0:45:05  
 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	145813.7	145813.7	99.9 %		00:45:34
1	Al 396.153Radial†	-21.5	41.7	7.7141 µg/L	7.7141 ppb	00:45:54
1	Ca 317.933Radial†	660.7	100.6	5.6043 µg/L	5.6043 ppb	00:45:54
1	Fe 238.204 Radial†	255.4	107.5	6.6275 µg/L	6.6275 ppb	00:45:54
1	K 766.490 Radial†	1930.6	387.4	141.83 µg/L	141.83 ppb	00:45:34
1	Mg 279.077 IEC†	169.2	-21.4	-7.9590 µg/L	-7.9590 ppb	00:45:54
1	Na 589.592 Radial†	1419.6	130.0	17.627 µg/L	17.627 ppb	00:45:34
1	Sr 421.552†	-123.1	12.1	0.0251 µg/L	0.0251 ppb	00:45:34
1	Sc 361.383	1750408.8	1750408.8	101.87 %		00:46:42
1	Y 371.029	1046340.0	1046340.0	101.91 %		00:46:42
1	Ag 328.068†	4173.7	5.5	0.0313 µg/L	0.0313 ppb	00:46:44
1	As 188.979†	-12.6	8.0	2.4214 µg/L	2.4214 ppb	00:47:04
1	B 249.677†	3555.6	-15.7	-0.2323 µg/L	-0.2323 ppb	00:47:04
1	Ba 233.527†	-101.3	36.4	0.1474 µg/L	0.1474 ppb	00:47:04
1	Be 313.107†	-795.6	283.7	0.0772 µg/L	0.0772 ppb	00:46:44
1	Cd 226.502†	-95.6	24.3	0.1514 µg/L	0.1514 ppb	00:47:04
1	Co 228.616†	-179.6	14.0	0.1728 µg/L	0.1728 ppb	00:47:04
1	Cr 267.716†	177.0	-4.8	-0.0365 µg/L	-0.0365 ppb	00:47:04
1	Cu 324.752†	2909.7	-116.1	-0.4503 µg/L	-0.4503 ppb	00:46:44
1	Mn 257.610†	386.8	142.4	0.1765 µg/L	0.1765 ppb	00:47:04
1	Mo 202.031†	-2.5	17.7	0.5193 µg/L	0.5193 ppb	00:47:04
1	Ni 231.604†	-67.3	10.4	0.1201 µg/L	0.1201 ppb	00:47:04
1	P 214.914†	-26.0	-7.6	-1.6208 µg/L	-1.6208 ppb	00:47:04
1	Pb 220.353†	94.4	6.3	0.3548 µg/L	0.3548 ppb	00:47:04
1	S 181.975 Axial†	101.3	-5.6	-4.1728 µg/L	-4.1728 ppb	00:47:04
1	Sb 206.836†	78.6	-3.7	-0.4248 µg/L	-0.4248 ppb	00:47:04
1	Se 196.026†	14.9	-0.6	-0.221 µg/L	-0.221 ppb	00:47:04
1	SiO2†	1836.9	27.8	2.6939 µg/L	2.6939 ppb	00:47:04
1	Si 251.611†	938.9	85.0	1.2435 µg/L	1.2435 ppb	00:46:44
1	Sn 189.927†	6.9	7.9	0.4933 µg/L	0.4933 ppb	00:47:04
1	Ti 334.940†	1245.9	270.5	0.2536 µg/L	0.2536 ppb	00:46:44
1	Tl 190.801†	-106.7	11.9	1.4748 µg/L	1.4748 ppb	00:47:04
1	U 409.014†	-279.4	-4.3	-0.1987 µg/L	-0.1987 ppb	00:46:44
1	V 292.402†	610.8	195.8	0.9591 µg/L	0.9591 ppb	00:46:44
1	Zn 213.857†	602.2	26.7	0.1490 µg/L	0.1490 ppb	00:47:04
2	Sc RADIAL	145033.3	145033.3	99.4 %		00:45:56
2	Al 396.153Radial†	-65.1	-2.3	-0.4158 µg/L	-0.4158 ppb	00:46:16
2	Ca 317.933Radial†	657.9	101.4	5.6466 µg/L	5.6466 ppb	00:46:16
2	Fe 238.204 Radial†	255.9	109.4	6.7397 µg/L	6.7397 ppb	00:46:16
2	K 766.490 Radial†	1898.9	365.8	133.93 µg/L	133.93 ppb	00:45:56
2	Mg 279.077 IEC†	184.6	-5.0	-1.8665 µg/L	-1.8665 ppb	00:46:16
2	Na 589.592 Radial†	1425.5	143.5	19.480 µg/L	19.480 ppb	00:45:56
2	Sr 421.552†	-181.0	-46.9	-0.0975 µg/L	-0.0975 ppb	00:45:56
2	Sc 361.383	1733689.5	1733689.5	100.90 %		00:47:06
2	Y 371.029	1035932.6	1035932.6	100.90 %		00:47:06
2	Ag 328.068†	4170.2	41.6	0.1255 µg/L	0.1255 ppb	00:47:08
2	As 188.979†	-26.8	-6.2	-1.8781 µg/L	-1.8781 ppb	00:47:28
2	B 249.677†	3534.2	-3.2	-0.0484 µg/L	-0.0484 ppb	00:47:28
2	Ba 233.527†	-142.6	-5.5	-0.0225 µg/L	-0.0225 ppb	00:47:28
2	Be 313.107†	-653.6	416.9	0.1076 µg/L	0.1076 ppb	00:47:08
2	Cd 226.502†	-96.3	22.8	0.1415 µg/L	0.1415 ppb	00:47:28
2	Co 228.616†	-179.3	12.7	0.1558 µg/L	0.1558 ppb	00:47:28
2	Cr 267.716†	198.6	18.3	0.1585 µg/L	0.1585 ppb	00:47:28
2	Cu 324.752†	3088.6	88.8	0.3301 µg/L	0.3301 ppb	00:47:08
2	Mn 257.610†	332.3	92.1	0.1140 µg/L	0.1140 ppb	00:47:28
2	Mo 202.031†	-28.0	-7.7	-0.2262 µg/L	-0.2262 ppb	00:47:28
2	Ni 231.604†	-93.8	-16.5	-0.1899 µg/L	-0.1899 ppb	00:47:28
2	P 214.914†	-21.8	-3.7	-0.7885 µg/L	-0.7885 ppb	00:47:28
2	Pb 220.353†	61.7	-25.2	-1.3944 µg/L	-1.3944 ppb	00:47:28

2	S 181.975 Axial†	90.5	-15.4	-11.437 µg/L	-11.437 ppb	00:47:28
2	Sb 206.836†	79.2	-2.4	-0.2858 µg/L	-0.2858 ppb	00:47:28
2	Se 196.026†	19.9	4.4	1.59 µg/L	1.59 ppb	00:47:28
2	SiO2†	1761.9	-29.2	-2.8510 µg/L	-2.8510 ppb	00:47:28
2	Si 251.611†	952.2	107.2	1.5818 µg/L	1.5818 ppb	00:47:08
2	Sn 189.927†	1.6	2.7	0.1708 µg/L	0.1708 ppb	00:47:28
2	Ti 334.940†	1138.7	176.0	0.1727 µg/L	0.1727 ppb	00:47:08
2	Tl 190.801†	-112.9	4.8	0.5868 µg/L	0.5868 ppb	00:47:28
2	U 409.014†	-610.9	-335.5	-19.639 µg/L	-19.639 ppb	00:47:08
2	V 292.402†	335.6	-71.2	-0.3633 µg/L	-0.3633 ppb	00:47:08
2	Zn 213.857†	609.0	39.1	0.2201 µg/L	0.2201 ppb	00:47:28
3	Sc RADIAL	144640.1	144640.1	99.1 %		00:46:18
3	Al 396.153Radial†	-16.5	46.5	8.6229 µg/L	8.6229 ppb	00:46:38
3	Ca 317.933Radial†	641.2	86.3	4.8083 µg/L	4.8083 ppb	00:46:38
3	Fe 238.204 Radial†	234.4	88.4	5.4482 µg/L	5.4482 ppb	00:46:38
3	K 766.490 Radial†	1840.5	312.1	114.26 µg/L	114.26 ppb	00:46:18
3	Mg 279.077 IEC†	179.1	-10.0	-3.7407 µg/L	-3.7407 ppb	00:46:38
3	Na 589.592 Radial†	1296.3	17.0	2.2230 µg/L	2.2230 ppb	00:46:18
3	Sr 421.552†	-133.6	0.5	0.0010 µg/L	0.0010 ppb	00:46:18
3	Sc 361.383	1767241.8	1767241.8	102.85 %		00:47:31
3	Y 371.029	1055815.3	1055815.3	102.84 %		00:47:31
3	Ag 328.068†	4233.0	24.2	0.0732 µg/L	0.0732 ppb	00:47:33
3	As 188.979†	-18.4	2.5	0.7561 µg/L	0.7561 ppb	00:47:53
3	B 249.677†	3514.8	-88.6	-1.3075 µg/L	-1.3075 ppb	00:47:53
3	Ba 233.527†	-120.1	19.1	0.0763 µg/L	0.0763 ppb	00:47:53
3	Be 313.107†	-970.1	121.5	0.0322 µg/L	0.0322 ppb	00:47:33
3	Cd 226.502†	-78.9	41.4	0.2583 µg/L	0.2583 ppb	00:47:53
3	Co 228.616†	-184.4	11.0	0.1355 µg/L	0.1355 ppb	00:47:53
3	Cr 267.716†	190.1	6.2	0.0509 µg/L	0.0509 ppb	00:47:53
3	Cu 324.752†	2968.8	-85.8	-0.3350 µg/L	-0.3350 ppb	00:47:33
3	Mn 257.610†	335.2	88.6	0.1098 µg/L	0.1098 ppb	00:47:53
3	Mo 202.031†	-18.5	2.1	0.0614 µg/L	0.0614 ppb	00:47:53
3	Ni 231.604†	-69.8	8.6	0.0995 µg/L	0.0995 ppb	00:47:53
3	P 214.914†	-21.0	-2.5	-0.5265 µg/L	-0.5265 ppb	00:47:53
3	Pb 220.353†	70.5	-17.8	-0.9923 µg/L	-0.9923 ppb	00:47:53
3	S 181.975 Axial†	109.4	1.3	0.9740 µg/L	0.9740 ppb	00:47:53
3	Sb 206.836†	82.2	-0.9	-0.1044 µg/L	-0.1044 ppb	00:47:53
3	Se 196.026†	22.8	6.9	2.49 µg/L	2.49 ppb	00:47:53
3	SiO2†	1817.9	-7.9	-0.7787 µg/L	-0.7787 ppb	00:47:53
3	Si 251.611†	954.5	91.5	1.3450 µg/L	1.3450 ppb	00:47:33
3	Sn 189.927†	5.8	6.8	0.4211 µg/L	0.4211 ppb	00:47:53
3	Ti 334.940†	1018.9	38.1	0.0372 µg/L	0.0372 ppb	00:47:33
3	Tl 190.801†	-118.1	1.9	0.2233 µg/L	0.2233 ppb	00:47:53
3	U 409.014†	-329.7	-50.7	-3.0245 µg/L	-3.0245 ppb	00:47:33
3	V 292.402†	193.7	-215.4	-1.0528 µg/L	-1.0528 ppb	00:47:33
3	Zn 213.857†	612.8	31.3	0.1753 µg/L	0.1753 ppb	00:47:53

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1750446.7	101.88 %	0.976			0.96%
Sc RADIAL	145162.4	99.5 %	0.41			0.41%
Y 371.029	1046029.3	101.88 %	0.969			0.95%
Ag 328.068†	23.8	0.0767 µg/L	0.04716	0.0767 ppb	0.04716	61.52%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	28.7	5.3071 µg/L	4.97697	5.3071 ppb	4.97697	93.78%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.4	0.4331 µg/L	2.16790	0.4331 ppb	2.16790	500.51%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-35.9	-0.5294 µg/L	0.68010	-0.5294 ppb	0.68010	128.47%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	16.7	0.0671 µg/L	0.08530	0.0671 ppb	0.08530	127.20%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	274.1	0.0723 µg/L	0.03793	0.0723 ppb	0.03793	52.45%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	96.1	5.3530 µg/L	0.47226	5.3530 ppb	0.47226	8.82%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	29.5	0.1837 µg/L	0.06479	0.1837 ppb	0.06479	35.27%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	12.6	0.1547 µg/L	0.01867	0.1547 ppb	0.01867	12.07%



QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	6.6	0.0576 µg/L	0.09767	0.0576 ppb	0.09767	169.60%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-37.7	-0.1518 µg/L	0.42126	-0.1518 ppb	0.42126	277.60%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	101.8	6.2718 µg/L	0.71549	6.2718 ppb	0.71549	11.41%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	355.1	130.01 µg/L	14.197	130.01 ppb	14.197	10.92%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-12.1	-4.5221 µg/L	3.12050	-4.5221 ppb	3.12050	69.01%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	107.7	0.1334 µg/L	0.03737	0.1334 ppb	0.03737	28.01%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	4.0	0.1182 µg/L	0.37600	0.1182 ppb	0.37600	318.18%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	96.8	13.110 µg/L	9.4739	13.110 ppb	9.4739	72.26%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	0.9	0.0099 µg/L	0.17332	0.0099 ppb	0.17332	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-4.6	-0.9786 µg/L	0.57141	-0.9786 ppb	0.57141	58.39%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-12.3	-0.6773 µg/L	0.91616	-0.6773 ppb	0.91616	135.26%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-6.6	-4.8786 µg/L	6.23561	-4.8786 ppb	6.23561	127.82%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-2.3	-0.2716 µg/L	0.16066	-0.2716 ppb	0.16066	59.14%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	3.6	1.28 µg/L	1.379	1.28 ppb	1.379	107.38%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	-3.1	-0.3119 µg/L	2.80175	-0.3119 ppb	2.80175	898.16%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	94.6	1.3901 µg/L	0.17359	1.3901 ppb	0.17359	12.49%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	5.8	0.3617 µg/L	0.16924	0.3617 ppb	0.16924	46.78%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-11.4	-0.0238 µg/L	0.06494	-0.0238 ppb	0.06494	273.03%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	161.5	0.1545 µg/L	0.10934	0.1545 ppb	0.10934	70.77%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	6.2	0.7616 µg/L	0.64382	0.7616 ppb	0.64382	84.53%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-130.2	-7.6208 µg/L	10.50370	-7.6208 ppb	10.50370	137.83%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-30.3	-0.1523 µg/L	1.02242	-0.1523 ppb	1.02242	671.32%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	32.4	0.1815 µg/L	0.03598	0.1815 ppb	0.03598	19.83%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 158

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 1:06:58

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	146522.6	146522.6	100 %		01:07:32
1	Al 396.153Radial†	26773.8	26728.7	4933.4 µg/L	4933.4 ppb	01:07:32
1	Ca 317.933Radial†	87529.0	86614.3	4824.8 µg/L	4824.8 ppb	01:07:32
1	Fe 238.204 Radial†	78541.6	78075.8	4812.1 µg/L	4812.1 ppb	01:07:32
1	K 766.490 Radial†	15525.2	13917.7	5091.5 µg/L	5091.5 ppb	01:07:32
1	Mg 279.077 IEC†	13414.6	13169.6	4914.3 µg/L	4914.3 ppb	01:07:32
1	Na 589.592 Radial†	72095.2	70512.7	9628.4 µg/L	9628.4 ppb	01:07:32
1	Sr 421.552†	235357.5	234540.5	487.56 µg/L	487.56 ppb	01:07:30
1	Sc 361.383	1762084.8	1762084.8	102.55 %		01:07:59
1	Y 371.029	1041330.1	1041330.1	101.43 %		01:07:59
1	Ag 328.068†	134973.9	127522.4	478.16 µg/L	478.16 ppb	01:07:59
1	As 188.979†	1631.3	1611.1	494.16 µg/L	494.16 ppb	01:08:19
1	B 249.677†	36407.7	31995.5	470.22 µg/L	470.22 ppb	01:07:59
1	Ba 233.527†	121835.6	118938.4	479.67 µg/L	479.67 ppb	01:07:59
1	Be 313.107†	1812562.4	1768503.2	481.66 µg/L	481.66 ppb	01:07:59
1	Cd 226.502†	77806.6	75987.8	474.35 µg/L	474.35 ppb	01:07:59
1	Co 228.616†	39537.1	38743.2	478.28 µg/L	478.28 ppb	01:07:59
1	Cr 267.716†	62417.9	60685.5	475.17 µg/L	475.17 ppb	01:07:59
1	Cu 324.752†	128335.3	122168.2	476.24 µg/L	476.24 ppb	01:07:59
1	Mn 257.610†	398229.3	388078.1	479.96 µg/L	479.96 ppb	01:07:59
1	Mo 202.031†	16581.6	16188.8	476.21 µg/L	476.21 ppb	01:08:19
1	Ni 231.604†	42325.1	41347.9	476.09 µg/L	476.09 ppb	01:07:59
1	P 214.914†	11363.6	11098.7	2365.6 µg/L	2365.6 ppb	01:08:19
1	Pb 220.353†	8809.5	8503.8	476.23 µg/L	476.23 ppb	01:08:19
1	S 181.975 Axial†	1388.1	1248.5	931.12 µg/L	931.12 ppb	01:08:19
1	Sb 206.836†	4172.3	3987.6	475.12 µg/L	475.12 ppb	01:08:19
1	Se 196.026†	1355.6	1306.5	474 µg/L	474 ppb	01:08:19
1	SiO2†	55579.1	52420.1	5103.2 µg/L	5103.2 ppb	01:07:59
1	Si 251.611†	167664.3	162653.7	2388.5 µg/L	2388.5 ppb	01:07:59
1	Sn 189.927†	7816.4	7622.9	476.82 µg/L	476.82 ppb	01:08:19
1	Ti 334.940†	526571.2	512509.7	478.21 µg/L	478.21 ppb	01:07:59
1	Tl 190.801†	3871.8	3892.1	485.40 µg/L	485.40 ppb	01:08:19
1	U 409.014†	7269.4	7358.4	459.25 µg/L	459.25 ppb	01:07:59
1	V 292.402†	100190.2	97292.2	480.93 µg/L	480.93 ppb	01:07:59
1	Zn 213.857†	87537.1	84793.4	472.58 µg/L	472.58 ppb	01:07:59
2	Sc RADIAL	146791.9	146791.9	101 %		01:07:36
2	Al 396.153Radial†	27048.5	26952.8	4975.0 µg/L	4975.0 ppb	01:07:36
2	Ca 317.933Radial†	87767.1	86691.0	4829.0 µg/L	4829.0 ppb	01:07:36
2	Fe 238.204 Radial†	78690.1	78079.8	4812.4 µg/L	4812.4 ppb	01:07:36
2	K 766.490 Radial†	15502.6	13866.8	5072.9 µg/L	5072.9 ppb	01:07:36
2	Mg 279.077 IEC†	13437.6	13167.9	4913.6 µg/L	4913.6 ppb	01:07:36
2	Na 589.592 Radial†	72405.6	70689.6	9652.5 µg/L	9652.5 ppb	01:07:36
2	Sr 421.552†	234136.0	232896.1	484.14 µg/L	484.14 ppb	01:07:34
2	Sc 361.383	1778604.4	1778604.4	103.51 %		01:08:22
2	Y 371.029	1050375.8	1050375.8	102.31 %		01:08:22
2	Ag 328.068†	136891.1	128152.0	480.51 µg/L	480.51 ppb	01:08:22
2	As 188.979†	1644.9	1609.4	493.66 µg/L	493.66 ppb	01:08:42
2	B 249.677†	36899.1	32140.4	472.35 µg/L	472.35 ppb	01:08:22
2	Ba 233.527†	123076.9	119034.1	480.06 µg/L	480.06 ppb	01:08:22
2	Be 313.107†	1839423.0	1778036.1	484.26 µg/L	484.26 ppb	01:08:22
2	Cd 226.502†	78945.9	76383.7	476.82 µg/L	476.82 ppb	01:08:22
2	Co 228.616†	40112.8	38941.2	480.73 µg/L	480.73 ppb	01:08:22
2	Cr 267.716†	63218.4	60893.4	476.79 µg/L	476.79 ppb	01:08:22
2	Cu 324.752†	130086.8	122697.9	478.30 µg/L	478.30 ppb	01:08:22
2	Mn 257.610†	403480.0	389543.9	481.77 µg/L	481.77 ppb	01:08:22
2	Mo 202.031†	16656.0	16110.6	473.91 µg/L	473.91 ppb	01:08:42
2	Ni 231.604†	42857.3	41478.7	477.60 µg/L	477.60 ppb	01:08:22
2	P 214.914†	11457.7	11086.6	2363.0 µg/L	2363.0 ppb	01:08:42
2	Pb 220.353†	8947.0	8556.9	479.18 µg/L	479.18 ppb	01:08:42

2	S 181.975 Axial†	1398.9	1246.4	929.54 µg/L	929.54 ppb	01:08:42
2	Sb 206.836†	4203.2	3979.6	474.11 µg/L	474.11 ppb	01:08:42
2	Se 196.026†	1349.5	1288.4	468 µg/L	468 ppb	01:08:42
2	SiO2†	56478.7	52785.7	5139.0 µg/L	5139.0 ppb	01:08:22
2	Si 251.611†	170057.2	163446.9	2400.2 µg/L	2400.2 ppb	01:08:22
2	Sn 189.927†	7878.0	7611.7	476.13 µg/L	476.13 ppb	01:08:42
2	Ti 334.940†	533494.1	514428.5	480.00 µg/L	480.00 ppb	01:08:22
2	Tl 190.801†	3890.7	3875.3	483.36 µg/L	483.36 ppb	01:08:42
2	U 409.014†	7435.4	7452.8	464.82 µg/L	464.82 ppb	01:08:22
2	V 292.402†	101287.4	97444.7	481.66 µg/L	481.66 ppb	01:08:22
2	Zn 213.857†	88719.7	85143.1	474.54 µg/L	474.54 ppb	01:08:22
3	Sc RADIAL	146092.3	146092.3	100 %		01:07:40
3	Al 396.153Radial†	26892.5	26925.8	4970.0 µg/L	4970.0 ppb	01:07:40
3	Ca 317.933Radial†	87875.3	87217.0	4858.3 µg/L	4858.3 ppb	01:07:40
3	Fe 238.204 Radial†	78732.4	78496.7	4838.1 µg/L	4838.1 ppb	01:07:40
3	K 766.490 Radial†	15647.7	14085.6	5152.9 µg/L	5152.9 ppb	01:07:40
3	Mg 279.077 IEC†	13491.9	13286.2	4957.7 µg/L	4957.7 ppb	01:07:40
3	Na 589.592 Radial†	72348.8	70977.5	9691.8 µg/L	9691.8 ppb	01:07:40
3	Sr 421.552†	235009.5	234883.4	488.27 µg/L	488.27 ppb	01:07:38
3	Sc 361.383	1770348.4	1770348.4	103.03 %		01:08:45
3	Y 371.029	1045407.1	1045407.1	101.82 %		01:08:45
3	Ag 328.068†	136122.4	128022.6	480.04 µg/L	480.04 ppb	01:08:45
3	As 188.979†	1638.1	1610.2	493.91 µg/L	493.91 ppb	01:09:05
3	B 249.677†	36651.5	32066.4	471.25 µg/L	471.25 ppb	01:08:45
3	Ba 233.527†	122673.9	119197.4	480.72 µg/L	480.72 ppb	01:08:45
3	Be 313.107†	1829445.6	1776639.3	483.88 µg/L	483.88 ppb	01:08:45
3	Cd 226.502†	78812.0	76609.4	478.23 µg/L	478.23 ppb	01:08:45
3	Co 228.616†	40059.1	39069.8	482.31 µg/L	482.31 ppb	01:08:45
3	Cr 267.716†	62827.7	60799.1	476.05 µg/L	476.05 ppb	01:08:45
3	Cu 324.752†	129210.5	122433.4	477.28 µg/L	477.28 ppb	01:08:45
3	Mn 257.610†	402215.3	390134.2	482.50 µg/L	482.50 ppb	01:08:45
3	Mo 202.031†	16594.4	16125.8	474.36 µg/L	474.36 ppb	01:09:05
3	Ni 231.604†	42691.2	41510.6	477.96 µg/L	477.96 ppb	01:08:45
3	P 214.914†	11386.0	11068.7	2359.2 µg/L	2359.2 ppb	01:09:05
3	Pb 220.353†	8898.6	8550.2	478.81 µg/L	478.81 ppb	01:09:05
3	S 181.975 Axial†	1408.3	1261.7	940.94 µg/L	940.94 ppb	01:09:05
3	Sb 206.836†	4205.9	4001.2	476.70 µg/L	476.70 ppb	01:09:05
3	Se 196.026†	1357.9	1302.6	473 µg/L	473 ppb	01:09:05
3	SiO2†	56197.3	52767.1	5137.2 µg/L	5137.2 ppb	01:08:45
3	Si 251.611†	169573.7	163743.8	2404.6 µg/L	2404.6 ppb	01:08:45
3	Sn 189.927†	7850.8	7620.8	476.69 µg/L	476.69 ppb	01:09:05
3	Ti 334.940†	530475.4	513902.1	479.51 µg/L	479.51 ppb	01:08:45
3	Tl 190.801†	3897.8	3899.7	486.34 µg/L	486.34 ppb	01:09:05
3	U 409.014†	7446.2	7496.8	467.41 µg/L	467.41 ppb	01:08:45
3	V 292.402†	100857.9	97484.1	481.85 µg/L	481.85 ppb	01:08:45
3	Zn 213.857†	88341.1	85175.3	474.71 µg/L	474.71 ppb	01:08:45

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1770345.9	103.03 %	0.481			0.47%
Sc RADIAL	146468.9	100 %	0.2			0.24%
Y 371.029	1045704.3	101.85 %	0.441			0.43%
Ag 328.068†	127899.0	479.57 µg/L	1.241	479.57 ppb	1.241	0.26%
QC value within limits for Ag 328.068 Recovery = 95.91%						
Al 396.153Radial†	26869.1	4959.5 µg/L	22.74	4959.5 ppb	22.74	0.46%
QC value within limits for Al 396.153Radial Recovery = 99.19%						
As 188.979†	1610.2	493.91 µg/L	0.253	493.91 ppb	0.253	0.05%
QC value within limits for As 188.979 Recovery = 98.78%						
B 249.677†	32067.4	471.27 µg/L	1.065	471.27 ppb	1.065	0.23%
QC value within limits for B 249.677 Recovery = 94.25%						
Ba 233.527†	119056.6	480.15 µg/L	0.528	480.15 ppb	0.528	0.11%
QC value within limits for Ba 233.527 Recovery = 96.03%						
Be 313.107†	1774392.9	483.27 µg/L	1.403	483.27 ppb	1.403	0.29%
QC value within limits for Be 313.107 Recovery = 96.65%						
Ca 317.933Radial†	86840.8	4837.4 µg/L	18.28	4837.4 ppb	18.28	0.38%
QC value within limits for Ca 317.933Radial Recovery = 96.75%						
Cd 226.502†	76327.0	476.46 µg/L	1.965	476.46 ppb	1.965	0.41%
QC value within limits for Cd 226.502 Recovery = 95.29%						
Co 228.616†	38918.0	480.44 µg/L	2.030	480.44 ppb	2.030	0.42%

QC value within limits for Co 228.616 Recovery = 96.09%

Cr 267.716† 60792.6 476.00 µg/L 0.813 476.00 ppb 0.813 0.17%

QC value within limits for Cr 267.716 Recovery = 95.20%

Cu 324.752† 122433.2 477.28 µg/L 1.032 477.28 ppb 1.032 0.22%

QC value within limits for Cu 324.752 Recovery = 95.46%

Fe 238.204 Radial† 78217.4 4820.8 µg/L 14.91 4820.8 ppb 14.91 0.31%

QC value within limits for Fe 238.204 Radial Recovery = 96.42%

K 766.490 Radial† 13956.7 5105.8 µg/L 41.90 5105.8 ppb 41.90 0.82%

QC value within limits for K 766.490 Radial Recovery = 102.12%

Mg 279.077 IEC† 13207.9 4928.5 µg/L 25.24 4928.5 ppb 25.24 0.51%

QC value within limits for Mg 279.077 IEC Recovery = 98.57%

Mn 257.610† 389252.0 481.41 µg/L 1.309 481.41 ppb 1.309 0.27%

QC value within limits for Mn 257.610 Recovery = 96.28%

Mo 202.031† 16141.8 474.83 µg/L 1.219 474.83 ppb 1.219 0.26%

QC value within limits for Mo 202.031 Recovery = 94.97%

Na 589.592 Radial† 70726.6 9657.6 µg/L 32.02 9657.6 ppb 32.02 0.33%

QC value within limits for Na 589.592 Radial Recovery = 96.58%

Ni 231.604† 41445.7 477.22 µg/L 0.992 477.22 ppb 0.992 0.21%

QC value within limits for Ni 231.604 Recovery = 95.44%

P 214.914† 11084.6 2362.6 µg/L 3.23 2362.6 ppb 3.23 0.14%

QC value within limits for P 214.914 Recovery = 94.50%

Pb 220.353† 8537.0 478.07 µg/L 1.609 478.07 ppb 1.609 0.34%

QC value within limits for Pb 220.353 Recovery = 95.61%

S 181.975 Axial† 1252.2 933.87 µg/L 6.179 933.87 ppb 6.179 0.66%

QC value within limits for S 181.975 Axial Recovery = 93.39%

Sb 206.836† 3989.5 475.31 µg/L 1.305 475.31 ppb 1.305 0.27%

QC value within limits for Sb 206.836 Recovery = 95.06%

Se 196.026† 1299.2 472 µg/L 3.5 472 ppb 3.5 0.73%

QC value within limits for Se 196.026 Recovery = 94.36%

SiO2† 52657.7 5126.5 µg/L 20.17 5126.5 ppb 20.17 0.39%

QC value within limits for SiO2 Recovery = 95.87%

Si 251.611† 163281.5 2397.8 µg/L 8.32 2397.8 ppb 8.32 0.35%

QC value within limits for Si 251.611 Recovery = 95.91%

Sn 189.927† 7618.4 476.55 µg/L 0.370 476.55 ppb 0.370 0.08%

QC value within limits for Sn 189.927 Recovery = 95.31%

Sr 421.552† 234106.7 486.66 µg/L 2.208 486.66 ppb 2.208 0.45%

QC value within limits for Sr 421.552 Recovery = 97.33%

Ti 334.940† 513613.4 479.24 µg/L 0.924 479.24 ppb 0.924 0.19%

QC value within limits for Ti 334.940 Recovery = 95.85%

Tl 190.801† 3889.0 485.03 µg/L 1.526 485.03 ppb 1.526 0.31%

QC value within limits for Tl 190.801 Recovery = 97.01%

U 409.014† 7436.0 463.82 µg/L 4.171 463.82 ppb 4.171 0.90%

QC value within limits for U 409.014 Recovery = 92.76%

V 292.402† 97407.0 481.48 µg/L 0.487 481.48 ppb 0.487 0.10%

QC value within limits for V 292.402 Recovery = 96.30%

Zn 213.857† 85037.3 473.94 µg/L 1.182 473.94 ppb 1.182 0.25%

QC value within limits for Zn 213.857 Recovery = 94.79%

All analyte(s) passed QC.

Sequence No.: 159  
 Sample ID: CCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 8  
 Date Collected: 4/1/2010 1:09:13  
 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	146128.5	146128.5	100 %		01:09:42
1	Al 396.153Radial†	21.7	84.8	15.716 µg/L	15.716 ppb	01:10:02
1	Ca 317.933Radial†	736.1	174.5	9.7222 µg/L	9.7222 ppb	01:10:02
1	Fe 238.204 Radial†	312.8	164.3	10.127 µg/L	10.127 ppb	01:10:02
1	K 766.490 Radial†	2113.9	566.2	207.29 µg/L	207.29 ppb	01:09:42
1	Mg 279.077 IEC†	213.9	22.9	8.5204 µg/L	8.5204 ppb	01:10:02
1	Na 589.592 Radial†	1401.2	108.5	14.644 µg/L	14.644 ppb	01:09:42
1	Sr 421.552†	-140.7	-5.2	-0.0110 µg/L	-0.0110 ppb	01:09:42
1	Sc 361.383	1779002.1	1779002.1	103.54 %		01:11:04
1	Y 371.029	1062055.8	1062055.8	103.44 %		01:11:04
1	Ag 328.068†	4011.9	-216.6	-0.7870 µg/L	-0.7870 ppb	01:11:06
1	As 188.979†	-3.3	17.2	5.2109 µg/L	5.2109 ppb	01:11:26
1	B 249.677†	3579.4	-48.7	-0.7204 µg/L	-0.7204 ppb	01:11:06
1	Ba 233.527†	-100.8	38.5	0.1554 µg/L	0.1554 ppb	01:11:26
1	Be 313.107†	-912.4	183.5	0.0524 µg/L	0.0524 ppb	01:11:06
1	Cd 226.502†	-113.0	9.1	0.0554 µg/L	0.0554 ppb	01:11:26
1	Co 228.616†	-162.1	33.7	0.4158 µg/L	0.4158 ppb	01:11:26
1	Cr 267.716†	218.6	32.5	0.2490 µg/L	0.2490 ppb	01:11:26
1	Cu 324.752†	2858.4	-211.5	-0.8135 µg/L	-0.8135 ppb	01:11:06
1	Mn 257.610†	394.6	143.8	0.1776 µg/L	0.1776 ppb	01:11:26
1	Mo 202.031†	-10.8	9.7	0.2849 µg/L	0.2849 ppb	01:11:26
1	Ni 231.604†	-102.3	-22.3	-0.2566 µg/L	-0.2566 ppb	01:11:26
1	P 214.914†	-11.8	6.6	1.4104 µg/L	1.4104 ppb	01:11:26
1	Pb 220.353†	58.5	-29.9	-1.6702 µg/L	-1.6702 ppb	01:11:26
1	S 181.975 Axial†	94.9	-13.4	-9.9448 µg/L	-9.9448 ppb	01:11:26
1	Sb 206.836†	73.9	-9.4	-1.1181 µg/L	-1.1181 ppb	01:11:26
1	Se 196.026†	3.0	-12.4	-4.47 µg/L	-4.47 ppb	01:11:26
1	SiO2†	1673.9	-158.6	-15.514 µg/L	-15.514 ppb	01:11:06
1	Si 251.611†	875.4	8.9	0.1281 µg/L	0.1281 ppb	01:11:06
1	Sn 189.927†	-1.0	0.1	0.0104 µg/L	0.0104 ppb	01:11:26
1	Ti 334.940†	1332.9	334.8	0.3090 µg/L	0.3090 ppb	01:11:06
1	Tl 190.801†	-105.0	15.3	1.8866 µg/L	1.8866 ppb	01:11:26
1	U 409.014†	-139.3	135.4	7.9422 µg/L	7.9422 ppb	01:11:06
1	V 292.402†	520.5	98.9	0.4905 µg/L	0.4905 ppb	01:11:06
1	Zn 213.857†	599.7	14.8	0.0844 µg/L	0.0844 ppb	01:11:26
2	Sc RADIAL	146813.6	146813.6	101 %		01:10:04
2	Al 396.153Radial†	-26.8	36.6	6.7739 µg/L	6.7739 ppb	01:10:24
2	Ca 317.933Radial†	799.6	234.2	13.044 µg/L	13.044 ppb	01:10:24
2	Fe 238.204 Radial†	380.9	230.5	14.206 µg/L	14.206 ppb	01:10:24
2	K 766.490 Radial†	2016.0	459.1	168.07 µg/L	168.07 ppb	01:10:04
2	Mg 279.077 IEC†	199.3	7.4	2.7300 µg/L	2.7300 ppb	01:10:24
2	Na 589.592 Radial†	1532.0	232.0	31.539 µg/L	31.539 ppb	01:10:04
2	Sr 421.552†	-276.0	-139.1	-0.2892 µg/L	-0.2892 ppb	01:10:04
2	Sc 361.383	1772846.3	1772846.3	103.18 %		01:11:28
2	Y 371.029	1058367.3	1058367.3	103.09 %		01:11:28
2	Ag 328.068†	3953.0	-260.2	-0.9687 µg/L	-0.9687 ppb	01:11:30
2	As 188.979†	-11.1	9.6	2.9020 µg/L	2.9020 ppb	01:11:51
2	B 249.677†	3504.7	-109.2	-1.6118 µg/L	-1.6118 ppb	01:11:30
2	Ba 233.527†	-93.1	45.6	0.1835 µg/L	0.1835 ppb	01:11:51
2	Be 313.107†	-921.0	172.1	0.0458 µg/L	0.0458 ppb	01:11:30
2	Cd 226.502†	-118.2	3.6	0.0212 µg/L	0.0212 ppb	01:11:51
2	Co 228.616†	-173.4	22.3	0.2745 µg/L	0.2745 ppb	01:11:51
2	Cr 267.716†	185.2	0.9	0.0101 µg/L	0.0101 ppb	01:11:51
2	Cu 324.752†	2984.8	-79.4	-0.3090 µg/L	-0.3090 ppb	01:11:30
2	Mn 257.610†	358.6	110.3	0.1363 µg/L	0.1363 ppb	01:11:51
2	Mo 202.031†	-18.5	2.1	0.0628 µg/L	0.0628 ppb	01:11:51
2	Ni 231.604†	-79.0	-0.0	-0.0005 µg/L	-0.0005 ppb	01:11:51
2	P 214.914†	-17.7	0.8	0.1744 µg/L	0.1744 ppb	01:11:51
2	Pb 220.353†	91.7	2.4	0.1393 µg/L	0.1393 ppb	01:11:51

2	S 181.975 Axial†	93.2	-14.7	-10.902 µg/L	-10.902 ppb	01:11:51
2	Sb 206.836†	88.1	4.5	0.5418 µg/L	0.5418 ppb	01:11:51
2	Se 196.026†	30.0	13.8	4.99 µg/L	4.99 ppb	01:11:51
2	SiO2†	1856.5	23.9	2.3278 µg/L	2.3278 ppb	01:11:30
2	Si 251.611†	711.9	-146.6	-2.1655 µg/L	-2.1655 ppb	01:11:30
2	Sn 189.927†	7.1	8.0	0.4985 µg/L	0.4985 ppb	01:11:51
2	Ti 334.940†	1070.6	85.1	0.0810 µg/L	0.0810 ppb	01:11:30
2	Tl 190.801†	-109.4	10.7	1.3129 µg/L	1.3129 ppb	01:11:51
2	U 409.014†	-338.3	-58.0	-3.3954 µg/L	-3.3954 ppb	01:11:30
2	V 292.402†	407.5	-8.8	-0.0463 µg/L	-0.0463 ppb	01:11:30
2	Zn 213.857†	608.7	25.6	0.1424 µg/L	0.1424 ppb	01:11:51
3	Sc RADIAL	143813.7	143813.7	98.5 %		01:10:26
3	Al 396.153Radial†	-37.9	24.7	4.5852 µg/L	4.5852 ppb	01:10:46
3	Ca 317.933Radial†	675.0	124.4	6.9283 µg/L	6.9283 ppb	01:10:46
3	Fe 238.204 Radial†	268.6	124.4	7.6689 µg/L	7.6689 ppb	01:10:46
3	K 766.490 Radial†	2088.7	574.6	210.37 µg/L	210.37 ppb	01:10:26
3	Mg 279.077 IEC†	196.5	8.7	3.2166 µg/L	3.2166 ppb	01:10:46
3	Na 589.592 Radial†	1456.5	187.1	25.377 µg/L	25.377 ppb	01:10:26
3	Sr 421.552†	-185.3	-52.7	-0.1097 µg/L	-0.1097 ppb	01:10:26
3	Sc 361.383	1766720.8	1766720.8	102.82 %		01:11:53
3	Y 371.029	1055436.7	1055436.7	102.80 %		01:11:53
3	Ag 328.068†	4141.9	-63.2	-0.2377 µg/L	-0.2377 ppb	01:11:55
3	As 188.979†	-13.9	6.9	2.0745 µg/L	2.0745 ppb	01:12:15
3	B 249.677†	3478.7	-122.7	-1.8116 µg/L	-1.8116 ppb	01:11:55
3	Ba 233.527†	-110.8	28.1	0.1129 µg/L	0.1129 ppb	01:12:15
3	Be 313.107†	-876.4	212.4	0.0574 µg/L	0.0574 ppb	01:11:55
3	Cd 226.502†	-103.6	17.5	0.1084 µg/L	0.1084 ppb	01:12:15
3	Co 228.616†	-163.0	31.7	0.3914 µg/L	0.3914 ppb	01:12:15
3	Cr 267.716†	182.9	-0.6	-0.0038 µg/L	-0.0038 ppb	01:12:15
3	Cu 324.752†	2678.2	-367.6	-1.4282 µg/L	-1.4282 ppb	01:11:55
3	Mn 257.610†	398.1	149.9	0.1853 µg/L	0.1853 ppb	01:12:15
3	Mo 202.031†	-22.2	-1.5	-0.0432 µg/L	-0.0432 ppb	01:12:15
3	Ni 231.604†	-66.6	11.8	0.1354 µg/L	0.1354 ppb	01:12:15
3	P 214.914†	-21.4	-2.9	-0.5979 µg/L	-0.5979 ppb	01:12:15
3	Pb 220.353†	84.0	-4.7	-0.2620 µg/L	-0.2620 ppb	01:12:15
3	S 181.975 Axial†	104.4	-3.6	-2.6485 µg/L	-2.6485 ppb	01:12:15
3	Sb 206.836†	79.6	-3.4	-0.4028 µg/L	-0.4028 ppb	01:12:15
3	Se 196.026†	9.2	-6.3	-2.29 µg/L	-2.29 ppb	01:12:15
3	SiO2†	1792.3	-32.2	-3.1590 µg/L	-3.1590 ppb	01:11:55
3	Si 251.611†	915.0	53.3	0.7827 µg/L	0.7827 ppb	01:11:55
3	Sn 189.927†	8.6	9.4	0.5891 µg/L	0.5891 ppb	01:12:15
3	Ti 334.940†	1052.9	71.4	0.0672 µg/L	0.0672 ppb	01:11:55
3	Tl 190.801†	-98.3	21.1	2.5907 µg/L	2.5907 ppb	01:12:15
3	U 409.014†	-302.2	-24.1	-1.4147 µg/L	-1.4147 ppb	01:11:55
3	V 292.402†	386.4	-28.0	-0.1388 µg/L	-0.1388 ppb	01:11:55
3	Zn 213.857†	594.9	14.1	0.0789 µg/L	0.0789 ppb	01:12:15

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Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1772856.4	103.18 %	0.357			0.35%
Sc RADIAL	145585.3	99.8 %	1.08			1.08%
Y 371.029	1058619.9	103.11 %	0.323			0.31%
Ag 328.068†	-180.0	-0.6645 µg/L	0.38057	-0.6645 ppb	0.38057	57.27%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	48.7	9.0249 µg/L	5.89678	9.0249 ppb	5.89678	65.34%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	11.2	3.3958 µg/L	1.62548	3.3958 ppb	1.62548	47.87%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-93.6	-1.3813 µg/L	0.58098	-1.3813 ppb	0.58098	42.06%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	37.4	0.1506 µg/L	0.03553	0.1506 ppb	0.03553	23.59%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	189.3	0.0519 µg/L	0.00580	0.0519 ppb	0.00580	11.19%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	177.7	9.8982 µg/L	3.06173	9.8982 ppb	3.06173	30.93%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	10.1	0.0617 µg/L	0.04391	0.0617 ppb	0.04391	71.22%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	29.3	0.3606 µg/L	0.07550	0.3606 ppb	0.07550	20.94%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	10.9	0.0851 µg/L	0.14212 0.0851 ppb 0.14212 167.04%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-219.5	-0.8502 µg/L	0.56051 -0.8502 ppb 0.56051 65.93%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	173.1	10.667 µg/L	3.3019 10.667 ppb 3.3019 30.95%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	533.3	195.24 µg/L	23.585 195.24 ppb 23.585 12.08%
QC value greater than the upper limit for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	13.0	4.8223 µg/L	3.21185 4.8223 ppb 3.21185 66.60%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	134.7	0.1664 µg/L	0.02633 0.1664 ppb 0.02633 15.82%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	3.4	0.1015 µg/L	0.16744 0.1015 ppb 0.16744 165.00%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	175.9	23.853 µg/L	8.5497 23.853 ppb 8.5497 35.84%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-3.5	-0.0406 µg/L	0.19901 -0.0406 ppb 0.19901 490.53%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	1.5	0.3289 µg/L	1.01302 0.3289 ppb 1.01302 307.97%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-10.7	-0.5976 µg/L	0.95031 -0.5976 ppb 0.95031 159.02%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-10.5	-7.8319 µg/L	4.51438 -7.8319 ppb 4.51438 57.64%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	-2.8	-0.3264 µg/L	0.83261 -0.3264 ppb 0.83261 255.12%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	-1.6	-0.590 µg/L	4.9553 -0.590 ppb 4.9553 839.18%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	-55.7	-5.4482 µg/L	9.13833 -5.4482 ppb 9.13833 167.73%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	-28.1	-0.4183 µg/L	1.54819 -0.4183 ppb 1.54819 370.16%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	5.9	0.3660 µg/L	0.31130 0.3660 ppb 0.31130 85.06%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-65.7	-0.1366 µg/L	0.14107 -0.1366 ppb 0.14107 103.24%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	163.8	0.1524 µg/L	0.13582 0.1524 ppb 0.13582 89.12%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	15.7	1.9301 µg/L	0.63996 1.9301 ppb 0.63996 33.16%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	17.8	1.0440 µg/L	6.05550 1.0440 ppb 6.05550 580.00%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	20.7	0.1018 µg/L	0.33976 0.1018 ppb 0.33976 333.78%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	18.2	0.1019 µg/L	0.03517 0.1019 ppb 0.03517 34.52%
QC value within limits for Zn 213.857	Recovery = Not calculated		
QC Failed. Continue with analysis.			

Sequence No.: 166

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 101

Date Collected: 4/1/2010 1:24:54

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	145220.2	145220.2	99.5 %		01:25:27
1	Al 396.153Radial†	1026.0	1094.2	202.46 µg/L	202.46 ppb	01:25:29
1	Ca 317.933Radial†	4609.9	4071.8	226.82 µg/L	226.82 ppb	01:25:29
1	Fe 238.204 Radial†	1968.1	1829.6	112.77 µg/L	112.77 ppb	01:25:29
1	K 766.490 Radial†	2608.3	1076.2	393.87 µg/L	393.87 ppb	01:25:27
1	Mg 279.077 IEC†	981.2	795.3	296.44 µg/L	296.44 ppb	01:25:29
1	Na 589.592 Radial†	3274.2	1999.4	272.79 µg/L	272.79 ppb	01:25:29
1	Sr 421.552†	2468.6	2615.9	5.4365 µg/L	5.4365 ppb	01:25:29
1	Sc 361.383	1776914.9	1776914.9	103.42 %		01:25:54
1	Y 371.029	1061110.4	1061110.4	103.35 %		01:25:54
1	Ag 328.068†	5516.0	1242.4	4.6974 µg/L	4.6974 ppb	01:25:57
1	As 188.979†	79.4	97.1	29.467 µg/L	29.467 ppb	01:26:17
1	B 249.677†	6876.6	3143.6	46.345 µg/L	46.345 ppb	01:25:57
1	Ba 233.527†	1126.3	1225.0	4.9403 µg/L	4.9403 ppb	01:26:17
1	Be 313.107†	16623.4	17138.9	4.6807 µg/L	4.6807 ppb	01:25:57
1	Cd 226.502†	669.1	765.2	4.7696 µg/L	4.7696 ppb	01:26:17
1	Co 228.616†	220.9	403.9	4.9828 µg/L	4.9828 ppb	01:26:17
1	Cr 267.716†	800.6	595.6	4.6277 µg/L	4.6277 ppb	01:26:17
1	Cu 324.752†	5654.8	2495.8	9.7651 µg/L	9.7651 ppb	01:25:57
1	Mn 257.610†	8984.8	8450.8	10.444 µg/L	10.444 ppb	01:25:57
1	Mo 202.031†	291.8	302.2	8.8937 µg/L	8.8937 ppb	01:26:17
1	Ni 231.604†	331.0	396.6	4.5665 µg/L	4.5665 ppb	01:26:17
1	P 214.914†	634.8	631.8	134.99 µg/L	134.99 ppb	01:26:17
1	Pb 220.353†	254.6	159.8	8.9233 µg/L	8.9233 ppb	01:26:17
1	Sb 181.975 Axial†	226.2	113.6	84.457 µg/L	84.457 ppb	01:26:17
1	Sb 206.836†	153.4	67.5	8.1023 µg/L	8.1023 ppb	01:26:17
1	Se 196.026†	96.6	78.2	28.3 µg/L	28.3 ppb	01:26:17
1	SiO2†	4027.2	2118.8	206.70 µg/L	206.70 ppb	01:25:57
1	Si 251.611†	8009.6	6908.5	101.67 µg/L	101.67 ppb	01:25:57
1	Sn 189.927†	160.9	156.7	9.7865 µg/L	9.7865 ppb	01:26:17
1	Ti 334.940†	6771.9	5595.7	5.1890 µg/L	5.1890 ppb	01:25:57
1	Tl 190.801†	67.2	181.6	22.405 µg/L	22.405 ppb	01:26:17
1	U 409.014†	545.7	797.6	46.916 µg/L	46.916 ppb	01:25:57
1	V 292.402†	1274.9	829.0	4.1708 µg/L	4.1708 ppb	01:25:57
1	Zn 213.857†	2347.0	1705.1	9.5327 µg/L	9.5327 ppb	01:26:17
2	Sc RADIAL	148650.7	148650.7	102 %		01:25:31
2	Al 396.153Radial†	1080.9	1124.3	208.05 µg/L	208.05 ppb	01:25:33
2	Ca 317.933Radial†	4471.0	3828.6	213.27 µg/L	213.27 ppb	01:25:33
2	Fe 238.204 Radial†	1972.4	1788.2	110.21 µg/L	110.21 ppb	01:25:33
2	K 766.490 Radial†	2667.2	1073.6	392.91 µg/L	392.91 ppb	01:25:31
2	Mg 279.077 IEC†	1006.3	797.2	297.13 µg/L	297.13 ppb	01:25:33
2	Na 589.592 Radial†	3405.2	2052.1	279.99 µg/L	279.99 ppb	01:25:33
2	Sr 421.552†	2412.0	2503.1	5.2022 µg/L	5.2022 ppb	01:25:33
2	Sc 361.383	1752674.4	1752674.4	102.01 %		01:26:19
2	Y 371.029	1046889.1	1046889.1	101.97 %		01:26:19
2	Ag 328.068†	5262.6	1067.8	4.0634 µg/L	4.0634 ppb	01:26:21
2	As 188.979†	81.9	100.6	30.526 µg/L	30.526 ppb	01:26:41
2	B 249.677†	6633.0	2996.7	44.179 µg/L	44.179 ppb	01:26:21
2	Ba 233.527†	1099.4	1213.7	4.8951 µg/L	4.8951 ppb	01:26:41
2	Be 313.107†	16736.8	17472.4	4.7722 µg/L	4.7722 ppb	01:26:21
2	Cd 226.502†	673.3	778.3	4.8519 µg/L	4.8519 ppb	01:26:41
2	Co 228.616†	218.4	404.4	4.9890 µg/L	4.9890 ppb	01:26:41
2	Cr 267.716†	786.8	592.8	4.6041 µg/L	4.6041 ppb	01:26:41
2	Cu 324.752†	5584.1	2502.1	9.7910 µg/L	9.7910 ppb	01:26:21
2	Mn 257.610†	8982.0	8568.1	10.589 µg/L	10.589 ppb	01:26:21
2	Mo 202.031†	278.4	293.0	8.6217 µg/L	8.6217 ppb	01:26:41
2	Ni 231.604†	348.2	417.8	4.8109 µg/L	4.8109 ppb	01:26:41
2	P 214.914†	648.8	654.0	139.73 µg/L	139.73 ppb	01:26:41
2	Pb 220.353†	240.3	149.2	8.3257 µg/L	8.3257 ppb	01:26:41



2	S 181.975 Axial†	223.5	114.0	84.730 µg/L	84.730 ppb	01:26:41
2	Sb 206.836†	159.4	75.4	9.0387 µg/L	9.0387 ppb	01:26:41
2	Se 196.026†	79.4	62.6	22.7 µg/L	22.7 ppb	01:26:41
2	SiO2†	3966.6	2113.3	206.17 µg/L	206.17 ppb	01:26:21
2	Si 251.611†	8005.3	7011.3	103.19 µg/L	103.19 ppb	01:26:21
2	Sn 189.927†	153.6	151.7	9.4764 µg/L	9.4764 ppb	01:26:41
2	Ti 334.940†	6801.6	5715.3	5.2994 µg/L	5.2994 ppb	01:26:21
2	Tl 190.801†	48.3	164.0	20.242 µg/L	20.242 ppb	01:26:41
2	U 409.014†	577.6	836.2	49.218 µg/L	49.218 ppb	01:26:21
2	V 292.402†	1425.6	993.8	4.9734 µg/L	4.9734 ppb	01:26:21
2	Zn 213.857†	2317.2	1707.3	9.5440 µg/L	9.5440 ppb	01:26:41
3	Sc RADIAL	146336.5	146336.5	100 %		01:25:35
3	Al 396.153Radial†	1112.5	1172.6	217.01 µg/L	217.01 ppb	01:25:37
3	Ca 317.933Radial†	4552.4	3979.1	221.65 µg/L	221.65 ppb	01:25:37
3	Fe 238.204 Radial†	1996.3	1842.6	113.57 µg/L	113.57 ppb	01:25:37
3	K 766.490 Radial†	2451.7	900.1	329.39 µg/L	329.39 ppb	01:25:35
3	Mg 279.077 IEC†	967.1	773.7	288.40 µg/L	288.40 ppb	01:25:37
3	Na 589.592 Radial†	3492.4	2191.9	299.15 µg/L	299.15 ppb	01:25:37
3	Sr 421.552†	2344.6	2473.4	5.1402 µg/L	5.1402 ppb	01:25:37
3	Sc 361.383	1751598.8	1751598.8	101.94 %		01:26:43
3	Y 371.029	1046534.1	1046534.1	101.93 %		01:26:43
3	Ag 328.068†	5015.1	828.2	3.1557 µg/L	3.1557 ppb	01:26:45
3	As 188.979†	89.0	107.7	32.652 µg/L	32.652 ppb	01:27:05
3	B 249.677†	6730.4	3096.2	45.646 µg/L	45.646 ppb	01:26:45
3	Ba 233.527†	1166.2	1279.9	5.1609 µg/L	5.1609 ppb	01:27:05
3	Be 313.107†	16935.5	17677.5	4.8269 µg/L	4.8269 ppb	01:26:45
3	Cd 226.502†	672.1	777.5	4.8467 µg/L	4.8467 ppb	01:27:05
3	Co 228.616†	224.3	410.3	5.0620 µg/L	5.0620 ppb	01:27:05
3	Cr 267.716†	800.6	606.8	4.7164 µg/L	4.7164 ppb	01:27:05
3	Cu 324.752†	5648.2	2568.4	10.046 µg/L	10.046 ppb	01:26:45
3	Mn 257.610†	8916.3	8509.1	10.517 µg/L	10.517 ppb	01:26:45
3	Mo 202.031†	275.9	290.7	8.5554 µg/L	8.5554 ppb	01:27:05
3	Ni 231.604†	332.7	402.9	4.6388 µg/L	4.6388 ppb	01:27:05
3	P 214.914†	657.4	662.8	141.62 µg/L	141.62 ppb	01:27:05
3	Pb 220.353†	243.1	152.1	8.4924 µg/L	8.4924 ppb	01:27:05
3	S 181.975 Axial†	226.5	117.1	87.048 µg/L	87.048 ppb	01:27:05
3	Sb 206.836†	145.2	61.6	7.3917 µg/L	7.3917 ppb	01:27:05
3	Se 196.026†	93.5	76.4	27.7 µg/L	27.7 ppb	01:27:05
3	SiO2†	3991.1	2139.6	208.75 µg/L	208.75 ppb	01:26:45
3	Si 251.611†	7913.3	6925.9	101.93 µg/L	101.93 ppb	01:26:45
3	Sn 189.927†	158.3	156.4	9.7675 µg/L	9.7675 ppb	01:27:05
3	Ti 334.940†	6518.0	5441.2	5.0458 µg/L	5.0458 ppb	01:26:45
3	Tl 190.801†	63.4	178.9	22.063 µg/L	22.063 ppb	01:27:05
3	U 409.014†	512.4	772.5	45.420 µg/L	45.420 ppb	01:26:45
3	V 292.402†	1152.1	726.3	3.6657 µg/L	3.6657 ppb	01:26:45
3	Zn 213.857†	2354.5	1745.2	9.7578 µg/L	9.7578 ppb	01:27:05

## Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1760396.0	102.45 %	0.833			0.81%
Sc RADIAL	146735.8	101 %	1.2			1.19%
Y 371.029	1051511.2	102.42 %	0.810			0.79%
Ag 328.068†	1046.1	3.9722 µg/L	0.77487	3.9722 ppb	0.77487	19.51%
QC value within limits for Ag 328.068 Recovery = 79.44%						
Al 396.153Radial†	1130.4	209.17 µg/L	7.341	209.17 ppb	7.341	3.51%
QC value within limits for Al 396.153Radial Recovery = 104.59%						
As 188.979†	101.8	30.882 µg/L	1.6220	30.882 ppb	1.6220	5.25%
QC value within limits for As 188.979 Recovery = 102.94%						
B 249.677†	3078.8	45.390 µg/L	1.1055	45.390 ppb	1.1055	2.44%
QC value within limits for B 249.677 Recovery = 90.78%						
Ba 233.527†	1239.5	4.9988 µg/L	0.14223	4.9988 ppb	0.14223	2.85%
QC value within limits for Ba 233.527 Recovery = 99.98%						
Be 313.107†	17429.6	4.7599 µg/L	0.07386	4.7599 ppb	0.07386	1.55%
QC value within limits for Be 313.107 Recovery = 95.20%						
Ca 317.933Radial†	3959.9	220.58 µg/L	6.838	220.58 ppb	6.838	3.10%
QC value within limits for Ca 317.933Radial Recovery = 110.29%						
Cd 226.502†	773.7	4.8227 µg/L	0.04609	4.8227 ppb	0.04609	0.96%
QC value within limits for Cd 226.502 Recovery = 96.45%						
Co 228.616†	406.2	5.0113 µg/L	0.04406	5.0113 ppb	0.04406	0.88%

Cr	267.716†	598.4	4.6494 µg/L	0.05919	4.6494 ppb	0.05919	1.27%
Cu	324.752†	2522.1	9.8673 µg/L	0.15510	9.8673 ppb	0.15510	1.57%
Fe	238.204 Radial†	1820.2	112.18 µg/L	1.752	112.18 ppb	1.752	1.56%
K	766.490 Radial†	1016.7	372.06 µg/L	36.956	372.06 ppb	36.956	9.93%
Mg	279.077 IEC†	788.7	293.99 µg/L	4.853	293.99 ppb	4.853	1.65%
Mn	257.610†	8509.3	10.517 µg/L	0.0726	10.517 ppb	0.0726	0.69%
Mo	202.031†	295.3	8.6903 µg/L	0.17928	8.6903 ppb	0.17928	2.06%
Na	589.592 Radial†	2081.1	283.97 µg/L	13.624	283.97 ppb	13.624	4.80%
Ni	231.604†	405.8	4.6721 µg/L	0.12559	4.6721 ppb	0.12559	2.69%
P	214.914†	649.5	138.78 µg/L	3.418	138.78 ppb	3.418	2.46%
Pb	220.353†	153.7	8.5805 µg/L	0.30842	8.5805 ppb	0.30842	3.59%
S	181.975 Axial†	114.9	85.411 µg/L	1.4236	85.411 ppb	1.4236	1.67%
Sb	206.836†	68.2	8.1776 µg/L	0.82605	8.1776 ppb	0.82605	10.10%
Se	196.026†	72.4	26.3 µg/L	3.10	26.3 ppb	3.10	11.79%
SiO2†		2123.9	207.21 µg/L	1.360	207.21 ppb	1.360	0.66%
Si	251.611†	6948.6	102.26 µg/L	0.814	102.26 ppb	0.814	0.80%
Sn	189.927†	154.9	9.6768 µg/L	0.17381	9.6768 ppb	0.17381	1.80%
Sr	421.552†	2530.8	5.2596 µg/L	0.15629	5.2596 ppb	0.15629	2.97%
Ti	334.940†	5584.1	5.1781 µg/L	0.12719	5.1781 ppb	0.12719	2.46%
Tl	190.801†	174.8	21.570 µg/L	1.1626	21.570 ppb	1.1626	5.39%
U	409.014†	802.1	47.184 µg/L	1.9131	47.184 ppb	1.9131	4.05%
V	292.402†	849.7	4.2700 µg/L	0.65948	4.2700 ppb	0.65948	15.44%
Zn	213.857†	1719.2	9.6115 µg/L	0.12684	9.6115 ppb	0.12684	1.32%

QC value within limits for Co 228.616 Recovery = 100.23%  
 QC value within limits for Cr 267.716 Recovery = 92.99%  
 QC value within limits for Cu 324.752 Recovery = 98.67%  
 QC value within limits for Fe 238.204 Radial Recovery = 112.18%  
 QC value greater than the upper limit for K 766.490 Radial Recovery = 248.04%  
 QC value within limits for Mg 279.077 IEC Recovery = 98.00%  
 QC value within limits for Mn 257.610 Recovery = 105.17%  
 QC value within limits for Mo 202.031 Recovery = 86.90%  
 QC value within limits for Na 589.592 Radial Recovery = 94.66%  
 QC value within limits for Ni 231.604 Recovery = 93.44%  
 QC value within limits for P 214.914 Recovery = 92.52%  
 QC value within limits for Pb 220.353 Recovery = 85.80%  
 QC value within limits for S 181.975 Axial Recovery = 85.41%  
 QC value within limits for Sb 206.836 Recovery = 81.78%  
 QC value within limits for Se 196.026 Recovery = 87.51%  
 QC value within limits for SiO2 Recovery = 97.28%  
 QC value within limits for Si 251.611 Recovery = 102.26%  
 QC value within limits for Sn 189.927 Recovery = 96.77%  
 QC value within limits for Sr 421.552 Recovery = 105.19%  
 QC value within limits for Ti 334.940 Recovery = 103.56%  
 QC value within limits for Tl 190.801 Recovery = 107.85%  
 QC value within limits for U 409.014 Recovery = 94.37%  
 QC value within limits for V 292.402 Recovery = 85.40%  
 QC value within limits for Zn 213.857 Recovery = 96.11%

QC Failed. Continue with analysis.

Sequence No.: 169  
 Sample ID: CCV  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 7  
 Date Collected: 4/1/2010 1:30:35  
 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	142269.6	142269.6	97.5 %		01:31:08
1	Al 396.153Radial†	26265.9	27004.9	4984.5 µg/L	4984.5 ppb	01:31:08
1	Ca 317.933Radial†	85749.5	87395.0	4868.2 µg/L	4868.2 ppb	01:31:08
1	Fe 238.204 Radial†	76157.7	77968.9	4805.5 µg/L	4805.5 ppb	01:31:08
1	K 766.490 Radial†	14863.6	13701.2	5012.2 µg/L	5012.2 ppb	01:31:08
1	Mg 279.077 IEC†	13087.6	13233.6	4938.2 µg/L	4938.2 ppb	01:31:08
1	Na 589.592 Radial†	70110.3	70623.2	9643.5 µg/L	9643.5 ppb	01:31:08
1	Sr 421.552†	227619.3	233610.5	485.62 µg/L	485.62 ppb	01:31:06
1	Sc 361.383	1737460.4	1737460.4	101.12 %		01:31:21
1	Y 371.029	1026728.3	1026728.3	100.00 %		01:31:21
1	Ag 328.068†	133485.2	127915.4	479.59 µg/L	479.59 ppb	01:31:21
1	As 188.979†	1620.0	1622.4	497.58 µg/L	497.58 ppb	01:31:41
1	B 249.677†	35927.2	32023.4	470.63 µg/L	470.63 ppb	01:31:21
1	Ba 233.527†	119703.8	118513.9	477.96 µg/L	477.96 ppb	01:31:21
1	Be 313.107†	1789882.8	1771124.1	482.37 µg/L	482.37 ppb	01:31:21
1	Cd 226.502†	77069.2	76333.9	476.51 µg/L	476.51 ppb	01:31:21
1	Co 228.616†	38976.7	38735.3	478.19 µg/L	478.19 ppb	01:31:21
1	Cr 267.716†	61508.0	60648.2	474.88 µg/L	474.88 ppb	01:31:21
1	Cu 324.752†	126624.4	122249.8	476.55 µg/L	476.55 ppb	01:31:21
1	Mn 257.610†	392973.5	388384.0	480.34 µg/L	480.34 ppb	01:31:21
1	Mo 202.031†	16410.6	16248.9	477.97 µg/L	477.97 ppb	01:31:41
1	Ni 231.604†	41598.2	41214.0	474.55 µg/L	474.55 ppb	01:31:21
1	P 214.914†	11285.5	11178.5	2382.7 µg/L	2382.7 ppb	01:31:41
1	Pb 220.353†	8747.8	8564.6	479.64 µg/L	479.64 ppb	01:31:41
1	S 181.975 Axial†	1374.4	1254.1	935.33 µg/L	935.33 ppb	01:31:41
1	Sb 206.836†	4142.8	4016.1	478.53 µg/L	478.53 ppb	01:31:41
1	Se 196.026†	1343.3	1313.1	477 µg/L	477 ppb	01:31:41
1	SiO2†	54906.9	52523.5	5113.2 µg/L	5113.2 ppb	01:31:21
1	Si 251.611†	165514.0	162844.3	2391.3 µg/L	2391.3 ppb	01:31:21
1	Sn 189.927†	7741.6	7657.0	478.94 µg/L	478.94 ppb	01:31:41
1	Ti 334.940†	519154.2	512451.9	478.16 µg/L	478.16 ppb	01:31:21
1	Tl 190.801†	3844.3	3918.4	488.62 µg/L	488.62 ppb	01:31:41
1	U 409.014†	7036.4	7228.4	451.59 µg/L	451.59 ppb	01:31:21
1	V 292.402†	98555.4	97060.1	479.81 µg/L	479.81 ppb	01:31:21
1	Zn 213.857†	86480.2	84958.0	473.52 µg/L	473.52 ppb	01:31:21
2	Sc RADIAL	145492.3	145492.3	99.7 %		01:31:12
2	Al 396.153Radial†	26699.5	26843.0	4954.3 µg/L	4954.3 ppb	01:31:12
2	Ca 317.933Radial†	88239.7	87944.4	4898.8 µg/L	4898.8 ppb	01:31:12
2	Fe 238.204 Radial†	78454.6	78542.4	4840.9 µg/L	4840.9 ppb	01:31:12
2	K 766.490 Radial†	15155.4	13656.2	4995.8 µg/L	4995.8 ppb	01:31:12
2	Mg 279.077 IEC†	13542.7	13392.7	4997.5 µg/L	4997.5 ppb	01:31:12
2	Na 589.592 Radial†	71767.1	70692.1	9653.0 µg/L	9653.0 ppb	01:31:12
2	Sr 421.552†	228188.0	229009.4	476.06 µg/L	476.06 ppb	01:31:10
2	Sc 361.383	1723000.0	1723000.0	100.28 %		01:31:44
2	Y 371.029	1017920.8	1017920.8	99.146 %		01:31:44
2	Ag 328.068†	131837.8	127380.5	477.62 µg/L	477.62 ppb	01:31:44
2	As 188.979†	1612.3	1628.2	499.35 µg/L	499.35 ppb	01:32:04
2	B 249.677†	35506.1	31901.7	468.84 µg/L	468.84 ppb	01:31:44
2	Ba 233.527†	118538.3	118345.2	477.28 µg/L	477.28 ppb	01:31:44
2	Be 313.107†	1770416.1	1766566.8	481.14 µg/L	481.14 ppb	01:31:44
2	Cd 226.502†	75820.7	75728.5	472.72 µg/L	472.72 ppb	01:31:44
2	Co 228.616†	38468.3	38551.9	475.92 µg/L	475.92 ppb	01:31:44
2	Cr 267.716†	60774.3	60427.1	473.14 µg/L	473.14 ppb	01:31:44
2	Cu 324.752†	125187.6	121867.9	475.08 µg/L	475.08 ppb	01:31:44
2	Mn 257.610†	388045.5	386731.2	478.29 µg/L	478.29 ppb	01:31:44
2	Mo 202.031†	16407.0	16381.6	481.87 µg/L	481.87 ppb	01:32:04
2	Ni 231.604†	41306.7	41268.5	475.18 µg/L	475.18 ppb	01:31:44
2	P 214.914†	11273.6	11260.3	2400.2 µg/L	2400.2 ppb	01:32:04
2	Pb 220.353†	8792.2	8681.5	486.15 µg/L	486.15 ppb	01:32:04

2	S 181.975 Axial†	1379.3	1270.4	947.45 µg/L	947.45 ppb	01:32:04
2	Sb 206.836†	4139.2	4046.9	482.29 µg/L	482.29 ppb	01:32:04
2	Se 196.026†	1342.4	1323.4	481 µg/L	481 ppb	01:32:04
2	SiO2†	54127.5	52201.9	5081.6 µg/L	5081.6 ppb	01:31:44
2	Si 251.611†	163587.2	162296.6	2383.1 µg/L	2383.1 ppb	01:31:44
2	Sn 189.927†	7748.5	7728.1	483.38 µg/L	483.38 ppb	01:32:04
2	Ti 334.940†	513666.6	511288.3	477.06 µg/L	477.06 ppb	01:31:44
2	Tl 190.801†	3848.1	3954.1	493.00 µg/L	493.00 ppb	01:32:04
2	U 409.014†	7224.9	7474.7	465.94 µg/L	465.94 ppb	01:31:44
2	V 292.402†	97625.8	96951.0	479.31 µg/L	479.31 ppb	01:31:44
2	Zn 213.857†	85297.5	84496.3	470.92 µg/L	470.92 ppb	01:31:44
3	Sc RADIAL	144017.2	144017.2	98.7 %		01:31:16
3	Al 396.153Radial†	26612.6	27029.2	4989.1 µg/L	4989.1 ppb	01:31:16
3	Ca 317.933Radial†	87344.0	87943.4	4898.8 µg/L	4898.8 ppb	01:31:16
3	Fe 238.204 Radial†	77641.1	78524.1	4839.7 µg/L	4839.7 ppb	01:31:16
3	K 766.490 Radial†	15113.2	13769.2	5037.1 µg/L	5037.1 ppb	01:31:16
3	Mg 279.077 IEC†	13475.2	13463.5	5023.8 µg/L	5023.8 ppb	01:31:16
3	Na 589.592 Radial†	71081.3	70734.5	9658.7 µg/L	9658.7 ppb	01:31:16
3	Sr 421.552†	230195.4	233387.7	485.16 µg/L	485.16 ppb	01:31:14
3	Sc 361.383	1737670.0	1737670.0	101.13 %		01:32:07
3	Y 371.029	1026144.0	1026144.0	99.947 %		01:32:07
3	Ag 328.068†	133325.2	127741.3	478.98 µg/L	478.98 ppb	01:32:07
3	As 188.979†	1614.3	1616.6	495.84 µg/L	495.84 ppb	01:32:27
3	B 249.677†	36063.6	32154.0	472.55 µg/L	472.55 ppb	01:32:07
3	Ba 233.527†	119791.6	118586.4	478.26 µg/L	478.26 ppb	01:32:07
3	Be 313.107†	1794420.6	1775397.7	483.54 µg/L	483.54 ppb	01:32:07
3	Cd 226.502†	76706.1	75965.7	474.21 µg/L	474.21 ppb	01:32:07
3	Co 228.616†	39092.4	38845.1	479.54 µg/L	479.54 ppb	01:32:07
3	Cr 267.716†	61552.9	60685.3	475.16 µg/L	475.16 ppb	01:32:07
3	Cu 324.752†	126672.9	122282.6	476.70 µg/L	476.70 ppb	01:32:07
3	Mn 257.610†	392785.8	388151.5	480.05 µg/L	480.05 ppb	01:32:07
3	Mo 202.031†	16368.2	16205.0	476.69 µg/L	476.69 ppb	01:32:27
3	Ni 331.604†	41743.6	41352.8	476.15 µg/L	476.15 ppb	01:32:07
3	P 214.914†	11241.9	11134.0	2373.1 µg/L	2373.1 ppb	01:32:27
3	Pb 220.353†	8768.9	8584.4	480.73 µg/L	480.73 ppb	01:32:27
3	S 181.975 Axial†	1366.4	1246.1	929.32 µg/L	929.32 ppb	01:32:27
3	Sb 206.836†	4129.1	4002.1	476.84 µg/L	476.84 ppb	01:32:27
3	Se 196.026†	1336.5	1306.3	474 µg/L	474 ppb	01:32:27
3	SiO2†	54817.6	52428.6	5104.0 µg/L	5104.0 ppb	01:32:07
3	Si 251.611†	165658.0	162967.0	2393.1 µg/L	2393.1 ppb	01:32:07
3	Sn 189.927†	7715.6	7630.3	477.28 µg/L	477.28 ppb	01:32:27
3	Ti 334.940†	519188.2	512423.6	478.12 µg/L	478.12 ppb	01:32:07
3	Tl 190.801†	3815.9	3889.9	485.12 µg/L	485.12 ppb	01:32:27
3	U 409.014†	7283.4	7471.8	465.86 µg/L	465.86 ppb	01:32:07
3	V 292.402†	98744.6	97235.4	480.66 µg/L	480.66 ppb	01:32:07
3	Zn 213.857†	86568.5	85035.0	473.94 µg/L	473.94 ppb	01:32:07

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1732710.1	100.84 %	0.489			0.49%
Sc RADIAL	143926.4	98.6 %	1.11			1.12%
Y 371.029	1023597.7	99.699 %	0.4797			0.48%
Ag 328.068†	127679.1	478.73 µg/L	1.007	478.73 ppb	1.007	0.21%
QC value within limits for Ag 328.068 Recovery = 95.75%						
Al 396.153Radial†	26959.0	4976.0 µg/L	18.89	4976.0 ppb	18.89	0.38%
QC value within limits for Al 396.153Radial Recovery = 99.52%						
As 188.979†	1622.4	497.59 µg/L	1.754	497.59 ppb	1.754	0.35%
QC value within limits for As 188.979 Recovery = 99.52%						
B 249.677†	32026.3	470.67 µg/L	1.854	470.67 ppb	1.854	0.39%
QC value within limits for B 249.677 Recovery = 94.13%						
Ba 233.527†	118481.8	477.83 µg/L	0.498	477.83 ppb	0.498	0.10%
QC value within limits for Ba 233.527 Recovery = 95.57%						
Be 313.107†	1771029.5	482.35 µg/L	1.202	482.35 ppb	1.202	0.25%
QC value within limits for Be 313.107 Recovery = 96.47%						
Ca 317.933Radial†	87760.9	4888.6 µg/L	17.65	4888.6 ppb	17.65	0.36%
QC value within limits for Ca 317.933Radial Recovery = 97.77%						
Cd 226.502†	76009.3	474.48 µg/L	1.907	474.48 ppb	1.907	0.40%
QC value within limits for Cd 226.502 Recovery = 94.90%						
Co 228.616†	38710.8	477.88 µg/L	1.828	477.88 ppb	1.828	0.38%

QC value within limits for Co 228.616	Recovery = 95.58%				
Cr 267.716†	60586.9	474.39 µg/L	1.096	474.39 ppb	0.23%
QC value within limits for Cr 267.716	Recovery = 94.88%				
Cu 324.752†	122133.4	476.11 µg/L	0.893	476.11 ppb	0.19%
QC value within limits for Cu 324.752	Recovery = 95.22%				
Fe 238.204 Radial†	78345.1	4828.7 µg/L	20.09	4828.7 ppb	0.42%
QC value within limits for Fe 238.204 Radial	Recovery = 96.57%				
K 766.490 Radial†	13708.9	5015.0 µg/L	20.81	5015.0 ppb	0.42%
QC value within limits for K 766.490 Radial	Recovery = 100.30%				
Mg 279.077 IEC†	13363.2	4986.5 µg/L	43.85	4986.5 ppb	0.88%
QC value within limits for Mg 279.077 IEC	Recovery = 99.73%				
Mn 257.610†	387755.6	479.56 µg/L	1.108	479.56 ppb	0.23%
QC value within limits for Mn 257.610	Recovery = 95.91%				
Mo 202.031†	16278.5	478.84 µg/L	2.702	478.84 ppb	0.56%
QC value within limits for Mo 202.031	Recovery = 95.77%				
Na 589.592 Radial†	70683.3	9651.7 µg/L	7.67	9651.7 ppb	0.08%
QC value within limits for Na 589.592 Radial	Recovery = 96.52%				
Ni 231.604†	41278.5	475.29 µg/L	0.805	475.29 ppb	0.17%
QC value within limits for Ni 231.604	Recovery = 95.06%				
P 214.914†	11190.9	2385.3 µg/L	13.71	2385.3 ppb	0.57%
QC value within limits for P 214.914	Recovery = 95.41%				
Pb 220.353†	8610.1	482.17 µg/L	3.492	482.17 ppb	0.72%
QC value within limits for Pb 220.353	Recovery = 96.43%				
S 181.975 Axial†	1256.9	937.36 µg/L	9.234	937.36 ppb	0.99%
QC value within limits for S 181.975 Axial	Recovery = 93.74%				
Sb 206.836†	4021.7	479.22 µg/L	2.786	479.22 ppb	0.58%
QC value within limits for Sb 206.836	Recovery = 95.84%				
Se 196.026†	1314.3	477 µg/L	3.1	477 ppb	0.65%
QC value within limits for Se 196.026	Recovery = 95.45%				
SiO2†	52384.6	5099.6 µg/L	16.25	5099.6 ppb	0.32%
QC value within limits for SiO2	Recovery = 95.36%				
Si 251.611†	162702.6	2389.2 µg/L	5.32	2389.2 ppb	0.22%
QC value within limits for Si 251.611	Recovery = 95.57%				
Sn 189.927†	7671.8	479.87 µg/L	3.150	479.87 ppb	0.66%
QC value within limits for Sn 189.927	Recovery = 95.97%				
Sr 421.552†	232002.6	482.28 µg/L	5.394	482.28 ppb	1.12%
QC value within limits for Sr 421.552	Recovery = 96.46%				
Ti 334.940†	512054.6	477.78 µg/L	0.622	477.78 ppb	0.13%
QC value within limits for Ti 334.940	Recovery = 95.56%				
Tl 190.801†	3920.8	488.92 µg/L	3.950	488.92 ppb	0.81%
QC value within limits for Tl 190.801	Recovery = 97.78%				
U 409.014†	7391.6	461.13 µg/L	8.265	461.13 ppb	1.79%
QC value within limits for U 409.014	Recovery = 92.23%				
V 292.402†	97082.1	479.92 µg/L	0.679	479.92 ppb	0.14%
QC value within limits for V 292.402	Recovery = 95.98%				
Zn 213.857†	84829.8	472.79 µg/L	1.636	472.79 ppb	0.35%
QC value within limits for Zn 213.857	Recovery = 94.56%				

All analyte(s) passed QC.

Sequence No.: 170

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 1:32:36

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	144650.2	144650.2	99.1 %		01:33:05
1	Al 396.153Radial†	55.6	119.3	22.113 µg/L	22.113 ppb	01:33:25
1	Ca 317.933Radial†	1021.9	470.4	26.200 µg/L	26.200 ppb	01:33:25
1	Fe 238.204 Radial†	306.2	160.8	9.9101 µg/L	9.9101 ppb	01:33:25
1	K 766.490 Radial†	1926.7	399.0	146.05 µg/L	146.05 ppb	01:33:05
1	Mg 279.077 IEC†	254.5	66.1	24.617 µg/L	24.617 ppb	01:33:25
1	Na 589.592 Radial†	1387.7	109.2	14.783 µg/L	14.783 ppb	01:33:05
1	Sr 421.552†	-207.2	-73.8	-0.1536 µg/L	-0.1536 ppb	01:33:05
1	Sc 361.383	1731773.4	1731773.4	100.79 %		01:34:13
1	Y 371.029	1034993.2	1034993.2	100.81 %		01:34:13
1	Ag 328.068†	4219.4	95.0	0.3480 µg/L	0.3480 ppb	01:34:15
1	As 188.979†	-14.9	5.6	1.6865 µg/L	1.6865 ppb	01:34:35
1	B 249.677†	3568.7	34.9	0.5127 µg/L	0.5127 ppb	01:34:15
1	Ba 233.527†	-137.0	-0.1	-0.0009 µg/L	-0.0009 ppb	01:34:35
1	Be 313.107†	-780.2	290.6	0.0800 µg/L	0.0800 ppb	01:34:15
1	Cd 226.502†	-91.2	27.8	0.1726 µg/L	0.1726 ppb	01:34:35
1	Co 228.616†	-160.4	31.2	0.3844 µg/L	0.3844 ppb	01:34:35
1	Cr 267.716†	211.8	31.6	0.2451 µg/L	0.2451 ppb	01:34:35
1	Cu 324.752†	2967.0	-28.5	-0.1059 µg/L	-0.1059 ppb	01:34:15
1	Mn 257.610†	310.1	70.4	0.0862 µg/L	0.0862 ppb	01:34:35
1	Mo 202.031†	-19.2	1.0	0.0313 µg/L	0.0313 ppb	01:34:35
1	Ni 231.604†	-38.5	38.4	0.4416 µg/L	0.4416 ppb	01:34:35
1	P 214.914†	-26.9	-8.7	-1.8628 µg/L	-1.8628 ppb	01:34:35
1	Pb 220.353†	65.3	-21.6	-1.2051 µg/L	-1.2051 ppb	01:34:35
1	S 181.975 Axial†	106.1	0.2	0.1331 µg/L	0.1331 ppb	01:34:35
1	Sb 206.836†	73.4	-8.0	-0.9578 µg/L	-0.9578 ppb	01:34:35
1	Se 196.026†	15.6	0.2	0.068 µg/L	0.068 ppb	01:34:35
1	SiO2†	1796.3	6.8	0.6595 µg/L	0.6595 ppb	01:34:35
1	Si 251.611†	840.5	-2.6	-0.0425 µg/L	-0.0425 ppb	01:34:15
1	Sn 189.927†	7.4	8.4	0.5243 µg/L	0.5243 ppb	01:34:35
1	Ti 334.940†	956.0	-4.0	-0.0063 µg/L	-0.0063 ppb	01:34:15
1	Tl 190.801†	-113.8	3.8	0.4619 µg/L	0.4619 ppb	01:34:35
1	U 409.014†	-221.8	49.8	2.8783 µg/L	2.8783 ppb	01:34:15
1	V 292.402†	291.0	-115.1	-0.5590 µg/L	-0.5590 ppb	01:34:15
1	Zn 213.857†	611.2	42.0	0.2323 µg/L	0.2323 ppb	01:34:35
2	Sc RADIAL	143480.2	143480.2	98.3 %		01:33:27
2	Al 396.153Radial†	35.4	99.2	18.400 µg/L	18.400 ppb	01:33:47
2	Ca 317.933Radial†	923.3	378.5	21.086 µg/L	21.086 ppb	01:33:47
2	Fe 238.204 Radial†	279.8	136.5	8.4133 µg/L	8.4133 ppb	01:33:47
2	K 766.490 Radial†	2033.7	523.6	191.70 µg/L	191.70 ppb	01:33:27
2	Mg 279.077 IEC†	230.6	43.8	16.325 µg/L	16.325 ppb	01:33:47
2	Na 589.592 Radial†	1388.8	121.8	16.463 µg/L	16.463 ppb	01:33:27
2	Sr 421.552†	-108.3	25.1	0.0520 µg/L	0.0520 ppb	01:33:27
2	Sc 361.383	1749816.9	1749816.9	101.84 %		01:34:37
2	Y 371.029	1045017.7	1045017.7	101.79 %		01:34:37
2	Ag 328.068†	4151.7	-14.6	-0.0529 µg/L	-0.0529 ppb	01:34:40
2	As 188.979†	-13.8	6.8	2.0524 µg/L	2.0524 ppb	01:35:00
2	B 249.677†	3626.5	55.1	0.8113 µg/L	0.8113 ppb	01:34:40
2	Ba 233.527†	-104.2	33.5	0.1349 µg/L	0.1349 ppb	01:35:00
2	Be 313.107†	-899.2	181.7	0.0507 µg/L	0.0507 ppb	01:34:40
2	Cd 226.502†	-104.7	15.4	0.0953 µg/L	0.0953 ppb	01:35:00
2	Co 228.616†	-169.5	23.9	0.2945 µg/L	0.2945 ppb	01:35:00
2	Cr 267.716†	201.1	18.9	0.1446 µg/L	0.1446 ppb	01:35:00
2	Cu 324.752†	2829.6	-193.8	-0.7479 µg/L	-0.7479 ppb	01:34:40
2	Mn 257.610†	297.6	54.9	0.0673 µg/L	0.0673 ppb	01:35:00
2	Mo 202.031†	-24.5	-4.0	-0.1177 µg/L	-0.1177 ppb	01:35:00
2	Ni 231.604†	-90.3	-12.1	-0.1396 µg/L	-0.1396 ppb	01:35:00
2	P 214.914†	-13.7	4.5	0.9779 µg/L	0.9779 ppb	01:35:00
2	Pb 220.353†	69.0	-18.6	-1.0426 µg/L	-1.0426 ppb	01:35:00

2	S 181.975 Axial†	90.5	-16.2	-12.038 µg/L	-12.038 ppb	01:35:00
2	Sb 206.836†	72.9	-9.3	-1.1038 µg/L	-1.1038 ppb	01:35:00
2	Se 196.026†	26.1	10.3	3.74 µg/L	3.74 ppb	01:35:00
2	SiO2†	1690.9	-115.0	-11.246 µg/L	-11.246 ppb	01:35:00
2	Si 251.611†	970.1	116.0	1.7095 µg/L	1.7095 ppb	01:34:40
2	Sn 189.927†	4.5	5.5	0.3461 µg/L	0.3461 ppb	01:35:00
2	Ti 334.940†	1033.1	61.9	0.0554 µg/L	0.0554 ppb	01:34:40
2	Tl 190.801†	-109.0	9.6	1.1795 µg/L	1.1795 ppb	01:35:00
2	U 409.014†	-207.0	66.6	3.8786 µg/L	3.8786 ppb	01:34:40
2	V 292.402†	361.7	-48.6	-0.2362 µg/L	-0.2362 ppb	01:34:40
2	Zn 213.857†	609.4	34.0	0.1917 µg/L	0.1917 ppb	01:35:00
3	Sc RADIAL	144046.9	144046.9	98.7 %		01:33:49
3	Al 396.153Radial†	17.0	80.4	14.927 µg/L	14.927 ppb	01:34:10
3	Ca 317.933Radial†	885.2	336.2	18.727 µg/L	18.727 ppb	01:34:10
3	Fe 238.204 Radial†	250.9	106.1	6.5367 µg/L	6.5367 ppb	01:34:10
3	K 766.490 Radial†	1975.4	456.4	167.09 µg/L	167.09 ppb	01:33:49
3	Mg 279.077 IEC†	216.2	28.3	10.536 µg/L	10.536 ppb	01:34:10
3	Na 589.592 Radial†	1284.3	10.3	1.2517 µg/L	1.2517 ppb	01:33:49
3	Sr 421.552†	-129.3	4.3	0.0087 µg/L	0.0087 ppb	01:33:49
3	Sc 361.383	1747720.5	1747720.5	101.72 %		01:35:02
3	Y 371.029	1042519.0	1042519.0	101.54 %		01:35:02
3	Ag 328.068†	4083.2	-77.1	-0.2760 µg/L	-0.2760 ppb	01:35:04
3	As 188.979†	-23.1	-2.4	-0.7100 µg/L	-0.7100 ppb	01:35:24
3	B 249.677†	3447.3	-116.8	-1.7241 µg/L	-1.7241 ppb	01:35:04
3	Ba 233.527†	-100.7	36.9	0.1482 µg/L	0.1482 ppb	01:35:24
3	Be 313.107†	-1007.0	74.7	0.0236 µg/L	0.0236 ppb	01:35:04
3	Cd 226.502†	-108.8	11.3	0.0697 µg/L	0.0697 ppb	01:35:24
3	Co 228.616†	-158.9	34.1	0.4206 µg/L	0.4206 ppb	01:35:24
3	Cr 267.716†	198.6	16.7	0.1225 µg/L	0.1225 ppb	01:35:24
3	Cu 324.752†	2971.0	-51.4	-0.1894 µg/L	-0.1894 ppb	01:35:04
3	Mn 257.610†	275.0	33.1	0.0405 µg/L	0.0405 ppb	01:35:24
3	Mo 202.031†	-29.3	-8.8	-0.2571 µg/L	-0.2571 ppb	01:35:24
3	Ni 231.604†	-102.1	-23.9	-0.2749 µg/L	-0.2749 ppb	01:35:24
3	P 214.914†	-27.0	-8.6	-1.8213 µg/L	-1.8213 ppb	01:35:24
3	Pb 220.353†	72.1	-15.5	-0.8740 µg/L	-0.8740 ppb	01:35:24
3	S 181.975 Axial†	95.4	-11.3	-8.3648 µg/L	-8.3648 ppb	01:35:24
3	Sb 206.836†	83.3	1.1	0.1275 µg/L	0.1275 ppb	01:35:24
3	Se 196.026†	15.1	-0.5	-0.158 µg/L	-0.158 ppb	01:35:24
3	SiO2†	1778.9	-26.5	-2.5941 µg/L	-2.5941 ppb	01:35:24
3	Si 251.611†	839.8	-10.9	-0.1611 µg/L	-0.1611 ppb	01:35:04
3	Sn 189.927†	6.7	7.7	0.4774 µg/L	0.4774 ppb	01:35:24
3	Ti 334.940†	921.8	-46.3	-0.0480 µg/L	-0.0480 ppb	01:35:04
3	Tl 190.801†	-117.9	0.8	0.0949 µg/L	0.0949 ppb	01:35:24
3	U 409.014†	-88.3	183.1	10.689 µg/L	10.689 ppb	01:35:04
3	V 292.402†	353.6	-56.1	-0.2694 µg/L	-0.2694 ppb	01:35:04
3	Zn 213.857†	615.1	40.3	0.2274 µg/L	0.2274 ppb	01:35:24

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1743103.6	101.45 %	0.574			0.57%
Sc RADIAL	144059.1	98.7 %	0.40			0.41%
Y 371.029	1040843.3	101.38 %	0.508			0.50%
Ag 328.068†	1.1	0.0064 µg/L	0.31617	0.0064 ppb	0.31617	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	99.6	18.480 µg/L	3.5934	18.480 ppb	3.5934	19.45%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.3	1.0096 µg/L	1.50042	1.0096 ppb	1.50042	148.61%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-9.0	-0.1334 µg/L	1.38566	-0.1334 ppb	1.38566	>999.9%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	23.4	0.0941 µg/L	0.08251	0.0941 ppb	0.08251	87.72%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	182.3	0.0514 µg/L	0.02823	0.0514 ppb	0.02823	54.91%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	395.0	22.004 µg/L	3.8206	22.004 ppb	3.8206	17.36%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	18.2	0.1125 µg/L	0.05357	0.1125 ppb	0.05357	47.61%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	29.7	0.3665 µg/L	0.06493	0.3665 ppb	0.06493	17.72%

Cr	267.716†	22.4	0.1708 µg/L	0.06537	0.1708 ppb	0.06537	38.28%
Cu	324.752†	-91.2	-0.3477 µg/L	0.34907	-0.3477 ppb	0.34907	100.39%
Fe	238.204 Radial†	134.5	8.2867 µg/L	1.69027	8.2867 ppb	1.69027	20.40%
K	766.490 Radial†	459.7	168.28 µg/L	22.848	168.28 ppb	22.848	13.58%
Mg	279.077 IEC†	46.1	17.159 µg/L	7.0777	17.159 ppb	7.0777	41.25%
Mn	257.610†	52.8	0.0647 µg/L	0.02293	0.0647 ppb	0.02293	35.46%
Mo	202.031†	-3.9	-0.1145 µg/L	0.14420	-0.1145 ppb	0.14420	125.93%
Na	589.592 Radial†	80.4	10.833 µg/L	8.3397	10.833 ppb	8.3397	76.99%
Ni	231.604†	0.8	0.0091 µg/L	0.38069	0.0091 ppb	0.38069	>999.9%
P	214.914†	-4.3	-0.9020 µg/L	1.62822	-0.9020 ppb	1.62822	180.50%
Pb	220.353†	-18.6	-1.0406 µg/L	0.16556	-1.0406 ppb	0.16556	15.91%
S	181.975 Axial†	-9.1	-6.7567 µg/L	6.24300	-6.7567 ppb	6.24300	92.40%
Sb	206.836†	-5.4	-0.6447 µg/L	0.67274	-0.6447 ppb	0.67274	104.35%
Se	196.026†	3.3	1.22 µg/L	2.190	1.22 ppb	2.190	179.88%
SiO2†		-44.9	-4.3935 µg/L	6.15338	-4.3935 ppb	6.15338	140.06%
Si	251.611†	34.1	0.5020 µg/L	1.04746	0.5020 ppb	1.04746	208.67%
Sn	189.927†	7.2	0.4493 µg/L	0.09239	0.4493 ppb	0.09239	20.57%
Sr	421.552†	-14.8	-0.0310 µg/L	0.10839	-0.0310 ppb	0.10839	350.04%
Ti	334.940†	3.9	0.0003 µg/L	0.05203	0.0003 ppb	0.05203	>999.9%
Tl	190.801†	4.7	0.5788 µg/L	0.55162	0.5788 ppb	0.55162	95.31%
U	409.014†	99.8	5.8153 µg/L	4.25029	5.8153 ppb	4.25029	73.09%
V	292.402†	-73.3	-0.3549 µg/L	0.17756	-0.3549 ppb	0.17756	50.04%
Zn	213.857†	38.8	0.2171 µg/L	0.02218	0.2171 ppb	0.02218	10.22%

QC value within limits for Co 228.616 Recovery = Not calculated

QC value within limits for Cr 267.716 Recovery = Not calculated

QC value within limits for Cu 324.752 Recovery = Not calculated

QC value within limits for Fe 238.204 Radial Recovery = Not calculated

QC value greater than the upper limit for K 766.490 Radial Recovery = Not calculated

QC value within limits for Mg 279.077 IEC Recovery = Not calculated

QC value within limits for Mn 257.610 Recovery = Not calculated

QC value within limits for Mo 202.031 Recovery = Not calculated

QC value within limits for Na 589.592 Radial Recovery = Not calculated

QC value within limits for Ni 231.604 Recovery = Not calculated

QC value within limits for P 214.914 Recovery = Not calculated

QC value within limits for Pb 220.353 Recovery = Not calculated

QC value within limits for S 181.975 Axial Recovery = Not calculated

QC value within limits for Sb 206.836 Recovery = Not calculated

QC value within limits for Se 196.026 Recovery = Not calculated

QC value within limits for SiO2 Recovery = Not calculated

QC value within limits for Si 251.611 Recovery = Not calculated

QC value within limits for Sn 189.927 Recovery = Not calculated

QC value within limits for Sr 421.552 Recovery = Not calculated

QC value within limits for Ti 334.940 Recovery = Not calculated

QC value within limits for Tl 190.801 Recovery = Not calculated

QC value within limits for U 409.014 Recovery = Not calculated

QC value within limits for V 292.402 Recovery = Not calculated

QC value within limits for Zn 213.857 Recovery = Not calculated

QC Failed. Continue with analysis.



Sequence No.: 178

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 1:53:27

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	144889.1	144889.1	99.3 %		01:54:01
1	Al 396.153Radial†	26444.1	26697.2	4927.6 µg/L	4927.6 ppb	01:54:01
1	Ca 317.933Radial†	86941.0	87004.9	4846.5 µg/L	4846.5 ppb	01:54:01
1	Fe 238.204 Radial†	77758.3	78168.7	4817.8 µg/L	4817.8 ppb	01:54:01
1	K 766.490 Radial†	14897.6	13459.8	4923.9 µg/L	4923.9 ppb	01:54:01
1	Mg 279.077 IEC†	13366.3	13271.6	4952.3 µg/L	4952.3 ppb	01:54:01
1	Na 589.592 Radial†	71709.3	70933.5	9686.0 µg/L	9686.0 ppb	01:54:01
1	Sr 421.552†	230601.0	232392.6	483.09 µg/L	483.09 ppb	01:53:59
1	Sc 361.383	1732100.0	1732100.0	100.81 %		01:54:28
1	Y 371.029	1023099.6	1023099.6	99.650 %		01:54:28
1	Ag 328.068†	133137.6	127979.1	479.85 µg/L	479.85 ppb	01:54:28
1	As 188.979†	1612.3	1619.7	496.76 µg/L	496.76 ppb	01:54:48
1	B 249.677†	35874.9	32081.5	471.48 µg/L	471.48 ppb	01:54:28
1	Ba 233.527†	119611.7	118788.9	479.07 µg/L	479.07 ppb	01:54:28
1	Be 313.107†	1788545.3	1775275.2	483.50 µg/L	483.50 ppb	01:54:28
1	Cd 226.502†	76870.4	76372.5	476.75 µg/L	476.75 ppb	01:54:28
1	Co 228.616†	38991.6	38869.4	479.84 µg/L	479.84 ppb	01:54:28
1	Cr 267.716†	61212.0	60542.8	474.05 µg/L	474.05 ppb	01:54:28
1	Cu 324.752†	126385.1	122399.9	477.14 µg/L	477.14 ppb	01:54:28
1	Mn 257.610†	391844.9	388467.0	480.44 µg/L	480.44 ppb	01:54:28
1	Mo 202.031†	16253.3	16143.1	474.86 µg/L	474.86 ppb	01:54:48
1	Ni 231.604†	41701.3	41443.5	477.19 µg/L	477.19 ppb	01:54:28
1	P 214.914†	11179.5	11107.9	2367.6 µg/L	2367.6 ppb	01:54:48
1	Pb 220.353†	8738.5	8582.1	480.59 µg/L	480.59 ppb	01:54:48
1	S 181.975 Axial†	1413.8	1297.4	967.45 µg/L	967.45 ppb	01:54:48
1	Sb 206.836†	4129.4	4015.5	478.42 µg/L	478.42 ppb	01:54:48
1	Se 196.026†	1321.4	1295.6	470 µg/L	470 ppb	01:54:48
1	SiO2†	54758.0	52543.7	5115.3 µg/L	5115.3 ppb	01:54:28
1	Si 251.611†	165491.5	163328.5	2398.5 µg/L	2398.5 ppb	01:54:28
1	Sn 189.927†	7680.8	7620.3	476.66 µg/L	476.66 ppb	01:54:48
1	Ti 334.940†	517868.9	512765.7	478.45 µg/L	478.45 ppb	01:54:28
1	Tl 190.801†	3805.2	3891.4	485.31 µg/L	485.31 ppb	01:54:48
1	U 409.014†	7130.8	7343.6	458.38 µg/L	458.38 ppb	01:54:28
1	V 292.402†	98453.8	97260.9	480.75 µg/L	480.75 ppb	01:54:28
1	Zn 213.857†	86275.4	85019.5	473.84 µg/L	473.84 ppb	01:54:28
2	Sc RADIAL	144090.9	144090.9	98.7 %		01:54:05
2	Al 396.153Radial†	26312.9	26711.9	4930.1 µg/L	4930.1 ppb	01:54:05
2	Ca 317.933Radial†	86199.8	86739.3	4831.7 µg/L	4831.7 ppb	01:54:05
2	Fe 238.204 Radial†	77277.1	78115.2	4814.5 µg/L	4814.5 ppb	01:54:05
2	K 766.490 Radial†	14795.3	13439.4	4916.4 µg/L	4916.4 ppb	01:54:05
2	Mg 279.077 IEC†	13254.1	13232.5	4937.8 µg/L	4937.8 ppb	01:54:05
2	Na 589.592 Radial†	71224.5	70842.7	9673.6 µg/L	9673.6 ppb	01:54:05
2	Sr 421.552†	226568.0	229594.7	477.28 µg/L	477.28 ppb	01:54:03
2	Sc 361.383	1743024.7	1743024.7	101.44 %		01:54:51
2	Y 371.029	1028485.3	1028485.3	100.17 %		01:54:51
2	Ag 328.068†	133695.0	127700.8	478.84 µg/L	478.84 ppb	01:54:51
2	As 188.979†	1633.2	1630.3	499.98 µg/L	499.98 ppb	01:55:11
2	B 249.677†	35991.2	31973.1	469.88 µg/L	469.88 ppb	01:54:51
2	Ba 233.527†	120399.9	118822.2	479.21 µg/L	479.21 ppb	01:54:51
2	Be 313.107†	1803686.2	1779080.5	484.55 µg/L	484.55 ppb	01:54:51
2	Cd 226.502†	77645.9	76659.1	478.54 µg/L	478.54 ppb	01:54:51
2	Co 228.616†	39225.9	38858.0	479.70 µg/L	479.70 ppb	01:54:51
2	Cr 267.716†	61891.8	60832.4	476.31 µg/L	476.31 ppb	01:54:51
2	Cu 324.752†	127393.6	122608.3	477.96 µg/L	477.96 ppb	01:54:51
2	Mn 257.610†	395069.2	389209.2	481.36 µg/L	481.36 ppb	01:54:51
2	Mo 202.031†	16503.6	16288.8	479.15 µg/L	479.15 ppb	01:55:11
2	Ni 231.604†	41973.3	41452.5	477.30 µg/L	477.30 ppb	01:54:51
2	P 214.914†	11383.8	11239.8	2395.8 µg/L	2395.8 ppb	01:55:11
2	Pb 220.353†	8825.3	8613.3	482.34 µg/L	482.34 ppb	01:55:11

2	S 181.975 Axial†	1446.2	1320.5	984.64 µg/L	984.64 ppb	01:55:11
2	Sb 206.836†	4171.5	4031.4	480.35 µg/L	480.35 ppb	01:55:11
2	Se 196.026†	1358.8	1324.1	481 µg/L	481 ppb	01:55:11
2	SiO2†	55126.8	52566.8	5117.4 µg/L	5117.4 ppb	01:54:51
2	Si 251.611†	166831.3	163620.3	2402.7 µg/L	2402.7 ppb	01:54:51
2	Sn 189.927†	7808.6	7698.6	481.54 µg/L	481.54 ppb	01:55:11
2	Ti 334.940†	521492.7	513118.1	478.77 µg/L	478.77 ppb	01:54:51
2	Tl 190.801†	3856.9	3918.7	488.67 µg/L	488.67 ppb	01:55:11
2	U 409.014†	7461.6	7625.3	474.87 µg/L	474.87 ppb	01:54:51
2	V 292.402†	99126.3	97311.7	481.07 µg/L	481.07 ppb	01:54:51
2	Zn 213.857†	86941.8	85140.0	474.52 µg/L	474.52 ppb	01:54:51
3	Sc RADIAL	143189.9	143189.9	98.1 %		01:54:09
3	Al 396.153Radial†	26288.8	26855.0	4956.7 µg/L	4956.7 ppb	01:54:09
3	Ca 317.933Radial†	85899.6	86982.7	4845.3 µg/L	4845.3 ppb	01:54:09
3	Fe 238.204 Radial†	76674.9	77993.9	4807.1 µg/L	4807.1 ppb	01:54:09
3	K 766.490 Radial†	14694.1	13430.5	4913.1 µg/L	4913.1 ppb	01:54:09
3	Mg 279.077 IEC†	13109.4	13169.5	4914.3 µg/L	4914.3 ppb	01:54:09
3	Na 589.592 Radial†	71187.8	71259.1	9730.5 µg/L	9730.5 ppb	01:54:09
3	Sr 421.552†	229587.3	234115.6	486.67 µg/L	486.67 ppb	01:54:07
3	Sc 361.383	1732756.5	1732756.5	100.85 %		01:55:14
3	Y 371.029	1023226.1	1023226.1	99.663 %		01:55:14
3	Ag 328.068†	132868.9	127662.6	478.70 µg/L	478.70 ppb	01:55:14
3	As 188.979†	1613.1	1619.9	496.83 µg/L	496.83 ppb	01:55:34
3	B 249.677†	36177.8	32368.3	475.71 µg/L	475.71 ppb	01:55:14
3	Ba 233.527†	119703.3	118834.8	479.26 µg/L	479.26 ppb	01:55:14
3	Be 313.107†	1791615.1	1777647.1	484.16 µg/L	484.16 ppb	01:55:14
3	Cd 226.502†	76911.2	76384.1	476.82 µg/L	476.82 ppb	01:55:14
3	Co 228.616†	38990.6	38853.8	479.65 µg/L	479.65 ppb	01:55:14
3	Cr 267.716†	61496.0	60801.5	476.06 µg/L	476.06 ppb	01:55:14
3	Cu 324.752†	126455.9	122422.6	477.24 µg/L	477.24 ppb	01:55:14
3	Mn 257.610†	392850.6	389317.1	481.49 µg/L	481.49 ppb	01:55:14
3	Mo 202.031†	16363.5	16246.3	477.90 µg/L	477.90 ppb	01:55:34
3	Ni 231.604†	41768.3	41494.4	477.78 µg/L	477.78 ppb	01:55:14
3	P 214.914†	11227.0	11150.7	2376.7 µg/L	2376.7 ppb	01:55:34
3	Pb 220.353†	8769.4	8609.4	482.12 µg/L	482.12 ppb	01:55:34
3	S 181.975 Axial†	1409.8	1292.9	964.13 µg/L	964.13 ppb	01:55:34
3	Sb 206.836†	4149.1	4033.4	480.58 µg/L	480.58 ppb	01:55:34
3	Se 196.026†	1348.9	1322.3	480 µg/L	480 ppb	01:55:34
3	SiO2†	54793.8	52558.7	5116.7 µg/L	5116.7 ppb	01:55:14
3	Si 251.611†	165958.9	163729.8	2404.3 µg/L	2404.3 ppb	01:55:14
3	Sn 189.927†	7740.4	7676.6	480.17 µg/L	480.17 ppb	01:55:34
3	Ti 334.940†	518815.4	513509.7	479.14 µg/L	479.14 ppb	01:55:14
3	Tl 190.801†	3816.6	3901.3	486.54 µg/L	486.54 ppb	01:55:34
3	U 409.014†	7409.2	7616.9	474.38 µg/L	474.38 ppb	01:55:14
3	V 292.402†	98541.2	97310.6	481.05 µg/L	481.05 ppb	01:55:14
3	Zn 213.857†	86396.5	85107.2	474.34 µg/L	474.34 ppb	01:55:14

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1735960.4	101.03 %	0.357			0.35%
Sc RADIAL	144056.6	98.7 %	0.58			0.59%
Y 371.029	1024937.0	99.829 %	0.2994			0.30%
Ag 328.068†	127780.9	479.13 µg/L	0.627	479.13 ppb	0.627	0.13%
QC value within limits for Ag 328.068 Recovery = 95.83%						
Al 396.153Radial†	26754.7	4938.1 µg/L	16.14	4938.1 ppb	16.14	0.33%
QC value within limits for Al 396.153Radial Recovery = 98.76%						
As 188.979†	1623.3	497.86 µg/L	1.841	497.86 ppb	1.841	0.37%
QC value within limits for As 188.979 Recovery = 99.57%						
B 249.677†	32141.0	472.36 µg/L	3.012	472.36 ppb	3.012	0.64%
QC value within limits for B 249.677 Recovery = 94.47%						
Ba 233.527†	118815.3	479.18 µg/L	0.096	479.18 ppb	0.096	0.02%
QC value within limits for Ba 233.527 Recovery = 95.84%						
Be 313.107†	1777334.3	484.07 µg/L	0.526	484.07 ppb	0.526	0.11%
QC value within limits for Be 313.107 Recovery = 96.81%						
Ca 317.933Radial†	86909.0	4841.2 µg/L	8.21	4841.2 ppb	8.21	0.17%
QC value within limits for Ca 317.933Radial Recovery = 96.82%						
Cd 226.502†	76471.9	477.37 µg/L	1.013	477.37 ppb	1.013	0.21%
QC value within limits for Cd 226.502 Recovery = 95.47%						
Co 228.616†	38860.4	479.73 µg/L	0.099	479.73 ppb	0.099	0.02%

QC value within limits for Co 228.616 Recovery = 95.95%							
Cr 267.716†	60725.6	475.47 µg/L	1.238	475.47 ppb	1.238	0.26%	
QC value within limits for Cr 267.716 Recovery = 95.09%							
Cu 324.752†	122476.9	477.45 µg/L	0.449	477.45 ppb	0.449	0.09%	
QC value within limits for Cu 324.752 Recovery = 95.49%							
Fe 238.204 Radial†	78092.6	4813.1 µg/L	5.52	4813.1 ppb	5.52	0.11%	
QC value within limits for Fe 238.204 Radial Recovery = 96.26%							
K 766.490 Radial†	13443.2	4917.8 µg/L	5.50	4917.8 ppb	5.50	0.11%	
QC value within limits for K 766.490 Radial Recovery = 98.36%							
Mg 279.077 IEC†	13224.5	4934.8 µg/L	19.15	4934.8 ppb	19.15	0.39%	
QC value within limits for Mg 279.077 IEC Recovery = 98.70%							
Mn 257.610†	388997.8	481.10 µg/L	0.573	481.10 ppb	0.573	0.12%	
QC value within limits for Mn 257.610 Recovery = 96.22%							
Mo 202.031†	16226.1	477.30 µg/L	2.201	477.30 ppb	2.201	0.46%	
QC value within limits for Mo 202.031 Recovery = 95.46%							
Na 589.592 Radial†	71011.8	9696.7 µg/L	29.92	9696.7 ppb	29.92	0.31%	
QC value within limits for Na 589.592 Radial Recovery = 96.97%							
Ni 231.604†	41463.5	477.42 µg/L	0.312	477.42 ppb	0.312	0.07%	
QC value within limits for Ni 231.604 Recovery = 95.48%							
P 214.914†	11166.1	2380.0 µg/L	14.38	2380.0 ppb	14.38	0.60%	
QC value within limits for P 214.914 Recovery = 95.20%							
Pb 220.353†	8601.6	481.68 µg/L	0.950	481.68 ppb	0.950	0.20%	
QC value within limits for Pb 220.353 Recovery = 96.34%							
S 181.975 Axial†	1303.6	972.07 µg/L	11.009	972.07 ppb	11.009	1.13%	
QC value within limits for S 181.975 Axial Recovery = 97.21%							
Sb 206.836†	4026.7	479.79 µg/L	1.184	479.79 ppb	1.184	0.25%	
QC value within limits for Sb 206.836 Recovery = 95.96%							
Se 196.026†	1314.0	477 µg/L	5.8	477 ppb	5.8	1.21%	
QC value within limits for Se 196.026 Recovery = 95.43%							
SiO2†	52556.4	5116.5 µg/L	1.05	5116.5 ppb	1.05	0.02%	
QC value within limits for SiO2 Recovery = 95.68%							
Si 251.611†	163559.6	2401.8 µg/L	3.02	2401.8 ppb	3.02	0.13%	
QC value within limits for Si 251.611 Recovery = 96.07%							
Sn 189.927†	7665.2	479.46 µg/L	2.517	479.46 ppb	2.517	0.53%	
QC value within limits for Sn 189.927 Recovery = 95.89%							
Sr 421.552†	232034.3	482.35 µg/L	4.743	482.35 ppb	4.743	0.98%	
QC value within limits for Sr 421.552 Recovery = 96.47%							
Ti 334.940†	513131.2	478.79 µg/L	0.346	478.79 ppb	0.346	0.07%	
QC value within limits for Ti 334.940 Recovery = 95.76%							
Tl 190.801†	3903.8	486.84 µg/L	1.702	486.84 ppb	1.702	0.35%	
QC value within limits for Tl 190.801 Recovery = 97.37%							
U 409.014†	7528.6	469.21 µg/L	9.385	469.21 ppb	9.385	2.00%	
QC value within limits for U 409.014 Recovery = 93.84%							
V 292.402†	97294.4	480.96 µg/L	0.176	480.96 ppb	0.176	0.04%	
QC value within limits for V 292.402 Recovery = 96.19%							
Zn 213.857†	85088.9	474.23 µg/L	0.349	474.23 ppb	0.349	0.07%	
QC value within limits for Zn 213.857 Recovery = 94.85%							

All analyte(s) passed QC.

Sequence No.: 179

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 1:55:42

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	145551.6	145551.6	99.7 %		01:56:11
1	Al 396.153Radial†	-65.8	-2.8	-0.5143 µg/L	-0.5143 ppb	01:56:31
1	Ca 317.933Radial†	666.6	107.8	6.0037 µg/L	6.0037 ppb	01:56:31
1	Fe 238.204 Radial†	142.8	-5.0	-0.3060 µg/L	-0.3060 ppb	01:56:31
1	K 766.490 Radial†	1839.3	299.3	109.59 µg/L	109.59 ppb	01:56:11
1	Mg 279.077 IEC†	181.2	-9.0	-3.3548 µg/L	-3.3548 ppb	01:56:31
1	Na 589.592 Radial†	1588.0	301.3	41.070 µg/L	41.070 ppb	01:56:11
1	Sr 421.552†	-333.1	-198.7	-0.4132 µg/L	-0.4132 ppb	01:56:11
1	Sc 361.383	1751779.3	1751779.3	101.95 %		01:57:33
1	Y 371.029	1045514.8	1045514.8	101.83 %		01:57:33
1	Ag 328.068†	4128.8	-41.7	-0.1593 µg/L	-0.1593 ppb	01:57:35
1	As 188.979†	-12.8	7.8	2.3692 µg/L	2.3692 ppb	01:57:55
1	B 249.677†	3541.5	-32.3	-0.4767 µg/L	-0.4767 ppb	01:57:35
1	Ba 233.527†	-108.9	29.0	0.1170 µg/L	0.1170 ppb	01:57:55
1	Be 313.107†	-1073.9	11.4	0.0014 µg/L	0.0014 ppb	01:57:35
1	Cd 226.502†	-112.0	8.4	0.0522 µg/L	0.0522 ppb	01:57:55
1	Co 228.616†	-179.5	14.2	0.1753 µg/L	0.1753 ppb	01:57:55
1	Cr 267.716†	181.7	-0.3	0.0020 µg/L	0.0020 ppb	01:57:55
1	Cu 324.752†	3003.9	-25.8	-0.1050 µg/L	-0.1050 ppb	01:57:35
1	Mn 257.610†	273.3	30.8	0.0383 µg/L	0.0383 ppb	01:57:55
1	Mo 202.031†	-22.7	-2.2	-0.0633 µg/L	-0.0633 ppb	01:57:55
1	Ni 231.604†	-96.5	-18.1	-0.2088 µg/L	-0.2088 ppb	01:57:55
1	P 214.914†	-18.3	0.0	0.0166 µg/L	0.0166 ppb	01:57:55
1	Pb 220.353†	65.4	-22.2	-1.2353 µg/L	-1.2353 ppb	01:57:55
1	S 181.975 Axial†	114.5	7.3	5.3871 µg/L	5.3871 ppb	01:57:55
1	Sb 206.836†	62.6	-19.4	-2.3048 µg/L	-2.3048 ppb	01:57:55
1	Se 196.026†	0.8	-14.5	-5.25 µg/L	-5.25 ppb	01:57:55
1	SiO2†	1800.8	-9.1	-0.8957 µg/L	-0.8957 ppb	01:57:35
1	Si 251.611†	889.3	35.7	0.5242 µg/L	0.5242 ppb	01:57:35
1	Sn 189.927†	7.5	8.5	0.5302 µg/L	0.5302 ppb	01:57:55
1	Ti 334.940†	969.2	-1.9	0.0010 µg/L	0.0010 ppb	01:57:35
1	Tl 190.801†	-112.3	6.6	0.8079 µg/L	0.8079 ppb	01:57:55
1	U 409.014†	-372.7	-95.6	-5.5813 µg/L	-5.5813 ppb	01:57:35
1	V 292.402†	449.1	36.7	0.1747 µg/L	0.1747 ppb	01:57:35
1	Zn 213.857†	603.1	27.2	0.1540 µg/L	0.1540 ppb	01:57:55
2	Sc RADIAL	142463.2	142463.2	97.6 %		01:56:33
2	Al 396.153Radial†	-76.0	-14.7	-2.7386 µg/L	-2.7386 ppb	01:56:53
2	Ca 317.933Radial†	631.4	86.2	4.8021 µg/L	4.8021 ppb	01:56:53
2	Fe 238.204 Radial†	165.0	20.9	1.2889 µg/L	1.2889 ppb	01:56:53
2	K 766.490 Radial†	1754.3	252.2	92.343 µg/L	92.343 ppb	01:56:33
2	Mg 279.077 IEC†	178.3	-8.0	-2.9828 µg/L	-2.9828 ppb	01:56:53
2	Na 589.592 Radial†	1488.6	234.0	31.890 µg/L	31.890 ppb	01:56:33
2	Sr 421.552†	-267.3	-138.5	-0.2880 µg/L	-0.2880 ppb	01:56:33
2	Sc 361.383	1744511.1	1744511.1	101.53 %		01:57:57
2	Y 371.029	1040880.2	1040880.2	101.38 %		01:57:57
2	Ag 328.068†	4095.8	-57.3	-0.2333 µg/L	-0.2333 ppb	01:58:00
2	As 188.979†	-19.9	0.8	0.2405 µg/L	0.2405 ppb	01:58:20
2	B 249.677†	3689.6	128.1	1.8892 µg/L	1.8892 ppb	01:58:00
2	Ba 233.527†	-127.7	10.1	0.0404 µg/L	0.0404 ppb	01:58:20
2	Be 313.107†	-779.7	296.7	0.0769 µg/L	0.0769 ppb	01:58:00
2	Cd 226.502†	-116.8	3.2	0.0196 µg/L	0.0196 ppb	01:58:20
2	Co 228.616†	-181.5	11.6	0.1430 µg/L	0.1430 ppb	01:58:20
2	Cr 267.716†	210.9	29.2	0.2383 µg/L	0.2383 ppb	01:58:20
2	Cu 324.752†	3046.1	27.9	0.0982 µg/L	0.0982 ppb	01:58:00
2	Mn 257.610†	284.4	42.8	0.0531 µg/L	0.0531 ppb	01:58:20
2	Mo 202.031†	-4.2	15.9	0.4681 µg/L	0.4681 ppb	01:58:20
2	Ni 231.604†	-89.6	-11.8	-0.1354 µg/L	-0.1354 ppb	01:58:20
2	P 214.914†	-29.1	-10.7	-2.2834 µg/L	-2.2834 ppb	01:58:20
2	Pb 220.353†	83.5	-4.1	-0.2188 µg/L	-0.2188 ppb	01:58:20

2	S 181.975 Axial†	133.9	26.8	19.886 µg/L	19.886 ppb	01:58:20
2	Sb 206.836†	67.1	-14.7	-1.7443 µg/L	-1.7443 ppb	01:58:20
2	Se 196.026†	24.1	8.4	3.04 µg/L	3.04 ppb	01:58:20
2	SiO2†	1798.4	-4.0	-0.4169 µg/L	-0.4169 ppb	01:58:00
2	Si 251.611†	966.5	115.4	1.6906 µg/L	1.6906 ppb	01:58:00
2	Sn 189.927†	9.5	10.5	0.6536 µg/L	0.6536 ppb	01:58:20
2	Ti 334.940†	894.2	-71.8	-0.0616 µg/L	-0.0616 ppb	01:58:00
2	Tl 190.801†	-110.7	7.6	0.9340 µg/L	0.9340 ppb	01:58:20
2	U 409.014†	-495.6	-218.2	-12.786 µg/L	-12.786 ppb	01:58:00
2	V 292.402†	320.0	-88.6	-0.4349 µg/L	-0.4349 ppb	01:58:00
2	Zn 213.857†	606.1	32.5	0.1834 µg/L	0.1834 ppb	01:58:20
3	Sc RADIAL	143784.8	143784.8	98.5 %		01:56:55
3	Al 396.153Radial†	-72.4	-10.2	-1.8918 µg/L	-1.8918 ppb	01:57:15
3	Ca 317.933Radial†	626.3	75.1	4.1820 µg/L	4.1820 ppb	01:57:15
3	Fe 238.204 Radial†	157.5	11.8	0.7268 µg/L	0.7268 ppb	01:57:15
3	K 766.490 Radial†	1711.0	191.8	70.214 µg/L	70.214 ppb	01:56:55
3	Mg 279.077 IEC†	214.1	26.6	9.9191 µg/L	9.9191 ppb	01:57:15
3	Na 589.592 Radial†	1356.1	85.6	11.626 µg/L	11.626 ppb	01:56:55
3	Sr 421.552†	-269.5	-138.2	-0.2874 µg/L	-0.2874 ppb	01:56:55
3	Sc 361.383	1767911.3	1767911.3	102.89 %		01:58:22
3	Y 371.029	1054011.1	1054011.1	102.66 %		01:58:22
3	Ag 328.068†	4196.4	-13.0	-0.0637 µg/L	-0.0637 ppb	01:58:24
3	As 188.979†	-5.7	14.8	4.4830 µg/L	4.4830 ppb	01:58:44
3	B 249.677†	3663.7	54.9	0.8087 µg/L	0.8087 ppb	01:58:24
3	Ba 233.527†	-114.6	24.5	0.0982 µg/L	0.0982 ppb	01:58:44
3	Be 313.107†	-1093.4	2.1	-0.0012 µg/L	-0.0012 ppb	01:58:24
3	Cd 226.502†	-92.8	28.0	0.1751 µg/L	0.1751 ppb	01:58:44
3	Co 228.616†	-185.7	9.8	0.1208 µg/L	0.1208 ppb	01:58:44
3	Cr 267.716†	201.6	17.3	0.1401 µg/L	0.1401 ppb	01:58:44
3	Cu 324.752†	2911.8	-142.3	-0.5572 µg/L	-0.5572 ppb	01:58:24
3	Mn 257.610†	263.8	19.2	0.0233 µg/L	0.0233 ppb	01:58:44
3	Mo 202.031†	-26.6	-5.8	-0.1698 µg/L	-0.1698 ppb	01:58:44
3	Ni 231.604†	-69.8	8.7	0.0998 µg/L	0.0998 ppb	01:58:44
3	P 214.914†	-16.2	2.2	0.4867 µg/L	0.4867 ppb	01:58:44
3	Pb 220.353†	83.9	-4.8	-0.2669 µg/L	-0.2669 ppb	01:58:44
3	S 181.975 Axial†	120.1	11.7	8.6560 µg/L	8.6560 ppb	01:58:44
3	Sb 206.836†	85.7	2.5	0.2913 µg/L	0.2913 ppb	01:58:44
3	Se 196.026†	9.9	-5.6	-2.04 µg/L	-2.04 ppb	01:58:44
3	SiO2†	1848.3	21.0	2.0528 µg/L	2.0528 ppb	01:58:24
3	Si 251.611†	874.0	12.9	0.1899 µg/L	0.1899 ppb	01:58:24
3	Sn 189.927†	4.6	5.5	0.3453 µg/L	0.3453 ppb	01:58:44
3	Ti 334.940†	814.2	-161.2	-0.1490 µg/L	-0.1490 ppb	01:58:24
3	Tl 190.801†	-128.8	-8.5	-1.0474 µg/L	-1.0474 ppb	01:58:44
3	U 409.014†	-381.6	-101.0	-5.9442 µg/L	-5.9442 ppb	01:58:24
3	V 292.402†	270.2	-141.1	-0.6936 µg/L	-0.6936 ppb	01:58:24
3	Zn 213.857†	596.7	15.5	0.0866 µg/L	0.0866 ppb	01:58:44

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1754733.9	102.13 %		0.697			0.68%
Sc RADIAL	143933.2	98.6 %		1.06			1.08%
Y 371.029	1046802.0	101.96 %		0.649			0.64%
Ag 328.068†	-37.3	-0.1521 µg/L		0.08501	-0.1521 ppb	0.08501	55.89%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-9.2	-1.7149 µg/L		1.12269	-1.7149 ppb	1.12269	65.47%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	7.8	2.3642 µg/L		2.12124	2.3642 ppb	2.12124	89.72%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	50.2	0.7404 µg/L		1.18445	0.7404 ppb	1.18445	159.98%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	21.2	0.0852 µg/L		0.03992	0.0852 ppb	0.03992	46.87%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	103.4	0.0257 µg/L		0.04438	0.0257 ppb	0.04438	172.67%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	89.7	4.9959 µg/L		0.92619	4.9959 ppb	0.92619	18.54%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	13.2	0.0823 µg/L		0.08201	0.0823 ppb	0.08201	99.61%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	11.9	0.1464 µg/L		0.02744	0.1464 ppb	0.02744	18.74%

Cr	267.716†	15.4	0.1268 µg/L	0.11872	0.1268 ppb	0.11872	93.63%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-46.7	-0.1880 µg/L	0.33551	-0.1880 ppb	0.33551	178.43%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	9.2	0.5699 µg/L	0.80892	0.5699 ppb	0.80892	141.94%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	247.8	90.715 µg/L	19.7374	90.715 ppb	19.7374	21.76%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	3.2	1.1938 µg/L	7.55858	1.1938 ppb	7.55858	633.14%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	30.9	0.0382 µg/L	0.01490	0.0382 ppb	0.01490	38.98%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	2.7	0.0783 µg/L	0.34173	0.0783 ppb	0.34173	436.17%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	207.0	28.195 µg/L	15.0656	28.195 ppb	15.0656	53.43%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-7.1	-0.0815 µg/L	0.16123	-0.0815 ppb	0.16123	197.84%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-2.8	-0.5934 µg/L	1.48237	-0.5934 ppb	1.48237	249.82%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-10.4	-0.5737 µg/L	0.57348	-0.5737 ppb	0.57348	99.97%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	15.2	11.310 µg/L	7.6051	11.310 ppb	7.6051	67.24%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	-10.5	-1.2526 µg/L	1.36613	-1.2526 ppb	1.36613	109.06%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-3.9	-1.42 µg/L	4.177	-1.42 ppb	4.177	294.77%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		2.6	0.2467 µg/L	1.58234	0.2467 ppb	1.58234	641.29%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	54.7	0.8015 µg/L	0.78785	0.8015 ppb	0.78785	98.29%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	8.2	0.5097 µg/L	0.15517	0.5097 ppb	0.15517	30.44%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-158.5	-0.3295 µg/L	0.07245	-0.3295 ppb	0.07245	21.99%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	-78.3	-0.0699 µg/L	0.07531	-0.0699 ppb	0.07531	107.82%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	1.9	0.2315 µg/L	1.10938	0.2315 ppb	1.10938	479.17%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-138.3	-8.1038 µg/L	4.05883	-8.1038 ppb	4.05883	50.09%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-64.3	-0.3180 µg/L	0.44583	-0.3180 ppb	0.44583	140.21%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	25.1	0.1413 µg/L	0.04962	0.1413 ppb	0.04962	35.11%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 189

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 2:19:04

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	142482.1	142482.1	97.6 %		02:19:37
1	Al 396.153Radial†	25864.4	26553.4	4900.9 µg/L	4900.9 ppb	02:19:37
1	Ca 317.933Radial†	85331.9	86836.1	4837.1 µg/L	4837.1 ppb	02:19:37
1	Fe 238.204 Radial†	75728.7	77413.1	4771.3 µg/L	4771.3 ppb	02:19:37
1	K 766.490 Radial†	14888.6	13704.1	5013.3 µg/L	5013.3 ppb	02:19:37
1	Mg 279.077 IEC†	12988.0	13111.5	4892.7 µg/L	4892.7 ppb	02:19:37
1	Na 589.592 Radial†	71527.5	71967.5	9827.2 µg/L	9827.2 ppb	02:19:37
1	Sr 421.552†	227636.6	233280.1	484.94 µg/L	484.94 ppb	02:19:35
1	Sc 361.383	1730429.7	1730429.7	100.71 %		02:20:04
1	Y 371.029	1022608.2	1022608.2	99.603 %		02:20:04
1	Ag 328.068†	131919.2	126896.9	475.83 µg/L	475.83 ppb	02:20:04
1	As 188.979†	1608.5	1617.5	496.07 µg/L	496.07 ppb	02:20:24
1	B 249.677†	35428.5	31672.6	465.47 µg/L	465.47 ppb	02:20:04
1	Ba 233.527†	118521.9	117821.3	475.17 µg/L	475.17 ppb	02:20:04
1	Be 313.107†	1771161.4	1759726.5	479.27 µg/L	479.27 ppb	02:20:04
1	Cd 226.502†	75681.8	75265.9	469.84 µg/L	469.84 ppb	02:20:04
1	Co 228.616†	38563.9	38482.0	475.06 µg/L	475.06 ppb	02:20:04
1	Cr 267.716†	60790.8	60183.2	471.23 µg/L	471.23 ppb	02:20:04
1	Cu 324.752†	125721.3	121861.9	475.05 µg/L	475.05 ppb	02:20:04
1	Mn 257.610†	388444.5	385465.8	476.73 µg/L	476.73 ppb	02:20:04
1	Mo 202.031†	16270.9	16176.2	475.83 µg/L	475.83 ppb	02:20:24
1	Ni 231.604†	41269.7	41054.9	472.72 µg/L	472.72 ppb	02:20:04
1	P 214.914†	11152.5	11091.7	2364.2 µg/L	2364.2 ppb	02:20:24
1	Pb 220.353†	8708.1	8560.3	479.37 µg/L	479.37 ppb	02:20:24
1	S 181.975 Axial†	1839.5	1721.4	1282.3 µg/L	1282.3 ppb	02:20:24
1	Sb 206.836†	4096.9	3987.2	475.12 µg/L	475.12 ppb	02:20:24
1	Se 196.026†	1319.7	1295.1	470 µg/L	470 ppb	02:20:24
1	SiO2†	54111.4	51954.2	5057.7 µg/L	5057.7 ppb	02:20:04
1	Si 251.611†	163829.4	161836.7	2376.5 µg/L	2376.5 ppb	02:20:04
1	Sn 189.927†	7696.6	7643.4	478.09 µg/L	478.09 ppb	02:20:24
1	Ti 334.940†	514200.9	509619.5	475.51 µg/L	475.51 ppb	02:20:04
1	Tl 190.801†	3756.8	3847.0	479.82 µg/L	479.82 ppb	02:20:24
1	U 409.014†	7265.9	7484.6	466.47 µg/L	466.47 ppb	02:20:04
1	V 292.402†	97858.9	96764.5	478.34 µg/L	478.34 ppb	02:20:04
1	Zn 213.857†	85251.2	84085.2	468.63 µg/L	468.63 ppb	02:20:04
2	Sc RADIAL	143417.3	143417.3	98.3 %		02:19:41
2	Al 396.153Radial†	26013.9	26532.9	4897.2 µg/L	4897.2 ppb	02:19:41
2	Ca 317.933Radial†	85954.2	86899.4	4840.6 µg/L	4840.6 ppb	02:19:41
2	Fe 238.204 Radial†	76353.0	77542.5	4779.2 µg/L	4779.2 ppb	02:19:41
2	K 766.490 Radial†	14792.4	13506.7	4941.0 µg/L	4941.0 ppb	02:19:41
2	Mg 279.077 IEC†	13150.5	13190.2	4921.9 µg/L	4921.9 ppb	02:19:41
2	Na 589.592 Radial†	72142.5	72115.6	9847.5 µg/L	9847.5 ppb	02:19:41
2	Sr 421.552†	229319.1	233471.7	485.34 µg/L	485.34 ppb	02:19:39
2	Sc 361.383	1743349.5	1743349.5	101.46 %		02:20:27
2	Y 371.029	1028716.5	1028716.5	100.20 %		02:20:27
2	Ag 328.068†	133300.6	127287.6	477.31 µg/L	477.31 ppb	02:20:27
2	As 188.979†	1596.4	1593.8	488.89 µg/L	488.89 ppb	02:20:47
2	B 249.677†	35997.3	31972.5	469.88 µg/L	469.88 ppb	02:20:27
2	Ba 233.527†	120018.6	118424.3	477.60 µg/L	477.60 ppb	02:20:27
2	Be 313.107†	1796503.1	1771669.7	482.53 µg/L	482.53 ppb	02:20:27
2	Cd 226.502†	77106.3	76113.0	475.13 µg/L	475.13 ppb	02:20:27
2	Co 228.616†	39051.0	38678.3	477.48 µg/L	477.48 ppb	02:20:27
2	Cr 267.716†	61466.3	60401.6	472.94 µg/L	472.94 ppb	02:20:27
2	Cu 324.752†	126763.9	121964.2	475.45 µg/L	475.45 ppb	02:20:27
2	Mn 257.610†	393146.3	387241.5	478.93 µg/L	478.93 ppb	02:20:27
2	Mo 202.031†	16303.2	16088.2	473.25 µg/L	473.25 ppb	02:20:47
2	Ni 231.604†	41851.6	41324.8	475.83 µg/L	475.83 ppb	02:20:27
2	P 214.914†	11183.1	11039.8	2353.0 µg/L	2353.0 ppb	02:20:47
2	Pb 220.353†	8703.6	8491.7	475.54 µg/L	475.54 ppb	02:20:47



2	S 181.975 Axial†	1799.8	1668.8	1243.2 µg/L	1243.2 ppb	02:20:47
2	Sb 206.836†	4122.9	3982.7	474.52 µg/L	474.52 ppb	02:20:47
2	Se 196.026†	1342.9	1308.3	475 µg/L	475 ppb	02:20:47
2	SiO2†	55076.9	52507.6	5111.9 µg/L	5111.9 ppb	02:20:27
2	Si 251.611†	165962.8	162733.8	2389.7 µg/L	2389.7 ppb	02:20:27
2	Sn 189.927†	7680.9	7571.3	473.60 µg/L	473.60 ppb	02:20:47
2	Ti 334.940†	519896.2	511448.9	477.22 µg/L	477.22 ppb	02:20:27
2	Tl 190.801†	3764.8	3827.2	477.42 µg/L	477.42 ppb	02:20:47
2	U 409.014†	7312.8	7477.3	466.23 µg/L	466.23 ppb	02:20:27
2	V 292.402†	99237.6	97403.3	481.44 µg/L	481.44 ppb	02:20:27
2	Zn 213.857†	86569.5	84757.1	472.38 µg/L	472.38 ppb	02:20:27
3	Sc RADIAL	142522.4	142522.4	97.7 %		02:19:45
3	Al 396.153Radial†	26049.5	26735.5	4934.6 µg/L	4934.6 ppb	02:19:45
3	Ca 317.933Radial†	85524.1	87008.2	4846.7 µg/L	4846.7 ppb	02:19:45
3	Fe 238.204 Radial†	76071.6	77742.2	4791.5 µg/L	4791.5 ppb	02:19:45
3	K 766.490 Radial†	14775.5	13584.0	4969.3 µg/L	4969.3 ppb	02:19:45
3	Mg 279.077 IEC†	13130.2	13253.4	4945.6 µg/L	4945.6 ppb	02:19:45
3	Na 589.592 Radial†	71535.5	71954.9	9825.5 µg/L	9825.5 ppb	02:19:45
3	Sr 421.552†	230430.6	236074.9	490.75 µg/L	490.75 ppb	02:19:43
3	Sc 361.383	1739029.7	1739029.7	101.21 %		02:20:50
3	Y 371.029	1026889.1	1026889.1	100.02 %		02:20:50
3	Ag 328.068†	133069.1	127385.2	477.66 µg/L	477.66 ppb	02:20:50
3	As 188.979†	1625.4	1626.3	498.73 µg/L	498.73 ppb	02:21:10
3	B 249.677†	35984.4	32047.9	470.99 µg/L	470.99 ppb	02:20:50
3	Ba 233.527†	119885.1	118586.2	478.26 µg/L	478.26 ppb	02:20:50
3	Be 313.107†	1792265.9	1771881.4	482.58 µg/L	482.58 ppb	02:20:50
3	Cd 226.502†	76820.8	76019.6	474.55 µg/L	474.55 ppb	02:20:50
3	Co 228.616†	39099.9	38822.3	479.26 µg/L	479.26 ppb	02:20:50
3	Cr 267.716†	61364.7	60451.8	473.33 µg/L	473.33 ppb	02:20:50
3	Cu 324.752†	126363.1	121878.6	475.12 µg/L	475.12 ppb	02:20:50
3	Mn 257.610†	392632.0	387695.9	479.49 µg/L	479.49 ppb	02:20:50
3	Mo 202.031†	16380.6	16204.6	476.67 µg/L	476.67 ppb	02:21:10
3	Ni 231.604†	41859.0	41434.6	477.09 µg/L	477.09 ppb	02:20:50
3	P 214.914†	11258.2	11141.4	2374.8 µg/L	2374.8 ppb	02:21:10
3	Pb 220.353†	8758.8	8567.6	479.78 µg/L	479.78 ppb	02:21:10
3	S 181.975 Axial†	1801.3	1674.7	1247.6 µg/L	1247.6 ppb	02:21:10
3	Sb 206.836†	4138.4	4008.0	477.59 µg/L	477.59 ppb	02:21:10
3	Se 196.026†	1350.9	1319.5	479 µg/L	479 ppb	02:21:10
3	SiO2†	54848.5	52416.7	5102.8 µg/L	5102.8 ppb	02:20:50
3	Si 251.611†	165580.0	162761.9	2390.1 µg/L	2390.1 ppb	02:20:50
3	Sn 189.927†	7757.7	7666.0	479.50 µg/L	479.50 ppb	02:21:10
3	Ti 334.940†	519132.4	511967.1	477.70 µg/L	477.70 ppb	02:20:50
3	Tl 190.801†	3760.5	3832.2	478.02 µg/L	478.02 ppb	02:21:10
3	U 409.014†	7409.7	7590.9	472.81 µg/L	472.81 ppb	02:20:50
3	V 292.402†	98761.8	97176.0	480.37 µg/L	480.37 ppb	02:20:50
3	Zn 213.857†	86374.1	84776.0	472.48 µg/L	472.48 ppb	02:20:50

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1737602.9	101.13 %	0.383			0.38%
Sc RADIAL	142807.3	97.9 %	0.36			0.37%
Y 371.029	1026071.2	99.940 %	0.3054			0.31%
Ag 328.068†	127189.9	476.93 µg/L	0.975	476.93 ppb	0.975	0.20%
QC value within limits for Ag 328.068 Recovery = 95.39%						
Al 396.153Radial†	26607.3	4910.9 µg/L	20.62	4910.9 ppb	20.62	0.42%
QC value within limits for Al 396.153Radial Recovery = 98.22%						
As 188.979†	1612.5	494.56 µg/L	5.091	494.56 ppb	5.091	1.03%
QC value within limits for As 188.979 Recovery = 98.91%						
B 249.677†	31897.6	468.78 µg/L	2.921	468.78 ppb	2.921	0.62%
QC value within limits for B 249.677 Recovery = 93.76%						
Ba 233.527†	118277.3	477.01 µg/L	1.625	477.01 ppb	1.625	0.34%
QC value within limits for Ba 233.527 Recovery = 95.40%						
Be 313.107†	1767759.2	481.46 µg/L	1.895	481.46 ppb	1.895	0.39%
QC value within limits for Be 313.107 Recovery = 96.29%						
Ca 317.933Radial†	86914.6	4841.5 µg/L	4.85	4841.5 ppb	4.85	0.10%
QC value within limits for Ca 317.933Radial Recovery = 96.83%						
Cd 226.502†	75799.5	473.17 µg/L	2.901	473.17 ppb	2.901	0.61%
QC value within limits for Cd 226.502 Recovery = 94.63%						
Co 228.616†	38660.9	477.27 µg/L	2.108	477.27 ppb	2.108	0.44%



QC value within limits for Co 228.616 Recovery = 95.45%							
Cr 267.716†	60345.5	472.50 µg/L	1.117	472.50 ppb	1.117	0.24%	
QC value within limits for Cr 267.716 Recovery = 94.50%							
Cu 324.752†	121901.6	475.21 µg/L	0.213	475.21 ppb	0.213	0.04%	
QC value within limits for Cu 324.752 Recovery = 95.04%							
Fe 238.204 Radial†	77565.9	4780.7 µg/L	10.22	4780.7 ppb	10.22	0.21%	
QC value within limits for Fe 238.204 Radial Recovery = 95.61%							
K 766.490 Radial†	13598.3	4974.5 µg/L	36.41	4974.5 ppb	36.41	0.73%	
QC value within limits for K 766.490 Radial Recovery = 99.49%							
Mg 279.077 IEC†	13185.0	4920.1 µg/L	26.48	4920.1 ppb	26.48	0.54%	
QC value within limits for Mg 279.077 IEC Recovery = 98.40%							
Mn 257.610†	386801.1	478.38 µg/L	1.457	478.38 ppb	1.457	0.30%	
QC value within limits for Mn 257.610 Recovery = 95.68%							
Mo 202.031†	16156.3	475.25 µg/L	1.783	475.25 ppb	1.783	0.38%	
QC value within limits for Mo 202.031 Recovery = 95.05%							
Na 589.592 Radial†	72012.7	9833.4 µg/L	12.23	9833.4 ppb	12.23	0.12%	
QC value within limits for Na 589.592 Radial Recovery = 98.33%							
Ni 231.604†	41271.4	475.21 µg/L	2.249	475.21 ppb	2.249	0.47%	
QC value within limits for Ni 231.604 Recovery = 95.04%							
P 214.914†	11091.0	2364.0 µg/L	10.88	2364.0 ppb	10.88	0.46%	
QC value within limits for P 214.914 Recovery = 94.56%							
Pb 220.353†	8539.8	478.23 µg/L	2.340	478.23 ppb	2.340	0.49%	
QC value within limits for Pb 220.353 Recovery = 95.65%							
S 181.975 Axial†	1688.3	1257.7 µg/L	21.41	1257.7 ppb	21.41	1.70%	
QC value greater than the upper limit for S 181.975 Axial Recovery = 125.77%							
Sb 206.836†	3992.6	475.74 µg/L	1.625	475.74 ppb	1.625	0.34%	
QC value within limits for Sb 206.836 Recovery = 95.15%							
Se 196.026†	1307.6	475 µg/L	4.4	475 ppb	4.4	0.93%	
QC value within limits for Se 196.026 Recovery = 94.96%							
SiO2†	52292.8	5090.8 µg/L	29.05	5090.8 ppb	29.05	0.57%	
QC value within limits for SiO2 Recovery = 95.20%							
Si 251.611†	162444.1	2385.4 µg/L	7.77	2385.4 ppb	7.77	0.33%	
QC value within limits for Si 251.611 Recovery = 95.42%							
Sn 189.927†	7626.9	477.06 µg/L	3.084	477.06 ppb	3.084	0.65%	
QC value within limits for Sn 189.927 Recovery = 95.41%							
Sr 421.552†	234275.6	487.01 µg/L	3.246	487.01 ppb	3.246	0.67%	
QC value within limits for Sr 421.552 Recovery = 97.40%							
Ti 334.940†	511011.8	476.81 µg/L	1.149	476.81 ppb	1.149	0.24%	
QC value within limits for Ti 334.940 Recovery = 95.36%							
Tl 190.801†	3835.5	478.42 µg/L	1.250	478.42 ppb	1.250	0.26%	
QC value within limits for Tl 190.801 Recovery = 95.68%							
U 409.014†	7517.6	468.51 µg/L	3.732	468.51 ppb	3.732	0.80%	
QC value within limits for U 409.014 Recovery = 93.70%							
V 292.402†	97114.6	480.05 µg/L	1.572	480.05 ppb	1.572	0.33%	
QC value within limits for V 292.402 Recovery = 96.01%							
Zn 213.857†	84539.4	471.17 µg/L	2.196	471.17 ppb	2.196	0.47%	
QC value within limits for Zn 213.857 Recovery = 94.23%							
QC Failed. Continue with analysis.							

Sequence No.: 190

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 2:21:19

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	142533.7	142533.7	97.7 %		02:21:48
1	Al 396.153Radial†	-46.3	15.8	2.9384 µg/L	2.9384 ppb	02:22:08
1	Ca 317.933Radial†	812.0	270.8	15.085 µg/L	15.085 ppb	02:22:08
1	Fe 238.204 Radial†	148.9	4.3	0.2664 µg/L	0.2664 ppb	02:22:08
1	K 766.490 Radial†	1893.6	393.9	144.21 µg/L	144.21 ppb	02:21:48
1	Mg 279.077 IEC†	191.4	5.2	1.9452 µg/L	1.9452 ppb	02:22:08
1	Na 589.592 Radial†	2030.7	788.2	107.55 µg/L	107.55 ppb	02:21:48
1	Sr 421.552†	35.6	171.7	0.3569 µg/L	0.3569 ppb	02:21:48
1	Sc 361.383	1757302.0	1757302.0	102.27 %		02:22:56
1	Y 371.029	1047691.3	1047691.3	102.05 %		02:22:56
1	Ag 328.068†	4173.8	-10.5	-0.0333 µg/L	-0.0333 ppb	02:22:58
1	As 188.979†	-24.8	-3.9	-1.1733 µg/L	-1.1733 ppb	02:23:18
1	B 249.677†	3656.0	68.8	1.0136 µg/L	1.0136 ppb	02:22:58
1	Ba 233.527†	-145.3	-6.2	-0.0251 µg/L	-0.0251 ppb	02:23:18
1	Be 313.107†	-953.7	132.2	0.0373 µg/L	0.0373 ppb	02:22:58
1	Cd 226.502†	-109.3	11.3	0.0707 µg/L	0.0707 ppb	02:23:18
1	Co 228.616†	-176.7	17.5	0.2164 µg/L	0.2164 ppb	02:23:18
1	Cr 267.716†	172.3	-10.1	-0.0824 µg/L	-0.0824 ppb	02:23:18
1	Cu 324.752†	2966.4	-71.8	-0.2751 µg/L	-0.2751 ppb	02:22:58
1	Mn 257.610†	287.6	44.0	0.0543 µg/L	0.0543 ppb	02:23:18
1	Mo 202.031†	-24.1	-3.5	-0.1021 µg/L	-0.1021 ppb	02:23:18
1	Ni 231.604†	-64.1	13.9	0.1596 µg/L	0.1596 ppb	02:23:18
1	P 214.914†	-11.1	7.1	1.5277 µg/L	1.5277 ppb	02:23:18
1	Pb 220.353†	81.6	-6.6	-0.3717 µg/L	-0.3717 ppb	02:23:18
1	S 181.975 Axial†	419.7	305.3	226.72 µg/L	226.72 ppb	02:23:18
1	Sb 206.836†	83.6	0.9	0.1126 µg/L	0.1126 ppb	02:23:18
1	Se 196.026†	22.7	6.9	2.50 µg/L	2.50 ppb	02:23:18
1	SiO2†	1807.8	-7.8	-0.7674 µg/L	-0.7674 ppb	02:23:18
1	Si 251.611†	1015.5	156.3	2.3014 µg/L	2.3014 ppb	02:22:58
1	Sn 189.927†	11.0	11.9	0.7393 µg/L	0.7393 ppb	02:23:18
1	Ti 334.940†	1008.0	33.1	0.0294 µg/L	0.0294 ppb	02:22:58
1	Tl 190.801†	-73.5	44.8	5.5056 µg/L	5.5056 ppb	02:23:18
1	U 409.014†	-199.5	74.9	4.3804 µg/L	4.3804 ppb	02:22:58
1	V 292.402†	420.5	7.4	0.0374 µg/L	0.0374 ppb	02:22:58
1	Zn 213.857†	628.6	50.2	0.2812 µg/L	0.2812 ppb	02:23:18
2	Sc RADIAL	140995.2	140995.2	96.6 %		02:22:10
2	Al 396.153Radial†	-49.6	11.8	2.2042 µg/L	2.2042 ppb	02:22:30
2	Ca 317.933Radial†	775.8	242.4	13.501 µg/L	13.501 ppb	02:22:30
2	Fe 238.204 Radial†	150.8	8.0	0.4928 µg/L	0.4928 ppb	02:22:30
2	K 766.490 Radial†	1849.8	369.8	135.37 µg/L	135.37 ppb	02:22:10
2	Mg 279.077 IEC†	181.9	-2.5	-0.9202 µg/L	-0.9202 ppb	02:22:30
2	Na 589.592 Radial†	2008.5	787.9	107.52 µg/L	107.52 ppb	02:22:10
2	Sr 421.552†	-96.1	35.9	0.0745 µg/L	0.0745 ppb	02:22:10
2	Sc 361.383	1746876.6	1746876.6	101.67 %		02:23:21
2	Y 371.029	1042581.7	1042581.7	101.55 %		02:23:21
2	Ag 328.068†	4096.2	-62.4	-0.2478 µg/L	-0.2478 ppb	02:23:23
2	As 188.979†	-17.8	2.8	0.8504 µg/L	0.8504 ppb	02:23:43
2	B 249.677†	3611.1	45.9	0.6766 µg/L	0.6766 ppb	02:23:23
2	Ba 233.527†	-113.1	24.6	0.0985 µg/L	0.0985 ppb	02:23:43
2	Be 313.107†	-508.9	564.1	0.1524 µg/L	0.1524 ppb	02:23:23
2	Cd 226.502†	-89.1	30.5	0.1906 µg/L	0.1906 ppb	02:23:43
2	Co 228.616†	-178.9	14.3	0.1770 µg/L	0.1770 ppb	02:23:43
2	Cr 267.716†	186.9	5.3	0.0438 µg/L	0.0438 ppb	02:23:43
2	Cu 324.752†	2747.0	-270.3	-1.0536 µg/L	-1.0536 ppb	02:23:23
2	Mn 257.610†	273.0	31.2	0.0387 µg/L	0.0387 ppb	02:23:43
2	Mo 202.031†	-29.7	-9.1	-0.2682 µg/L	-0.2682 ppb	02:23:43
2	Ni 231.604†	-105.3	-27.1	-0.3115 µg/L	-0.3115 ppb	02:23:43
2	P 214.914†	-22.0	-3.6	-0.7656 µg/L	-0.7656 ppb	02:23:43
2	Pb 220.353†	78.2	-9.5	-0.5265 µg/L	-0.5265 ppb	02:23:43

2	S 181.975 Axial†	415.2	303.3	225.21 µg/L	225.21 ppb	02:23:43
2	Sb 206.836†	72.3	-9.7	-1.1644 µg/L	-1.1644 ppb	02:23:43
2	Se 196.026†	13.2	-2.3	-0.833 µg/L	-0.833 ppb	02:23:43
2	SiO2†	1822.3	17.1	1.6785 µg/L	1.6785 ppb	02:23:43
2	Si 251.611†	1063.6	209.5	3.0940 µg/L	3.0940 ppb	02:23:23
2	Sn 189.927†	-4.2	-3.0	-0.1854 µg/L	-0.1854 ppb	02:23:43
2	Ti 334.940†	904.9	-62.5	-0.0564 µg/L	-0.0564 ppb	02:23:23
2	Tl 190.801†	-70.1	47.7	5.8552 µg/L	5.8552 ppb	02:23:43
2	U 409.014†	-342.8	-67.3	-3.9879 µg/L	-3.9879 ppb	02:23:23
2	V 292.402†	211.0	-196.3	-0.9629 µg/L	-0.9629 ppb	02:23:23
2	Zn 213.857†	601.6	27.3	0.1562 µg/L	0.1562 ppb	02:23:43
3	Sc RADIAL	142382.8	142382.8	97.6 %		02:22:32
3	Al 396.153Radial†	-56.5	5.3	0.9959 µg/L	0.9959 ppb	02:22:53
3	Ca 317.933Radial†	740.0	197.9	11.024 µg/L	11.024 ppb	02:22:53
3	Fe 238.204 Radial†	137.9	-6.8	-0.4201 µg/L	-0.4201 ppb	02:22:53
3	K 766.490 Radial†	1843.8	344.9	126.26 µg/L	126.26 ppb	02:22:32
3	Mg 279.077 IEC†	185.6	-0.4	-0.1653 µg/L	-0.1653 ppb	02:22:53
3	Na 589.592 Radial†	1905.7	662.4	90.378 µg/L	90.378 ppb	02:22:32
3	Sr 421.552†	-190.5	-59.9	-0.1247 µg/L	-0.1247 ppb	02:22:32
3	Sc 361.383	1733759.3	1733759.3	100.90 %		02:23:45
3	Y 371.029	1035483.6	1035483.6	100.86 %		02:23:45
3	Ag 328.068†	3971.4	-155.6	-0.5722 µg/L	-0.5722 ppb	02:23:47
3	As 188.979†	-15.3	5.2	1.5781 µg/L	1.5781 ppb	02:24:07
3	B 249.677†	3495.0	-42.2	-0.6226 µg/L	-0.6226 ppb	02:23:47
3	Ba 233.527†	-129.0	8.0	0.0318 µg/L	0.0318 ppb	02:24:07
3	Be 313.107†	-783.0	288.7	0.0811 µg/L	0.0811 ppb	02:23:47
3	Cd 226.502†	-94.8	24.2	0.1513 µg/L	0.1513 ppb	02:24:07
3	Co 228.616†	-199.6	-7.5	-0.0925 µg/L	-0.0925 ppb	02:24:07
3	Cr 267.716†	165.2	-14.9	-0.1233 µg/L	-0.1233 ppb	02:24:07
3	Cu 324.752†	3082.5	82.7	0.3282 µg/L	0.3282 ppb	02:23:47
3	Mn 257.610†	277.9	38.1	0.0471 µg/L	0.0471 ppb	02:24:07
3	Mo 202.031†	-27.7	-7.4	-0.2175 µg/L	-0.2175 ppb	02:24:07
3	Ni 231.604†	-100.3	-22.8	-0.2630 µg/L	-0.2630 ppb	02:24:07
3	P 214.914†	3.0	20.9	4.4747 µg/L	4.4747 ppb	02:24:07
3	Pb 220.353†	86.0	-1.2	-0.0714 µg/L	-0.0714 ppb	02:24:07
3	S 181.975 Axial†	402.3	293.6	218.02 µg/L	218.02 ppb	02:24:07
3	Sb 206.836†	82.0	0.5	0.0548 µg/L	0.0548 ppb	02:24:07
3	Se 196.026†	21.9	6.5	2.35 µg/L	2.35 ppb	02:24:07
3	SiO2†	1796.2	4.7	0.4621 µg/L	0.4621 ppb	02:24:07
3	Si 251.611†	1001.5	155.9	2.2994 µg/L	2.2994 ppb	02:23:47
3	Sn 189.927†	4.7	5.8	0.3603 µg/L	0.3603 ppb	02:24:07
3	Ti 334.940†	986.8	25.4	0.0207 µg/L	0.0207 ppb	02:23:47
3	Tl 190.801†	-44.3	72.8	8.9372 µg/L	8.9372 ppb	02:24:07
3	U 409.014†	-127.6	143.4	8.3576 µg/L	8.3576 ppb	02:23:47
3	V 292.402†	301.5	-105.0	-0.5092 µg/L	-0.5092 ppb	02:23:47
3	Zn 213.857†	581.7	12.1	0.0693 µg/L	0.0693 ppb	02:24:07

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1745979.3	101.62 %	0.687			0.68%
Sc RADIAL	141970.6	97.3 %	0.58			0.60%
Y 371.029	1041918.9	101.48 %	0.597			0.59%
Ag 328.068†	-76.2	-0.2844 µg/L	0.27132	-0.2844 ppb	0.27132	95.39%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	11.0	2.0462 µg/L	0.98085	2.0462 ppb	0.98085	47.94%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.4	0.4184 µg/L	1.42565	0.4184 ppb	1.42565	340.75%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	24.2	0.3559 µg/L	0.86394	0.3559 ppb	0.86394	242.77%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	8.8	0.0350 µg/L	0.06186	0.0350 ppb	0.06186	176.58%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	328.3	0.0903 µg/L	0.05810	0.0903 ppb	0.05810	64.34%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	237.0	13.203 µg/L	2.0466	13.203 ppb	2.0466	15.50%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	22.0	0.1375 µg/L	0.06111	0.1375 ppb	0.06111	44.43%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	8.1	0.1003 µg/L	0.16815	0.1003 ppb	0.16815	167.65%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	-6.6	-0.0540 µg/L	0.08710	-0.0540 ppb	0.08710 161.40%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	-86.5	-0.3335 µg/L	0.69273	-0.3335 ppb	0.69273 207.71%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	1.8	0.1130 µg/L	0.47541	0.1130 ppb	0.47541 420.63%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	369.6	135.28 µg/L	8.974	135.28 ppb	8.974 6.63%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	0.8	0.2866 µg/L	1.48517	0.2866 ppb	1.48517 518.27%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	37.8	0.0467 µg/L	0.00782	0.0467 ppb	0.00782 16.75%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	-6.7	-0.1959 µg/L	0.08513	-0.1959 ppb	0.08513 43.45%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	746.2	101.82 µg/L	9.907	101.82 ppb	9.907 9.73%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	-12.0	-0.1383 µg/L	0.25912	-0.1383 ppb	0.25912 187.35%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	8.1	1.7456 µg/L	2.62689	1.7456 ppb	2.62689 150.49%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	-5.7	-0.3232 µg/L	0.23141	-0.3232 ppb	0.23141 71.60%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	300.7	223.31 µg/L	4.649	223.31 ppb	4.649 2.08%
Sb 206.836†	QC value greater than the upper limit for S 181.975 Axial	Recovery = Not calculated			
	-2.8	-0.3323 µg/L	0.72115	-0.3323 ppb	0.72115 217.00%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	3.7	1.34 µg/L	1.882	1.34 ppb	1.882 140.61%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	4.7	0.4577 µg/L	1.22296	0.4577 ppb	1.22296 267.19%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	173.9	2.5649 µg/L	0.45818	2.5649 ppb	0.45818 17.86%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	4.9	0.3047 µg/L	0.46487	0.3047 ppb	0.46487 152.55%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	49.2	0.1022 µg/L	0.24199	0.1022 ppb	0.24199 236.77%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	-1.3	-0.0021 µg/L	0.04720	-0.0021 ppb	0.04720 >999.9%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	55.1	6.7660 µg/L	1.88839	6.7660 ppb	1.88839 27.91%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	50.3	2.9167 µg/L	6.30153	2.9167 ppb	6.30153 216.05%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	-98.0	-0.4782 µg/L	0.50087	-0.4782 ppb	0.50087 104.74%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	29.9	0.1689 µg/L	0.10651	0.1689 ppb	0.10651 63.06%
	QC Failed. Continue with analysis.				

Sequence No.: 200

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 2:47:00

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	144350.1	144350.1	98.9 %		02:47:33
1	Al 396.153Radial†	26228.7	26578.9	4905.8 µg/L	4905.8 ppb	02:47:33
1	Ca 317.933Radial†	86007.1	86387.7	4812.1 µg/L	4812.1 ppb	02:47:33
1	Fe 238.204 Radial†	76839.4	77532.2	4778.6 µg/L	4778.6 ppb	02:47:33
1	K 766.490 Radial†	15343.0	13966.1	5108.9 µg/L	5108.9 ppb	02:47:33
1	Mg 279.077 IEC†	13163.3	13116.7	4894.5 µg/L	4894.5 ppb	02:47:33
1	Na 589.592 Radial†	85523.5	85168.6	11631 µg/L	11631 ppb	02:47:33
1	Sr 421.552†	229491.2	232137.9	482.56 µg/L	482.56 ppb	02:47:31
1	Sc 361.383	1735080.7	1735080.7	100.98 %		02:47:46
1	Y 371.029	1023835.7	1023835.7	99.722 %		02:47:46
1	Ag 328.068†	132112.4	126737.1	475.24 µg/L	475.24 ppb	02:47:46
1	As 188.979†	1600.3	1605.1	492.29 µg/L	492.29 ppb	02:48:06
1	B 249.677†	35710.3	31857.4	468.19 µg/L	468.19 ppb	02:47:46
1	Ba 233.527†	119099.4	118077.7	476.20 µg/L	476.20 ppb	02:47:46
1	Be 313.107†	1782783.3	1766521.3	481.13 µg/L	481.13 ppb	02:47:46
1	Cd 226.502†	75967.8	75347.7	470.35 µg/L	470.35 ppb	02:47:46
1	Co 228.616†	38757.3	38570.9	476.16 µg/L	476.16 ppb	02:47:46
1	Cr 267.716†	60943.8	60172.9	471.14 µg/L	471.14 ppb	02:47:46
1	Cu 324.752†	126054.9	121857.5	475.04 µg/L	475.04 ppb	02:47:46
1	Mn 257.610†	390617.1	386583.5	478.11 µg/L	478.11 ppb	02:47:46
1	Mo 202.031†	16192.2	16054.9	472.27 µg/L	472.27 ppb	02:48:06
1	Ni 231.604†	41343.1	41017.9	472.29 µg/L	472.29 ppb	02:47:46
1	P 214.914†	11104.9	11015.0	2347.7 µg/L	2347.7 ppb	02:48:06
1	Pb 220.353†	8631.3	8461.0	473.82 µg/L	473.82 ppb	02:48:06
1	S 181.975 Axial†	1898.0	1774.5	1321.7 µg/L	1321.7 ppb	02:48:06
1	Sb 206.836†	4090.9	3970.4	473.06 µg/L	473.06 ppb	02:48:06
1	Se 196.026†	1334.9	1306.7	474 µg/L	474 ppb	02:48:06
1	SiO2†	54695.2	52388.2	5100.2 µg/L	5100.2 ppb	02:47:46
1	Si 251.611†	165090.7	162649.7	2388.5 µg/L	2388.5 ppb	02:47:46
1	Sn 189.927†	7654.2	7581.0	474.20 µg/L	474.20 ppb	02:48:06
1	Ti 334.940†	517218.9	511239.5	477.02 µg/L	477.02 ppb	02:47:46
1	Tl 190.801†	3732.0	3812.4	475.58 µg/L	475.58 ppb	02:48:06
1	U 409.014†	7426.6	7624.3	474.65 µg/L	474.65 ppb	02:47:46
1	V 292.402†	98126.3	96768.8	478.33 µg/L	478.33 ppb	02:47:46
1	Zn 213.857†	85631.0	84234.3	469.47 µg/L	469.47 ppb	02:47:46
2	Sc RADIAL	143197.9	143197.9	98.1 %		02:47:37
2	Al 396.153Radial†	26070.2	26630.7	4915.4 µg/L	4915.4 ppb	02:47:37
2	Ca 317.933Radial†	85328.2	86395.4	4812.6 µg/L	4812.6 ppb	02:47:37
2	Fe 238.204 Radial†	76209.4	77515.2	4777.6 µg/L	4777.6 ppb	02:47:37
2	K 766.490 Radial†	15238.0	13983.9	5115.5 µg/L	5115.5 ppb	02:47:37
2	Mg 279.077 IEC†	12996.4	13053.6	4871.0 µg/L	4871.0 ppb	02:47:37
2	Na 589.592 Radial†	84353.8	84672.3	11563 µg/L	11563 ppb	02:47:37
2	Sr 421.552†	228444.9	232938.2	484.23 µg/L	484.23 ppb	02:47:35
2	Sc 361.383	1729977.8	1729977.8	100.68 %		02:48:09
2	Y 371.029	1021138.1	1021138.1	99.459 %		02:48:09
2	Ag 328.068†	132255.3	127264.8	477.20 µg/L	477.20 ppb	02:48:09
2	As 188.979†	1600.4	1609.8	493.75 µg/L	493.75 ppb	02:48:29
2	B 249.677†	35924.0	32173.9	472.86 µg/L	472.86 ppb	02:48:09
2	Ba 233.527†	118874.7	118202.5	476.71 µg/L	476.71 ppb	02:48:09
2	Be 313.107†	1779803.9	1768769.7	481.74 µg/L	481.74 ppb	02:48:09
2	Cd 226.502†	76106.7	75707.5	472.60 µg/L	472.60 ppb	02:48:09
2	Co 228.616†	38701.0	38628.3	476.87 µg/L	476.87 ppb	02:48:09
2	Cr 267.716†	61014.5	60421.2	473.09 µg/L	473.09 ppb	02:48:09
2	Cu 324.752†	126154.1	122324.3	476.85 µg/L	476.85 ppb	02:48:09
2	Mn 257.610†	389925.2	387037.3	478.68 µg/L	478.68 ppb	02:48:09
2	Mo 202.031†	16171.0	16081.2	473.04 µg/L	473.04 ppb	02:48:29
2	Ni 231.604†	41427.6	41222.5	474.65 µg/L	474.65 ppb	02:48:09
2	P 214.914†	11099.7	11042.2	2353.5 µg/L	2353.5 ppb	02:48:29
2	Pb 220.353†	8601.5	8456.6	473.58 µg/L	473.58 ppb	02:48:29

2	S 181.975 Axial†	1845.1	1727.5	1286.8 µg/L	1286.8 ppb	02:48:29
2	Sb 206.836†	4100.2	3991.5	475.56 µg/L	475.56 ppb	02:48:29
2	Se 196.026†	1327.8	1303.5	473 µg/L	473 ppb	02:48:29
2	SiO2†	54326.1	52181.4	5080.0 µg/L	5080.0 ppb	02:48:09
2	Si 251.611†	164905.6	162948.1	2392.9 µg/L	2392.9 ppb	02:48:09
2	Sn 189.927†	7653.3	7602.4	475.54 µg/L	475.54 ppb	02:48:29
2	Ti 334.940†	516285.7	511823.6	477.57 µg/L	477.57 ppb	02:48:09
2	Tl 190.801†	3663.6	3755.4	468.58 µg/L	468.58 ppb	02:48:29
2	U 409.014†	7377.7	7597.4	473.10 µg/L	473.10 ppb	02:48:09
2	V 292.402†	97929.6	96860.1	478.79 µg/L	478.79 ppb	02:48:09
2	Zn 213.857†	85635.6	84489.1	470.89 µg/L	470.89 ppb	02:48:09
3	Sc RADIAL	145242.2	145242.2	99.5 %		02:47:41
3	Al 396.153Radial†	26268.1	26455.7	4882.8 µg/L	4882.8 ppb	02:47:41
3	Ca 317.933Radial†	86324.1	86172.1	4800.1 µg/L	4800.1 ppb	02:47:41
3	Fe 238.204 Radial†	77185.1	77402.4	4770.6 µg/L	4770.6 ppb	02:47:41
3	K 766.490 Radial†	15378.8	13906.8	5087.2 µg/L	5087.2 ppb	02:47:41
3	Mg 279.077 IEC†	13138.0	13009.5	4854.7 µg/L	4854.7 ppb	02:47:41
3	Na 589.592 Radial†	85226.4	84339.0	11517 µg/L	11517 ppb	02:47:41
3	Sr 421.552†	228321.6	229537.8	477.16 µg/L	477.16 ppb	02:47:39
3	Sc 361.383	1722897.8	1722897.8	100.27 %		02:48:32
3	Y 371.029	1017279.7	1017279.7	99.084 %		02:48:32
3	Ag 328.068†	131579.2	127130.4	476.70 µg/L	476.70 ppb	02:48:32
3	As 188.979†	1572.0	1588.0	487.15 µg/L	487.15 ppb	02:48:52
3	B 249.677†	35666.5	32063.7	471.23 µg/L	471.23 ppb	02:48:32
3	Ba 233.527†	118266.8	118081.4	476.22 µg/L	476.22 ppb	02:48:32
3	Be 313.107†	1769881.6	1766138.5	481.02 µg/L	481.02 ppb	02:48:32
3	Cd 226.502†	75739.9	75652.3	472.25 µg/L	472.25 ppb	02:48:32
3	Co 228.616†	38545.9	38631.5	476.90 µg/L	476.90 ppb	02:48:32
3	Cr 267.716†	60533.7	60190.7	471.28 µg/L	471.28 ppb	02:48:32
3	Cu 324.752†	125338.4	122025.7	475.69 µg/L	475.69 ppb	02:48:32
3	Mn 257.610†	387950.9	386659.8	478.21 µg/L	478.21 ppb	02:48:32
3	Mo 202.031†	16180.5	16156.6	475.26 µg/L	475.26 ppb	02:48:52
3	Ni 231.604†	41057.6	41022.6	472.35 µg/L	472.35 ppb	02:48:32
3	P 214.914†	11090.2	11078.0	2361.2 µg/L	2361.2 ppb	02:48:52
3	Pb 220.353†	8596.5	8486.8	475.26 µg/L	475.26 ppb	02:48:52
3	S 181.975 Axial†	1808.3	1698.3	1265.1 µg/L	1265.1 ppb	02:48:52
3	Sb 206.836†	4086.2	3994.3	475.96 µg/L	475.96 ppb	02:48:52
3	Se 196.026†	1329.9	1311.0	476 µg/L	476 ppb	02:48:52
3	SiO2†	54093.6	52171.3	5078.9 µg/L	5078.9 ppb	02:48:32
3	Si 251.611†	163851.5	162569.8	2387.3 µg/L	2387.3 ppb	02:48:32
3	Sn 189.927†	7645.7	7626.1	477.02 µg/L	477.02 ppb	02:48:52
3	Ti 334.940†	513965.1	511616.4	477.38 µg/L	477.38 ppb	02:48:32
3	Tl 190.801†	3647.7	3754.5	468.47 µg/L	468.47 ppb	02:48:52
3	U 409.014†	7387.3	7637.1	475.41 µg/L	475.41 ppb	02:48:32
3	V 292.402†	97466.6	96798.1	478.51 µg/L	478.51 ppb	02:48:32
3	Zn 213.857†	85311.1	84515.0	471.05 µg/L	471.05 ppb	02:48:32

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1729318.8	100.65 %	0.356			0.35%
Sc RADIAL	144263.4	98.9 %	0.70			0.71%
Y 371.029	1020751.1	99.422 %	0.3209			0.32%
Ag 328.068†	127044.1	476.38 µg/L	1.017	476.38 ppb	1.017	0.21%
QC value within limits for Ag 328.068 Recovery = 95.28%						
Al 396.153Radial†	26555.1	4901.3 µg/L	16.73	4901.3 ppb	16.73	0.34%
QC value within limits for Al 396.153Radial Recovery = 98.03%						
As 188.979†	1601.0	491.06 µg/L	3.468	491.06 ppb	3.468	0.71%
QC value within limits for As 188.979 Recovery = 98.21%						
B 249.677†	32031.7	470.76 µg/L	2.368	470.76 ppb	2.368	0.50%
QC value within limits for B 249.677 Recovery = 94.15%						
Ba 233.527†	118120.5	476.38 µg/L	0.286	476.38 ppb	0.286	0.06%
QC value within limits for Ba 233.527 Recovery = 95.28%						
Be 313.107†	1767143.2	481.30 µg/L	0.387	481.30 ppb	0.387	0.08%
QC value within limits for Be 313.107 Recovery = 96.26%						
Ca 317.933Radial†	86318.4	4808.3 µg/L	7.06	4808.3 ppb	7.06	0.15%
QC value within limits for Ca 317.933Radial Recovery = 96.17%						
Cd 226.502†	75569.2	471.73 µg/L	1.211	471.73 ppb	1.211	0.26%
QC value within limits for Cd 226.502 Recovery = 94.35%						
Co 228.616†	38610.2	476.64 µg/L	0.421	476.64 ppb	0.421	0.09%

Cr	267.716†	60261.6	471.83 µg/L	1.086	471.83 ppb	1.086	0.23%
Cu	324.752†	122069.2	475.86 µg/L	0.918	475.86 ppb	0.918	0.19%
Fe	238.204 Radial†	77483.3	4775.6 µg/L	4.35	4775.6 ppb	4.35	0.09%
K	766.490 Radial†	13952.3	5103.9 µg/L	14.77	5103.9 ppb	14.77	0.29%
Mg	279.077 IEC†	13059.9	4873.4 µg/L	20.02	4873.4 ppb	20.02	0.41%
Mn	257.610†	386760.2	478.33 µg/L	0.301	478.33 ppb	0.301	0.06%
Mo	202.031†	16097.6	473.52 µg/L	1.551	473.52 ppb	1.551	0.33%
Na	589.592 Radial†	84726.6	11570 µg/L	57.0	11570 ppb	57.0	0.49%
Ni	231.604†	41087.6	473.09 µg/L	1.345	473.09 ppb	1.345	0.28%
P	214.914†	11045.1	2354.2 µg/L	6.76	2354.2 ppb	6.76	0.29%
Pb	220.353†	8468.1	474.22 µg/L	0.911	474.22 ppb	0.911	0.19%
S	181.975 Axial†	1733.4	1291.2 µg/L	28.53	1291.2 ppb	28.53	2.21%
Sb	206.836†	3985.4	474.86 µg/L	1.568	474.86 ppb	1.568	0.33%
Se	196.026†	1307.1	475 µg/L	1.4	475 ppb	1.4	0.29%
SiO2†		52247.0	5086.4 µg/L	12.02	5086.4 ppb	12.02	0.24%
Si	251.611†	162722.5	2389.6 µg/L	2.95	2389.6 ppb	2.95	0.12%
Sn	189.927†	7603.1	475.58 µg/L	1.408	475.58 ppb	1.408	0.30%
Sr	421.552†	231538.0	481.32 µg/L	3.696	481.32 ppb	3.696	0.77%
Ti	334.940†	511559.8	477.32 µg/L	0.278	477.32 ppb	0.278	0.06%
Tl	190.801†	3774.1	470.88 µg/L	4.075	470.88 ppb	4.075	0.87%
U	409.014†	7619.6	474.39 µg/L	1.174	474.39 ppb	1.174	0.25%
V	292.402†	96809.0	478.54 µg/L	0.232	478.54 ppb	0.232	0.05%
Zn	213.857†	84412.8	470.47 µg/L	0.867	470.47 ppb	0.867	0.18%

QC value within limits for Co 228.616 Recovery = 95.33%

QC value within limits for Cr 267.716 Recovery = 94.37%

QC value within limits for Cu 324.752 Recovery = 95.17%

QC value within limits for Fe 238.204 Radial Recovery = 95.51%

QC value within limits for K 766.490 Radial Recovery = 102.08%

QC value within limits for Mg 279.077 IEC Recovery = 97.47%

QC value within limits for Mn 257.610 Recovery = 95.67%

QC value within limits for Mo 202.031 Recovery = 94.70%

QC value greater than the upper limit for Na 589.592 Radial Recovery = 115.70%

QC value within limits for Ni 231.604 Recovery = 94.62%

QC value within limits for P 214.914 Recovery = 94.17%

QC value within limits for Pb 220.353 Recovery = 94.84%

QC value greater than the upper limit for S 181.975 Axial Recovery = 129.12%

QC value within limits for Sb 206.836 Recovery = 94.97%

QC value within limits for Se 196.026 Recovery = 94.93%

QC value within limits for SiO2 Recovery = 95.12%

QC value within limits for Si 251.611 Recovery = 95.58%

QC value within limits for Sn 189.927 Recovery = 95.12%

QC value within limits for Sr 421.552 Recovery = 96.26%

QC value within limits for Ti 334.940 Recovery = 95.46%

QC value within limits for Tl 190.801 Recovery = 94.18%

QC value within limits for U 409.014 Recovery = 94.88%

QC value within limits for V 292.402 Recovery = 95.71%

QC value within limits for Zn 213.857 Recovery = 94.09%

QC Failed. Continue with analysis.

Sequence No.: 201

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 2:49:00

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	143285.4	143285.4	98.2 %		02:49:29
1	Al 396.153Radial†	-71.7	-9.8	-1.8058 µg/L	-1.8058 ppb	02:49:49
1	Ca 317.933Radial†	595.1	45.5	2.5347 µg/L	2.5347 ppb	02:49:49
1	Fe 238.204 Radial†	146.6	1.2	0.0760 µg/L	0.0760 ppb	02:49:49
1	K 766.490 Radial†	1934.3	425.2	155.46 µg/L	155.46 ppb	02:49:29
1	Mg 279.077 IEC†	167.1	-20.5	-7.6406 µg/L	-7.6406 ppb	02:49:49
1	Na 589.592 Radial†	11220.6	10136.9	1384.7 µg/L	1384.7 ppb	02:49:29
1	Sr 421.552†	-193.9	-62.2	-0.1292 µg/L	-0.1292 ppb	02:49:29
1	Sc 361.383	1752326.8	1752326.8	101.99 %		02:50:37
1	Y 371.029	1044520.1	1044520.1	101.74 %		02:50:37
1	Ag 328.068†	3984.9	-184.1	-0.6824 µg/L	-0.6824 ppb	02:50:39
1	As 188.979†	-14.0	6.6	1.9969 µg/L	1.9969 ppb	02:50:59
1	B 249.677†	3624.3	47.8	0.7042 µg/L	0.7042 ppb	02:50:39
1	Ba 233.527†	-123.5	14.7	0.0593 µg/L	0.0593 ppb	02:50:59
1	Be 313.107†	-829.9	251.0	0.0684 µg/L	0.0684 ppb	02:50:39
1	Cd 226.502†	-84.0	35.8	0.2237 µg/L	0.2237 ppb	02:50:59
1	Co 228.616†	-162.6	30.8	0.3804 µg/L	0.3804 ppb	02:50:59
1	Cr 267.716†	186.9	4.7	0.0364 µg/L	0.0364 ppb	02:50:59
1	Cu 324.752†	2988.3	-42.0	-0.1631 µg/L	-0.1631 ppb	02:50:39
1	Mn 257.610†	271.5	29.0	0.0361 µg/L	0.0361 ppb	02:50:59
1	Mo 202.031†	-30.2	-9.6	-0.2810 µg/L	-0.2810 ppb	02:50:59
1	Ni 231.604†	-95.4	-17.1	-0.1966 µg/L	-0.1966 ppb	02:50:59
1	P 214.914†	-38.5	-19.8	-4.2327 µg/L	-4.2327 ppb	02:50:59
1	Pb 220.353†	75.5	-12.4	-0.6917 µg/L	-0.6917 ppb	02:50:59
1	S 181.975 Axial†	433.7	320.2	237.80 µg/L	237.80 ppb	02:50:59
1	Sb 206.836†	88.2	5.6	0.6633 µg/L	0.6633 ppb	02:50:59
1	Se 196.026†	18.1	2.5	0.898 µg/L	0.898 ppb	02:50:59
1	SiO2†	1786.4	-23.7	-2.3127 µg/L	-2.3127 ppb	02:50:59
1	Si 251.611†	933.6	78.8	1.1640 µg/L	1.1640 ppb	02:50:39
1	Sn 189.927†	3.6	4.6	0.2882 µg/L	0.2882 ppb	02:50:59
1	Ti 334.940†	1101.4	127.4	0.1196 µg/L	0.1196 ppb	02:50:39
1	Tl 190.801†	-18.8	98.2	12.068 µg/L	12.068 ppb	02:50:59
1	U 409.014†	-269.8	5.3	0.3076 µg/L	0.3076 ppb	02:50:39
1	V 292.402†	393.5	-18.0	-0.0903 µg/L	-0.0903 ppb	02:50:39
1	Zn 213.857†	640.1	63.2	0.3564 µg/L	0.3564 ppb	02:50:59
2	Sc RADIAL	142448.9	142448.9	97.6 %		02:49:51
2	Al 396.153Radial†	-80.1	-18.9	-3.4987 µg/L	-3.4987 ppb	02:50:11
2	Ca 317.933Radial†	604.0	58.1	3.2391 µg/L	3.2391 ppb	02:50:11
2	Fe 238.204 Radial†	136.7	-8.1	-0.4962 µg/L	-0.4962 ppb	02:50:11
2	K 766.490 Radial†	1971.5	474.9	173.64 µg/L	173.64 ppb	02:49:51
2	Mg 279.077 IEC†	181.3	-4.9	-1.8347 µg/L	-1.8347 ppb	02:50:11
2	Na 589.592 Radial†	11007.1	9985.3	1364.0 µg/L	1364.0 ppb	02:49:51
2	Sr 421.552†	-296.7	-168.7	-0.3506 µg/L	-0.3506 ppb	02:49:51
2	Sc 361.383	1743448.5	1743448.5	101.47 %		02:51:01
2	Y 371.029	1039864.1	1039864.1	101.28 %		02:51:01
2	Ag 328.068†	4186.0	34.1	0.0996 µg/L	0.0996 ppb	02:51:04
2	As 188.979†	-18.5	2.2	0.6509 µg/L	0.6509 ppb	02:51:24
2	B 249.677†	3669.2	110.2	1.6256 µg/L	1.6256 ppb	02:51:04
2	Ba 233.527†	-125.5	12.1	0.0485 µg/L	0.0485 ppb	02:51:24
2	Be 313.107†	-764.5	311.2	0.0800 µg/L	0.0800 ppb	02:51:04
2	Cd 226.502†	-111.8	8.0	0.0499 µg/L	0.0499 ppb	02:51:24
2	Co 228.616†	-195.5	-2.4	-0.0291 µg/L	-0.0291 ppb	02:51:24
2	Cr 267.716†	178.0	-3.1	-0.0126 µg/L	-0.0126 ppb	02:51:24
2	Cu 324.752†	3031.4	15.3	0.0464 µg/L	0.0464 ppb	02:51:04
2	Mn 257.610†	270.9	29.7	0.0368 µg/L	0.0368 ppb	02:51:24
2	Mo 202.031†	-18.7	1.6	0.0481 µg/L	0.0481 ppb	02:51:24
2	Ni 231.604†	-92.0	-14.2	-0.1629 µg/L	-0.1629 ppb	02:51:24
2	P 214.914†	-21.9	-3.6	-0.7804 µg/L	-0.7804 ppb	02:51:24
2	Pb 220.353†	94.2	6.4	0.3702 µg/L	0.3702 ppb	02:51:24



2	S 181.975 Axial†	418.8	307.7	228.47 µg/L	228.47 ppb	02:51:24
2	Sb 206.836†	71.8	-10.1	-1.1978 µg/L	-1.1978 ppb	02:51:24
2	Se 196.026†	10.4	-5.0	-1.84 µg/L	-1.84 ppb	02:51:24
2	SiO2†	1814.8	13.2	1.2903 µg/L	1.2903 ppb	02:51:24
2	Si 251.611†	895.5	45.9	0.6794 µg/L	0.6794 ppb	02:51:04
2	Sn 189.927†	-7.6	-6.4	-0.3979 µg/L	-0.3979 ppb	02:51:24
2	Ti 334.940†	806.3	-157.9	-0.1409 µg/L	-0.1409 ppb	02:51:04
2	Tl 190.801†	-3.5	113.3	13.912 µg/L	13.912 ppb	02:51:24
2	U 409.014†	-544.2	-266.5	-15.615 µg/L	-15.615 ppb	02:51:04
2	V 292.402†	282.2	-125.7	-0.6229 µg/L	-0.6229 ppb	02:51:04
2	Zn 213.857†	590.2	17.3	0.0980 µg/L	0.0980 ppb	02:51:24
3	Sc RADIAL	145771.5	145771.5	99.9 %		02:50:13
3	Al 396.153Radial†	-87.3	-24.2	-4.4567 µg/L	-4.4567 ppb	02:50:33
3	Ca 317.933Radial†	622.8	62.9	3.5055 µg/L	3.5055 ppb	02:50:33
3	Fe 238.204 Radial†	153.4	5.5	0.3375 µg/L	0.3375 ppb	02:50:33
3	K 766.490 Radial†	2120.5	578.0	211.41 µg/L	211.41 ppb	02:50:13
3	Mg 279.077 IEC†	197.6	7.1	2.6404 µg/L	2.6404 ppb	02:50:33
3	Na 589.592 Radial†	10446.1	9166.6	1252.1 µg/L	1252.1 ppb	02:50:13
3	Sr 421.552†	-272.9	-137.9	-0.2867 µg/L	-0.2867 ppb	02:50:13
3	Sc 361.383	1749649.9	1749649.9	101.83 %		02:51:26
3	Y 371.029	1043874.1	1043874.1	101.67 %		02:51:26
3	Ag 328.068†	3981.6	-181.3	-0.6631 µg/L	-0.6631 ppb	02:51:28
3	As 188.979†	-17.4	3.3	0.9850 µg/L	0.9850 ppb	02:51:48
3	B 249.677†	3525.0	-44.2	-0.6527 µg/L	-0.6527 ppb	02:51:28
3	Ba 233.527†	-136.8	1.5	0.0057 µg/L	0.0057 ppb	02:51:48
3	Be 313.107†	-989.5	93.0	0.0288 µg/L	0.0288 ppb	02:51:28
3	Cd 226.502†	-106.6	13.6	0.0847 µg/L	0.0847 ppb	02:51:48
3	Co 228.616†	-172.6	20.8	0.2569 µg/L	0.2569 ppb	02:51:48
3	Cr 267.716†	208.9	26.6	0.1986 µg/L	0.1986 ppb	02:51:48
3	Cu 324.752†	2628.4	-391.1	-1.5098 µg/L	-1.5098 ppb	02:51:28
3	Mn 257.610†	274.5	32.3	0.0398 µg/L	0.0398 ppb	02:51:48
3	Mo 202.031†	-38.7	-17.9	-0.5273 µg/L	-0.5273 ppb	02:51:48
3	Ni 231.604†	-80.2	-2.2	-0.0256 µg/L	-0.0256 ppb	02:51:48
3	P 214.914†	-9.6	8.5	1.8368 µg/L	1.8368 ppb	02:51:48
3	Pb 220.353†	66.4	-21.2	-1.1913 µg/L	-1.1913 ppb	02:51:48
3	S 181.975 Axial†	404.6	292.3	217.02 µg/L	217.02 ppb	02:51:48
3	Sb 206.836†	87.9	5.5	0.6461 µg/L	0.6461 ppb	02:51:48
3	Se 196.026†	5.0	-10.4	-3.73 µg/L	-3.73 ppb	02:51:48
3	SiO2†	1783.0	-24.4	-2.3667 µg/L	-2.3667 ppb	02:51:48
3	Si 251.611†	951.4	97.7	1.4500 µg/L	1.4500 ppb	02:51:28
3	Sn 189.927†	-5.8	-4.6	-0.2885 µg/L	-0.2885 ppb	02:51:48
3	Ti 334.940†	790.5	-176.3	-0.1697 µg/L	-0.1697 ppb	02:51:28
3	Tl 190.801†	34.7	150.7	18.513 µg/L	18.513 ppb	02:51:48
3	U 409.014†	-71.7	199.5	11.634 µg/L	11.634 ppb	02:51:28
3	V 292.402†	308.0	-101.3	-0.4907 µg/L	-0.4907 ppb	02:51:28
3	Zn 213.857†	628.3	52.6	0.2965 µg/L	0.2965 ppb	02:51:48

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1748475.0	101.76 %		0.265			0.26%
Sc RADIAL	143835.3	98.6 %		1.18			1.20%
Y 371.029	1042752.8	101.56 %		0.246			0.24%
Ag 328.068†	-110.4	-0.4153 µg/L		0.44602	-0.4153 ppb	0.44602	107.40%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-17.6	-3.2537 µg/L		1.34234	-3.2537 ppb	1.34234	41.26%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	4.0	1.2109 µg/L		0.70088	1.2109 ppb	0.70088	57.88%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	38.0	0.5590 µg/L		1.14606	0.5590 ppb	1.14606	205.01%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	9.5	0.0379 µg/L		0.02832	0.0379 ppb	0.02832	74.82%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	218.4	0.0591 µg/L		0.02684	0.0591 ppb	0.02684	45.41%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	55.5	3.0931 µg/L		0.50159	3.0931 ppb	0.50159	16.22%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	19.1	0.1194 µg/L		0.09196	0.1194 ppb	0.09196	77.00%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	16.4	0.2027 µg/L		0.21008	0.2027 ppb	0.21008	103.62%

QC value within limits for Co 228.616 Recovery = Not calculated  
 Cr 267.716† 9.4 0.0741 µg/L 0.11055 0.0741 ppb 0.11055 149.18%  
 QC value within limits for Cr 267.716 Recovery = Not calculated  
 Cu 324.752† -139.3 -0.5421 µg/L 0.84454 -0.5421 ppb 0.84454 155.78%  
 QC value within limits for Cu 324.752 Recovery = Not calculated  
 Fe 238.204 Radial† -0.4 -0.0276 µg/L 0.42641 -0.0276 ppb 0.42641 >999.9%  
 QC value within limits for Fe 238.204 Radial Recovery = Not calculated  
 K 766.490 Radial† 492.7 180.17 µg/L 28.541 180.17 ppb 28.541 15.84%  
 QC value greater than the upper limit for K 766.490 Radial Recovery = Not calculated  
 Mg 279.077 IEC† -6.1 -2.2783 µg/L 5.15483 -2.2783 ppb 5.15483 226.26%  
 QC value within limits for Mg 279.077 IEC Recovery = Not calculated  
 Mn 257.610† 30.3 0.0376 µg/L 0.00196 0.0376 ppb 0.00196 5.21%  
 QC value within limits for Mn 257.610 Recovery = Not calculated  
 Mo 202.031† -8.6 -0.2534 µg/L 0.28865 -0.2534 ppb 0.28865 113.92%  
 QC value within limits for Mo 202.031 Recovery = Not calculated  
 Na 589.592 Radial† 9762.9 1333.6 µg/L 71.33 1333.6 ppb 71.33 5.35%  
 QC value greater than the upper limit for Na 589.592 Radial Recovery = Not calculated  
 Ni 231.604† -11.2 -0.1284 µg/L 0.09057 -0.1284 ppb 0.09057 70.55%  
 QC value within limits for Ni 231.604 Recovery = Not calculated  
 P 214.914† -5.0 -1.0588 µg/L 3.04432 -1.0588 ppb 3.04432 287.53%  
 QC value within limits for P 214.914 Recovery = Not calculated  
 Pb 220.353† -9.0 -0.5043 µg/L 0.79745 -0.5043 ppb 0.79745 158.14%  
 QC value within limits for Pb 220.353 Recovery = Not calculated  
 S 181.975 Axial† 306.7 227.76 µg/L 10.409 227.76 ppb 10.409 4.57%  
 QC value greater than the upper limit for S 181.975 Axial Recovery = Not calculated  
 Sb 206.836† 0.4 0.0372 µg/L 1.06958 0.0372 ppb 1.06958 >999.9%  
 QC value within limits for Sb 206.836 Recovery = Not calculated  
 Se 196.026† -4.3 -1.56 µg/L 2.327 -1.56 ppb 2.327 149.47%  
 QC value within limits for Se 196.026 Recovery = Not calculated  
 SiO2† -11.7 -1.1297 µg/L 2.09595 -1.1297 ppb 2.09595 185.53%  
 QC value within limits for SiO2 Recovery = Not calculated  
 Si 251.611† 74.2 1.0978 µg/L 0.38957 1.0978 ppb 0.38957 35.49%  
 QC value within limits for Si 251.611 Recovery = Not calculated  
 Sn 189.927† -2.1 -0.1327 µg/L 0.36862 -0.1327 ppb 0.36862 277.72%  
 QC value within limits for Sn 189.927 Recovery = Not calculated  
 Sr 421.552† -122.9 -0.2555 µg/L 0.11395 -0.2555 ppb 0.11395 44.59%  
 QC value within limits for Sr 421.552 Recovery = Not calculated  
 Ti 334.940† -68.9 -0.0636 µg/L 0.15935 -0.0636 ppb 0.15935 250.39%  
 QC value within limits for Ti 334.940 Recovery = Not calculated  
 Tl 190.801† 120.7 14.831 µg/L 3.3194 14.831 ppb 3.3194 22.38%  
 QC value within limits for Tl 190.801 Recovery = Not calculated  
 U 409.014† -20.6 -1.2243 µg/L 13.68877 -1.2243 ppb 13.68877 >999.9%  
 QC value within limits for U 409.014 Recovery = Not calculated  
 V 292.402† -81.6 -0.4013 µg/L 0.27732 -0.4013 ppb 0.27732 69.10%  
 QC value within limits for V 292.402 Recovery = Not calculated  
 Zn 213.857† 44.4 0.2503 µg/L 0.13524 0.2503 ppb 0.13524 54.03%  
 QC value within limits for Zn 213.857 Recovery = Not calculated  
 QC Failed. Continue with analysis.

Sequence No.: 212

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 3:13:23

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	141609.9	141609.9	97.0 %			03:13:57
1	Al 396.153Radial†	25900.5	26753.8	4938.0 µg/L		4938.0 ppb	03:13:57
1	Ca 317.933Radial†	84686.8	86709.6	4830.1 µg/L		4830.1 ppb	03:13:57
1	Fe 238.204 Radial†	75392.8	77544.5	4779.4 µg/L		4779.4 ppb	03:13:57
1	K 766.490 Radial†	14527.6	13426.0	4911.4 µg/L		4911.4 ppb	03:13:57
1	Mg 279.077 IEC†	12920.6	13124.0	4897.4 µg/L		4897.4 ppb	03:13:57
1	Na 589.592 Radial†	74132.9	75103.5	10256 µg/L		10256 ppb	03:13:57
1	Sr 421.552†	227259.6	234327.5	487.12 µg/L		487.12 ppb	03:13:55
1	Sc 361.383	1724519.1	1724519.1	100.37 %			03:14:24
1	Y 371.029	1016919.2	1016919.2	99.048 %			03:14:24
1	Ag 328.068†	131759.4	127186.5	476.91 µg/L		476.91 ppb	03:14:24
1	As 188.979†	1617.4	1631.9	500.43 µg/L		500.43 ppb	03:14:44
1	B 249.677†	35573.7	31937.8	469.37 µg/L		469.37 ppb	03:14:24
1	Ba 233.527†	118495.9	118198.7	476.69 µg/L		476.69 ppb	03:14:24
1	Be 313.107†	1772888.7	1767475.2	481.39 µg/L		481.39 ppb	03:14:24
1	Cd 226.502†	76042.0	75882.4	473.69 µg/L		473.69 ppb	03:14:24
1	Co 228.616†	38682.7	38731.7	478.14 µg/L		478.14 ppb	03:14:24
1	Cr 267.716†	60883.2	60482.1	473.56 µg/L		473.56 ppb	03:14:24
1	Cu 324.752†	125481.8	122051.1	475.79 µg/L		475.79 ppb	03:14:24
1	Mn 257.610†	388799.5	387141.5	478.80 µg/L		478.80 ppb	03:14:24
1	Mo 202.031†	16283.3	16243.8	477.82 µg/L		477.82 ppb	03:14:44
1	Ni 231.604†	41425.2	41350.3	476.12 µg/L		476.12 ppb	03:14:24
1	P 214.914†	11209.4	11186.4	2384.4 µg/L		2384.4 ppb	03:14:44
1	Pb 220.353†	8704.1	8585.9	480.80 µg/L		480.80 ppb	03:14:44
1	S 181.975 Axial†	1493.0	1382.4	1030.6 µg/L		1030.6 ppb	03:14:44
1	Sb 206.836†	4161.7	4065.7	484.45 µg/L		484.45 ppb	03:14:44
1	Se 196.026†	1343.1	1322.9	480 µg/L		480 ppb	03:14:44
1	SiO2†	54169.2	52195.9	5081.2 µg/L		5081.2 ppb	03:14:24
1	Si 251.611†	163798.3	162363.2	2384.2 µg/L		2384.2 ppb	03:14:24
1	Sn 189.927†	7708.8	7681.8	480.49 µg/L		480.49 ppb	03:14:44
1	Ti 334.940†	514144.0	511312.8	477.09 µg/L		477.09 ppb	03:14:24
1	Tl 190.801†	3782.7	3885.5	484.56 µg/L		484.56 ppb	03:14:44
1	U 409.014†	7391.9	7634.8	475.26 µg/L		475.26 ppb	03:14:24
1	V 292.402†	97528.5	96768.3	478.40 µg/L		478.40 ppb	03:14:24
1	Zn 213.857†	85289.7	84413.7	470.45 µg/L		470.45 ppb	03:14:24
2	Sc RADIAL	143935.9	143935.9	98.6 %			03:14:01
2	Al 396.153Radial†	26331.1	26759.0	4939.2 µg/L		4939.2 ppb	03:14:01
2	Ca 317.933Radial†	86594.3	87233.3	4859.2 µg/L		4859.2 ppb	03:14:01
2	Fe 238.204 Radial†	76913.8	77831.2	4797.0 µg/L		4797.0 ppb	03:14:01
2	K 766.490 Radial†	14816.5	13476.9	4930.0 µg/L		4930.0 ppb	03:14:01
2	Mg 279.077 IEC†	13220.5	13212.9	4930.4 µg/L		4930.4 ppb	03:14:01
2	Na 589.592 Radial†	75550.6	75306.4	10283 µg/L		10283 ppb	03:14:01
2	Sr 421.552†	228497.8	231798.4	481.86 µg/L		481.86 ppb	03:13:59
2	Sc 361.383	1738137.6	1738137.6	101.16 %			03:14:47
2	Y 371.029	1025437.7	1025437.7	99.878 %			03:14:47
2	Ag 328.068†	132376.0	126767.5	475.37 µg/L		475.37 ppb	03:14:47
2	As 188.979†	1591.5	1593.6	488.85 µg/L		488.85 ppb	03:15:07
2	B 249.677†	35851.5	31934.8	469.33 µg/L		469.33 ppb	03:14:47
2	Ba 233.527†	119360.5	118128.5	476.41 µg/L		476.41 ppb	03:14:47
2	Be 313.107†	1783349.2	1763975.7	480.43 µg/L		480.43 ppb	03:14:47
2	Cd 226.502†	76462.8	75704.7	472.58 µg/L		472.58 ppb	03:14:47
2	Co 228.616†	38867.0	38611.9	476.66 µg/L		476.66 ppb	03:14:47
2	Cr 267.716†	61200.5	60320.6	472.29 µg/L		472.29 ppb	03:14:47
2	Cu 324.752†	126080.6	121663.5	474.29 µg/L		474.29 ppb	03:14:47
2	Mn 257.610†	391256.7	386535.4	478.05 µg/L		478.05 ppb	03:14:47
2	Mo 202.031†	16230.4	16064.5	472.55 µg/L		472.55 ppb	03:15:07
2	Ni 231.604†	41463.0	41064.4	472.83 µg/L		472.83 ppb	03:14:47
2	P 214.914†	11143.5	11033.8	2351.8 µg/L		2351.8 ppb	03:15:07
2	Pb 220.353†	8645.1	8459.7	473.74 µg/L		473.74 ppb	03:15:07

2	S 181.975 Axial†	1480.0	1357.9	1012.4 µg/L	1012.4 ppb	03:15:07
2	Sb 206.836†	4116.5	3988.5	475.20 µg/L	475.20 ppb	03:15:07
2	Se 196.026†	1336.1	1305.6	474 µg/L	474 ppb	03:15:07
2	SiO2†	54693.6	52291.4	5090.8 µg/L	5090.8 ppb	03:14:47
2	Si 251.611†	165270.6	162539.9	2386.9 µg/L	2386.9 ppb	03:14:47
2	Sn 189.927†	7648.8	7562.3	473.03 µg/L	473.03 ppb	03:15:07
2	Ti 334.940†	517308.4	510427.2	476.26 µg/L	476.26 ppb	03:14:47
2	Tl 190.801†	3752.9	3826.6	477.32 µg/L	477.32 ppb	03:15:07
2	U 409.014†	7552.0	7735.3	481.16 µg/L	481.16 ppb	03:14:47
2	V 292.402†	98376.4	96845.2	478.71 µg/L	478.71 ppb	03:14:47
2	Zn 213.857†	86281.1	84727.8	472.24 µg/L	472.24 ppb	03:14:47
3	Sc RADIAL	140443.4	140443.4	96.2 %		03:14:05
3	Al 396.153Radial†	25676.7	26743.0	4936.2 µg/L	4936.2 ppb	03:14:05
3	Ca 317.933Radial†	83864.4	86579.9	4822.8 µg/L	4822.8 ppb	03:14:05
3	Fe 238.204 Radial†	74604.1	77370.4	4768.6 µg/L	4768.6 ppb	03:14:05
3	K 766.490 Radial†	14449.6	13469.3	4927.2 µg/L	4927.2 ppb	03:14:05
3	Mg 279.077 IEC†	12779.0	13087.5	4883.7 µg/L	4883.7 ppb	03:14:05
3	Na 589.592 Radial†	73771.5	75362.6	10291 µg/L	10291 ppb	03:14:05
3	Sr 421.552†	229430.1	238528.0	495.85 µg/L	495.85 ppb	03:14:03
3	Sc 361.383	1744274.4	1744274.4	101.52 %		03:15:10
3	Y 371.029	1028879.6	1028879.6	100.21 %		03:15:10
3	Ag 328.068†	133589.1	127502.1	478.11 µg/L	478.11 ppb	03:15:10
3	As 188.979†	1613.5	1609.8	493.74 µg/L	493.74 ppb	03:15:30
3	B 249.677†	36166.0	32119.8	472.05 µg/L	472.05 ppb	03:15:10
3	Ba 233.527†	120009.6	118352.7	477.31 µg/L	477.31 ppb	03:15:10
3	Be 313.107†	1795578.5	1769820.0	482.02 µg/L	482.02 ppb	03:15:10
3	Cd 226.502†	77434.5	76396.0	476.90 µg/L	476.90 ppb	03:15:10
3	Co 228.616†	39130.1	38735.9	478.19 µg/L	478.19 ppb	03:15:10
3	Cr 267.716†	61711.0	60610.6	474.57 µg/L	474.57 ppb	03:15:10
3	Cu 324.752†	126753.5	121887.8	475.15 µg/L	475.15 ppb	03:15:10
3	Mn 257.610†	393731.0	387612.0	479.39 µg/L	479.39 ppb	03:15:10
3	Mo 202.031†	16276.7	16053.6	472.23 µg/L	472.23 ppb	03:15:30
3	Ni 231.604†	41761.2	41213.9	474.55 µg/L	474.55 ppb	03:15:10
3	P 214.914†	11200.9	11051.6	2355.6 µg/L	2355.6 ppb	03:15:30
3	Pb 220.353†	8718.4	8501.8	476.10 µg/L	476.10 ppb	03:15:30
3	S 181.975 Axial†	1486.9	1359.7	1013.6 µg/L	1013.6 ppb	03:15:30
3	Sb 206.836†	4107.0	3964.8	472.37 µg/L	472.37 ppb	03:15:30
3	Se 196.026†	1339.3	1304.0	474 µg/L	474 ppb	03:15:30
3	SiO2†	55056.5	52458.7	5107.1 µg/L	5107.1 ppb	03:15:10
3	Si 251.611†	166125.1	162806.9	2390.8 µg/L	2390.8 ppb	03:15:10
3	Sn 189.927†	7727.3	7613.0	476.20 µg/L	476.20 ppb	03:15:30
3	Ti 334.940†	520001.8	511281.2	477.06 µg/L	477.06 ppb	03:15:10
3	Tl 190.801†	3778.8	3839.0	478.87 µg/L	478.87 ppb	03:15:30
3	U 409.014†	7370.2	7530.0	469.31 µg/L	469.31 ppb	03:15:10
3	V 292.402†	99255.0	97368.5	481.27 µg/L	481.27 ppb	03:15:10
3	Zn 213.857†	86767.5	84906.9	473.24 µg/L	473.24 ppb	03:15:10

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1735643.7	101.01 %	0.588			0.58%
Sc RADIAL	141996.4	97.3 %	1.22			1.25%
Y 371.029	1023745.5	99.713 %	0.5997			0.60%
Ag 328.068†	127152.0	476.79 µg/L	1.372	476.79 ppb	1.372	0.29%
QC value within limits for Ag 328.068 Recovery = 95.36%						
Al 396.153Radial†	26751.9	4937.8 µg/L	1.49	4937.8 ppb	1.49	0.03%
QC value within limits for Al 396.153Radial Recovery = 98.76%						
As 188.979†	1611.8	494.34 µg/L	5.814	494.34 ppb	5.814	1.18%
QC value within limits for As 188.979 Recovery = 98.87%						
B 249.677†	31997.5	470.25 µg/L	1.562	470.25 ppb	1.562	0.33%
QC value within limits for B 249.677 Recovery = 94.05%						
Ba 233.527†	118226.6	476.81 µg/L	0.463	476.81 ppb	0.463	0.10%
QC value within limits for Ba 233.527 Recovery = 95.36%						
Be 313.107†	1767090.3	481.28 µg/L	0.799	481.28 ppb	0.799	0.17%
QC value within limits for Be 313.107 Recovery = 96.26%						
Ca 317.933Radial†	86840.9	4837.4 µg/L	19.27	4837.4 ppb	19.27	0.40%
QC value within limits for Ca 317.933Radial Recovery = 96.75%						
Cd 226.502†	75994.4	474.39 µg/L	2.244	474.39 ppb	2.244	0.47%
QC value within limits for Cd 226.502 Recovery = 94.88%						
Co 228.616†	38693.1	477.67 µg/L	0.870	477.67 ppb	0.870	0.18%

QC value within limits for Co 228.616 Recovery = 95.53%							
Cr 267.716†	60471.1	473.47 µg/L	1.143	473.47 ppb	1.143	0.24%	
QC value within limits for Cr 267.716 Recovery = 94.69%							
Cu 324.752†	121867.4	475.08 µg/L	0.752	475.08 ppb	0.752	0.16%	
QC value within limits for Cu 324.752 Recovery = 95.02%							
Fe 238.204 Radial†	77582.0	4781.7 µg/L	14.34	4781.7 ppb	14.34	0.30%	
QC value within limits for Fe 238.204 Radial Recovery = 95.63%							
K 766.490 Radial†	13457.4	4922.9 µg/L	10.06	4922.9 ppb	10.06	0.20%	
QC value within limits for K 766.490 Radial Recovery = 98.46%							
Mg 279.077 IEC†	13141.5	4903.8 µg/L	24.00	4903.8 ppb	24.00	0.49%	
QC value within limits for Mg 279.077 IEC Recovery = 98.08%							
Mn 257.610†	387096.3	478.75 µg/L	0.669	478.75 ppb	0.669	0.14%	
QC value within limits for Mn 257.610 Recovery = 95.75%							
Mo 202.031†	16120.7	474.20 µg/L	3.139	474.20 ppb	3.139	0.66%	
QC value within limits for Mo 202.031 Recovery = 94.84%							
Na 589.592 Radial†	75257.5	10277 µg/L	18.6	10277 ppb	18.6	0.18%	
QC value within limits for Na 589.592 Radial Recovery = 102.77%							
Ni 231.604†	41209.5	474.50 µg/L	1.647	474.50 ppb	1.647	0.35%	
QC value within limits for Ni 231.604 Recovery = 94.90%							
P 214.914†	11090.6	2363.9 µg/L	17.85	2363.9 ppb	17.85	0.75%	
QC value within limits for P 214.914 Recovery = 94.56%							
Pb 220.353†	8515.8	476.88 µg/L	3.596	476.88 ppb	3.596	0.75%	
QC value within limits for Pb 220.353 Recovery = 95.38%							
S 181.975 Axial†	1366.7	1018.9 µg/L	10.18	1018.9 ppb	10.18	1.00%	
QC value within limits for S 181.975 Axial Recovery = 101.89%							
Sb 206.836†	4006.3	477.34 µg/L	6.318	477.34 ppb	6.318	1.32%	
QC value within limits for Sb 206.836 Recovery = 95.47%							
Se 196.026†	1310.8	476 µg/L	3.8	476 ppb	3.8	0.80%	
QC value within limits for Se 196.026 Recovery = 95.20%							
SiO2†	52315.3	5093.0 µg/L	13.10	5093.0 ppb	13.10	0.26%	
QC value within limits for SiO2 Recovery = 95.24%							
Si 251.611†	162570.0	2387.3 µg/L	3.34	2387.3 ppb	3.34	0.14%	
QC value within limits for Si 251.611 Recovery = 95.49%							
Sn 189.927†	7619.0	476.57 µg/L	3.740	476.57 ppb	3.740	0.78%	
QC value within limits for Sn 189.927 Recovery = 95.31%							
Sr 421.552†	234884.6	488.27 µg/L	7.067	488.27 ppb	7.067	1.45%	
QC value within limits for Sr 421.552 Recovery = 97.65%							
Ti 334.940†	511007.1	476.80 µg/L	0.473	476.80 ppb	0.473	0.10%	
QC value within limits for Ti 334.940 Recovery = 95.36%							
Tl 190.801†	3850.4	480.25 µg/L	3.815	480.25 ppb	3.815	0.79%	
QC value within limits for Tl 190.801 Recovery = 96.05%							
U 409.014†	7633.4	475.24 µg/L	5.925	475.24 ppb	5.925	1.25%	
QC value within limits for U 409.014 Recovery = 95.05%							
V 292.402†	96994.0	479.46 µg/L	1.574	479.46 ppb	1.574	0.33%	
QC value within limits for V 292.402 Recovery = 95.89%							
Zn 213.857†	84682.8	471.98 µg/L	1.410	471.98 ppb	1.410	0.30%	
QC value within limits for Zn 213.857 Recovery = 94.40%							
All analyte(s) passed QC.							

Sequence No.: 213

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 3:15:38

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	146013.2	146013.2	100 %		03:16:07
1	Al 396.153Radial†	-89.2	-25.9	-4.8031 µg/L	-4.8031 ppb	03:16:27
1	Ca 317.933Radial†	761.2	200.2	11.150 µg/L	11.150 ppb	03:16:27
1	Fe 238.204 Radial†	162.9	14.7	0.9060 µg/L	0.9060 ppb	03:16:27
1	K 766.490 Radial†	1654.3	108.5	39.646 µg/L	39.646 ppb	03:16:07
1	Mg 279.077 IEC†	192.8	2.0	0.7445 µg/L	0.7445 ppb	03:16:27
1	Na 589.592 Radial†	5426.7	4132.8	564.56 µg/L	564.56 ppb	03:16:07
1	Sr 421.552†	-218.9	-83.4	-0.1736 µg/L	-0.1736 ppb	03:16:07
1	Sc 361.383	1755516.5	1755516.5	102.17 %		03:17:15
1	Y 371.029	1046303.4	1046303.4	101.91 %		03:17:15
1	Ag 328.068†	4349.4	165.6	0.6100 µg/L	0.6100 ppb	03:17:17
1	As 188.979†	-32.6	-11.5	-3.4798 µg/L	-3.4798 ppb	03:17:37
1	B 249.677†	3627.4	44.4	0.6533 µg/L	0.6533 ppb	03:17:17
1	Ba 233.527†	-142.6	-3.7	-0.0155 µg/L	-0.0155 ppb	03:17:37
1	Be 313.107†	-765.9	315.0	0.0874 µg/L	0.0874 ppb	03:17:17
1	Cd 226.502†	-98.0	22.3	0.1390 µg/L	0.1390 ppb	03:17:37
1	Co 228.616†	-150.7	42.8	0.5276 µg/L	0.5276 ppb	03:17:37
1	Cr 267.716†	198.5	15.7	0.1183 µg/L	0.1183 ppb	03:17:37
1	Cu 324.752†	3047.8	10.9	0.0471 µg/L	0.0471 ppb	03:17:17
1	Mn 257.610†	326.4	82.2	0.1017 µg/L	0.1017 ppb	03:17:37
1	Mo 202.031†	-26.4	-5.8	-0.1704 µg/L	-0.1704 ppb	03:17:37
1	Ni 231.604†	-110.3	-31.4	-0.3616 µg/L	-0.3616 ppb	03:17:37
1	P 214.914†	-26.0	-7.5	-1.5967 µg/L	-1.5967 ppb	03:17:37
1	Pb 220.353†	82.4	-5.8	-0.3262 µg/L	-0.3262 ppb	03:17:37
1	S 181.975 Axial†	207.3	97.8	72.634 µg/L	72.634 ppb	03:17:37
1	Sb 206.836†	77.7	-4.8	-0.5732 µg/L	-0.5732 ppb	03:17:37
1	Se 196.026†	14.9	-0.7	-0.237 µg/L	-0.237 ppb	03:17:37
1	SiO2†	1831.7	17.5	1.7076 µg/L	1.7076 ppb	03:17:37
1	Si 251.611†	802.8	-50.8	-0.7486 µg/L	-0.7486 ppb	03:17:17
1	Sn 189.927†	3.5	4.5	0.2809 µg/L	0.2809 ppb	03:17:37
1	Ti 334.940†	712.4	-255.3	-0.2405 µg/L	-0.2405 ppb	03:17:17
1	Tl 190.801†	-96.0	22.8	2.7858 µg/L	2.7858 ppb	03:17:37
1	U 409.014†	-181.9	91.8	5.3242 µg/L	5.3242 ppb	03:17:17
1	V 292.402†	247.6	-161.5	-0.7853 µg/L	-0.7853 ppb	03:17:17
1	Zn 213.857†	614.2	36.7	0.2080 µg/L	0.2080 ppb	03:17:37
2	Sc RADIAL	141829.3	141829.3	97.2 %		03:16:29
2	Al 396.153Radial†	-77.3	-16.3	-3.0254 µg/L	-3.0254 ppb	03:16:49
2	Ca 317.933Radial†	693.9	153.4	8.5423 µg/L	8.5423 ppb	03:16:49
2	Fe 238.204 Radial†	133.5	-10.7	-0.6592 µg/L	-0.6592 ppb	03:16:49
2	K 766.490 Radial†	1842.1	350.6	128.27 µg/L	128.27 ppb	03:16:29
2	Mg 279.077 IEC†	213.2	28.7	10.681 µg/L	10.681 ppb	03:16:49
2	Na 589.592 Radial†	5347.1	4210.9	575.15 µg/L	575.15 ppb	03:16:29
2	Sr 421.552†	-126.7	4.9	0.0101 µg/L	0.0101 ppb	03:16:29
2	Sc 361.383	1757358.9	1757358.9	102.28 %		03:17:39
2	Y 371.029	1047817.2	1047817.2	102.06 %		03:17:39
2	Ag 328.068†	4203.5	18.4	0.0721 µg/L	0.0721 ppb	03:17:42
2	As 188.979†	-7.7	12.8	3.8720 µg/L	3.8720 ppb	03:18:02
2	B 249.677†	3621.3	34.7	0.5123 µg/L	0.5123 ppb	03:17:42
2	Ba 233.527†	-113.1	25.3	0.1018 µg/L	0.1018 ppb	03:18:02
2	Be 313.107†	-827.3	255.9	0.0718 µg/L	0.0718 ppb	03:17:42
2	Cd 226.502†	-109.0	11.6	0.0724 µg/L	0.0724 ppb	03:18:02
2	Co 228.616†	-206.5	-11.6	-0.1430 µg/L	-0.1430 ppb	03:18:02
2	Cr 267.716†	179.5	-3.1	-0.0299 µg/L	-0.0299 ppb	03:18:02
2	Cu 324.752†	2992.6	-46.2	-0.1738 µg/L	-0.1738 ppb	03:17:42
2	Mn 257.610†	319.5	75.1	0.0925 µg/L	0.0925 ppb	03:18:02
2	Mo 202.031†	-17.2	3.2	0.0951 µg/L	0.0951 ppb	03:18:02
2	Ni 231.604†	-94.1	-15.5	-0.1782 µg/L	-0.1782 ppb	03:18:02
2	P 214.914†	-17.1	1.3	0.2745 µg/L	0.2745 ppb	03:18:02
2	Pb 220.353†	67.0	-20.9	-1.1697 µg/L	-1.1697 ppb	03:18:02

2	S 181.975 Axial†	199.8	90.3	67.037 µg/L	67.037 ppb	03:18:02
2	Sb 206.836†	85.0	2.3	0.2720 µg/L	0.2720 ppb	03:18:02
2	Se 196.026†	11.9	-3.7	-1.31 µg/L	-1.31 ppb	03:18:02
2	SiO2†	1802.0	-13.5	-1.3278 µg/L	-1.3278 ppb	03:18:02
2	Si 251.611†	853.5	-2.1	-0.0332 µg/L	-0.0332 ppb	03:17:42
2	Sn 189.927†	2.7	3.8	0.2351 µg/L	0.2351 ppb	03:18:02
2	Ti 334.940†	1024.2	48.8	0.0421 µg/L	0.0421 ppb	03:17:42
2	Tl 190.801†	-77.9	40.5	4.9714 µg/L	4.9714 ppb	03:18:02
2	U 409.014†	-154.4	118.9	6.9321 µg/L	6.9321 ppb	03:17:42
2	V 292.402†	333.3	-77.9	-0.3746 µg/L	-0.3746 ppb	03:17:42
2	Zn 213.857†	602.9	25.1	0.1422 µg/L	0.1422 ppb	03:18:02
3	Sc RADIAL	143153.6	143153.6	98.1 %		03:16:51
3	Al 396.153Radial†	-75.1	-13.4	-2.4564 µg/L	-2.4564 ppb	03:17:11
3	Ca 317.933Radial†	714.7	168.0	9.3594 µg/L	9.3594 ppb	03:17:11
3	Fe 238.204 Radial†	146.0	0.7	0.0418 µg/L	0.0418 ppb	03:17:11
3	K 766.490 Radial†	1703.0	191.3	69.930 µg/L	69.930 ppb	03:16:51
3	Mg 279.077 IEC†	177.5	-9.7	-3.6301 µg/L	-3.6301 ppb	03:17:11
3	Na 589.592 Radial†	5368.9	4182.2	571.28 µg/L	571.28 ppb	03:16:51
3	Sr 421.552†	-157.6	-25.4	-0.0529 µg/L	-0.0529 ppb	03:16:51
3	Sc 361.383	1742509.2	1742509.2	101.41 %		03:18:04
3	Y 371.029	1039202.5	1039202.5	101.22 %		03:18:04
3	Ag 328.068†	4021.3	-126.2	-0.4729 µg/L	-0.4729 ppb	03:18:06
3	As 188.979†	-17.7	2.9	0.8639 µg/L	0.8639 ppb	03:18:26
3	B 249.677†	3474.3	-80.0	-1.1801 µg/L	-1.1801 ppb	03:18:06
3	Ba 233.527†	-135.7	2.0	0.0074 µg/L	0.0074 ppb	03:18:26
3	Be 313.107†	-1003.8	74.8	0.0214 µg/L	0.0214 ppb	03:18:06
3	Cd 226.502†	-66.8	52.3	0.3269 µg/L	0.3269 ppb	03:18:26
3	Co 228.616†	-182.8	10.1	0.1245 µg/L	0.1245 ppb	03:18:26
3	Cr 267.716†	178.6	-2.5	-0.0225 µg/L	-0.0225 ppb	03:18:26
3	Cu 324.752†	2996.2	-17.8	-0.0665 µg/L	-0.0665 ppb	03:18:06
3	Mn 257.610†	303.6	62.1	0.0770 µg/L	0.0770 ppb	03:18:26
3	Mo 202.031†	-36.1	-15.6	-0.4577 µg/L	-0.4577 ppb	03:18:26
3	Ni 231.604†	-76.5	1.0	0.0119 µg/L	0.0119 ppb	03:18:26
3	P 214.914†	-26.3	-8.0	-1.7122 µg/L	-1.7122 ppb	03:18:26
3	Pb 220.353†	16.7	-69.9	-3.9062 µg/L	-3.9062 ppb	03:18:26
3	S 181.975 Axial†	199.1	91.3	67.801 µg/L	67.801 ppb	03:18:26
3	Sb 206.836†	75.6	-6.2	-0.7491 µg/L	-0.7491 ppb	03:18:26
3	Se 196.026†	21.3	5.7	2.07 µg/L	2.07 ppb	03:18:26
3	SiO2†	1802.2	1.7	0.1875 µg/L	0.1875 ppb	03:18:26
3	Si 251.611†	978.5	128.3	1.8991 µg/L	1.8991 ppb	03:18:06
3	Sn 189.927†	-5.2	-4.0	-0.2499 µg/L	-0.2499 ppb	03:18:26
3	Ti 334.940†	957.8	-8.1	-0.0083 µg/L	-0.0083 ppb	03:18:06
3	Tl 190.801†	-79.3	38.5	4.7229 µg/L	4.7229 ppb	03:18:26
3	U 409.014†	-215.9	57.0	3.2904 µg/L	3.2904 ppb	03:18:06
3	V 292.402†	245.3	-161.9	-0.7924 µg/L	-0.7924 ppb	03:18:06
3	Zn 213.857†	594.0	21.4	0.1198 µg/L	0.1198 ppb	03:18:26

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1751794.9	101.95 %	0.471			0.46%
Sc RADIAL	143665.3	98.4 %	1.47			1.49%
Y 371.029	1044441.0	101.73 %	0.448			0.44%
Ag 328.068†	19.3	0.0697 µg/L	0.54146	0.0697 ppb	0.54146	776.48%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-18.5	-3.4283 µg/L	1.22412	-3.4283 ppb	1.22412	35.71%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.4	0.4187 µg/L	3.69605	0.4187 ppb	3.69605	882.73%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-0.3	-0.0048 µg/L	1.02026	-0.0048 ppb	1.02026	>999.9%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.9	0.0312 µg/L	0.06218	0.0312 ppb	0.06218	199.06%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	215.2	0.0602 µg/L	0.03450	0.0602 ppb	0.03450	57.32%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	173.8	9.6837 µg/L	1.33353	9.6837 ppb	1.33353	13.77%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	28.7	0.1794 µg/L	0.13199	0.1794 ppb	0.13199	73.56%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	13.8	0.1697 µg/L	0.33756	0.1697 ppb	0.33756	198.94%

Cr	267.716†	3.4	0.0219 µg/L	0.08351	0.0219 ppb	0.08351	380.68%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cu	324.752†	-17.7	-0.0644 µg/L	0.11047	-0.0644 ppb	0.11047	171.52%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	1.6	0.0962 µg/L	0.78405	0.0962 ppb	0.78405	815.18%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	216.8	79.281 µg/L	45.0446	79.281 ppb	45.0446	56.82%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	7.0	2.5984 µg/L	7.33330	2.5984 ppb	7.33330	282.23%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	73.1	0.0904 µg/L	0.01246	0.0904 ppb	0.01246	13.78%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	-6.0	-0.1777 µg/L	0.27645	-0.1777 ppb	0.27645	155.60%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	4175.3	570.33 µg/L	5.360	570.33 ppb	5.360	0.94%
QC value greater than the upper limit for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-15.3	-0.1760 µg/L	0.18678	-0.1760 ppb	0.18678	106.15%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-4.7	-1.0115 µg/L	1.11516	-1.0115 ppb	1.11516	110.25%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-32.2	-1.8007 µg/L	1.87157	-1.8007 ppb	1.87157	103.93%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	93.1	69.157 µg/L	3.0351	69.157 ppb	3.0351	4.39%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	-2.9	-0.3501 µg/L	0.54589	-0.3501 ppb	0.54589	155.93%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	0.5	0.172 µg/L	1.7265	0.172 ppb	1.7265	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		1.9	0.1891 µg/L	1.51771	0.1891 ppb	1.51771	802.57%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	25.1	0.3725 µg/L	1.36967	0.3725 ppb	1.36967	367.74%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	1.4	0.0887 µg/L	0.29412	0.0887 ppb	0.29412	331.60%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-34.7	-0.0721 µg/L	0.09333	-0.0721 ppb	0.09333	129.40%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	-71.5	-0.0689 µg/L	0.15073	-0.0689 ppb	0.15073	218.77%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	33.9	4.1600 µg/L	1.19656	4.1600 ppb	1.19656	28.76%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	89.3	5.1822 µg/L	1.82498	5.1822 ppb	1.82498	35.22%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-133.8	-0.6508 µg/L	0.23918	-0.6508 ppb	0.23918	36.75%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	27.7	0.1566 µg/L	0.04589	0.1566 ppb	0.04589	29.30%
QC value within limits for Zn 213.857 Recovery = Not calculated							
QC Failed. Continue with analysis.							



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Analysis Begun

Start Time: 4/1/2010 4:39:11

Plasma On Time: 3/29/2010 18:07:58

Logged In Analyst: optima4

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C0022701Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\033110.sif

Batch ID:

Results Data Set: 033110B

Results Library: C:\pe\optima4\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 4/1/2010 4:39:15

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: CCV

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143287.7	143287.7	98.2 %		04:39:48
1	Al 396.153Radial†	26097.1	26641.5	4917.1 µg/L	4917.1 ppb	04:39:48
1	Ca 317.933Radial†	85617.7	86635.8	4826.0 µg/L	4826.0 ppb	04:39:48
1	Fe 238.204 Radial†	76602.7	77867.1	4799.3 µg/L	4799.3 ppb	04:39:48
1	K 766.490 Radial†	14400.8	13121.5	4800.0 µg/L	4800.0 ppb	04:39:48
1	Mg 279.077 IEC†	13124.0	13175.3	4916.5 µg/L	4916.5 ppb	04:39:48
1	Na 589.592 Radial†	72250.3	72291.7	9871.7 µg/L	9871.7 ppb	04:39:48
1	Sr 421.552†	228422.2	232769.3	483.88 µg/L	483.88 ppb	04:39:46
1	Sc 361.383	1726307.9	1726307.9	100.47 %		04:40:15
1	Y 371.029	1017838.7	1017838.7	99.138 %		04:40:15
1	Ag 328.068†	131459.1	126751.6	475.29 µg/L	475.29 ppb	04:40:15
1	As 188.979†	1615.7	1628.5	499.42 µg/L	499.42 ppb	04:40:35
1	B 249.677†	35679.8	32006.7	470.38 µg/L	470.38 ppb	04:40:15
1	Ba 233.527†	118546.6	118126.9	476.40 µg/L	476.40 ppb	04:40:15
1	Be 313.107†	1779033.6	1771761.0	482.55 µg/L	482.55 ppb	04:40:15
1	Cd 226.502†	76138.3	75899.6	473.80 µg/L	473.80 ppb	04:40:15
1	Co 228.616†	38752.8	38761.5	478.51 µg/L	478.51 ppb	04:40:15
1	Cr 267.716†	60891.1	60427.2	473.15 µg/L	473.15 ppb	04:40:15
1	Cu 324.752†	125489.3	121928.9	475.31 µg/L	475.31 ppb	04:40:15
1	Mn 257.610†	389201.0	387139.7	478.80 µg/L	478.80 ppb	04:40:15
1	Mo 202.031†	16304.5	16248.1	477.95 µg/L	477.95 ppb	04:40:35
1	Ni 231.604†	41496.9	41378.9	476.45 µg/L	476.45 ppb	04:40:15
1	P 214.914†	11260.2	11225.4	2392.7 µg/L	2392.7 ppb	04:40:35
1	Pb 220.353†	8733.2	8605.9	481.93 µg/L	481.93 ppb	04:40:35
1	S 181.975 Axial†	1431.2	1319.5	983.83 µg/L	983.83 ppb	04:40:35
1	Sb 206.836†	4117.8	4017.7	478.76 µg/L	478.76 ppb	04:40:35
1	Se 196.026†	1330.5	1309.0	475 µg/L	475 ppb	04:40:35
1	SiO2†	54190.9	52161.5	5077.8 µg/L	5077.8 ppb	04:40:15
1	Si 251.611†	164264.5	162658.1	2388.5 µg/L	2388.5 ppb	04:40:15
1	Sn 189.927†	7744.6	7709.4	482.20 µg/L	482.20 ppb	04:40:35
1	Ti 334.940†	513495.3	510136.3	476.00 µg/L	476.00 ppb	04:40:15
1	Tl 190.801†	3787.9	3886.8	484.71 µg/L	484.71 ppb	04:40:35
1	U 409.014†	7087.0	7323.7	457.14 µg/L	457.14 ppb	04:40:15
1	V 292.402†	97888.5	97025.9	479.64 µg/L	479.64 ppb	04:40:15
1	Zn 213.857†	85804.6	84838.1	472.83 µg/L	472.83 ppb	04:40:15
2	Sc RADIAL	142551.2	142551.2	97.7 %		04:39:52
2	Al 396.153Radial†	25918.7	26596.2	4908.8 µg/L	4908.8 ppb	04:39:52
2	Ca 317.933Radial†	85143.9	86601.2	4824.0 µg/L	4824.0 ppb	04:39:52
2	Fe 238.204 Radial†	76012.3	77665.7	4786.8 µg/L	4786.8 ppb	04:39:52
2	K 766.490 Radial†	14216.0	13008.1	4758.5 µg/L	4758.5 ppb	04:39:52
2	Mg 279.077 IEC†	13129.0	13249.5	4944.1 µg/L	4944.1 ppb	04:39:52
2	Na 589.592 Radial†	71942.3	72356.6	9880.6 µg/L	9880.6 ppb	04:39:52
2	Sr 421.552†	228072.6	233613.4	485.63 µg/L	485.63 ppb	04:39:50
2	Sc 361.383	1732601.9	1732601.9	100.84 %		04:40:38
2	Y 371.029	1021854.8	1021854.8	99.529 %		04:40:38
2	Ag 328.068†	132036.8	126849.2	475.64 µg/L	475.64 ppb	04:40:38
2	As 188.979†	1613.9	1620.8	497.09 µg/L	497.09 ppb	04:40:58

2	B 249.677†	35753.7	31951.0	469.56 µg/L	469.56 ppb	04:40:38
2	Ba 233.527†	119080.4	118227.7	476.81 µg/L	476.81 ppb	04:40:38
2	Be 313.107†	1784759.1	1771006.5	482.34 µg/L	482.34 ppb	04:40:38
2	Cd 226.502†	76654.3	76136.1	475.28 µg/L	475.28 ppb	04:40:38
2	Co 228.616†	38853.1	38720.8	478.01 µg/L	478.01 ppb	04:40:38
2	Cr 267.716†	61138.8	60452.7	473.35 µg/L	473.35 ppb	04:40:38
2	Cu 324.752†	125614.8	121599.7	474.02 µg/L	474.02 ppb	04:40:38
2	Mn 257.610†	390618.9	387138.6	478.80 µg/L	478.80 ppb	04:40:38
2	Mo 202.031†	16345.0	16229.4	477.40 µg/L	477.40 ppb	04:40:58
2	Ni 231.604†	41628.9	41359.8	476.23 µg/L	476.23 ppb	04:40:38
2	P 214.914†	11287.1	11211.3	2389.8 µg/L	2389.8 ppb	04:40:58
2	Pb 220.353†	8756.9	8597.8	481.48 µg/L	481.48 ppb	04:40:58
2	S 181.975 Axial†	1433.6	1316.6	981.73 µg/L	981.73 ppb	04:40:58
2	Sb 206.836†	4163.7	4048.4	482.39 µg/L	482.39 ppb	04:40:58
2	Se 196.026†	1356.8	1330.3	483 µg/L	483 ppb	04:40:58
2	SiO2†	54513.7	52285.8	5090.0 µg/L	5090.0 ppb	04:40:38
2	Si 251.611†	164749.7	162545.4	2386.9 µg/L	2386.9 ppb	04:40:38
2	Sn 189.927†	7762.2	7698.9	481.55 µg/L	481.55 ppb	04:40:58
2	Ti 334.940†	515261.7	510031.4	475.90 µg/L	475.90 ppb	04:40:38
2	Tl 190.801†	3793.6	3878.7	483.72 µg/L	483.72 ppb	04:40:58
2	U 409.014†	6995.8	7207.6	450.31 µg/L	450.31 ppb	04:40:38
2	V 292.402†	98077.2	96859.1	478.82 µg/L	478.82 ppb	04:40:38
2	Zn 213.857†	86253.0	84972.5	473.59 µg/L	473.59 ppb	04:40:38
3	Sc RADIAL	145083.0	145083.0	99.4 %		04:39:56
3	Al 396.153Radial†	26230.8	26447.1	4880.9 µg/L	4880.9 ppb	04:39:56
3	Ca 317.933Radial†	86647.7	86592.8	4823.6 µg/L	4823.6 ppb	04:39:56
3	Fe 238.204 Radial†	77399.8	77703.5	4789.2 µg/L	4789.2 ppb	04:39:56
3	K 766.490 Radial†	14738.6	13279.9	4858.0 µg/L	4858.0 ppb	04:39:56
3	Mg 279.077 IEC†	13305.7	13192.7	4923.1 µg/L	4923.1 ppb	04:39:56
3	Na 589.592 Radial†	73184.6	72321.0	9875.6 µg/L	9875.6 ppb	04:39:56
3	Sr 421.552†	226923.1	228382.9	474.76 µg/L	474.76 ppb	04:39:54
3	Sc 361.383	1715600.7	1715600.7	99.848 %		04:41:01
3	Y 371.029	1011465.9	1011465.9	98.517 %		04:41:01
3	Ag 328.068†	131101.9	127210.5	477.01 µg/L	477.01 ppb	04:41:01
3	As 188.979†	1621.5	1644.3	504.20 µg/L	504.20 ppb	04:41:21
3	B 249.677†	35572.5	32120.8	472.07 µg/L	472.07 ppb	04:41:01
3	Ba 233.527†	117882.9	118198.6	476.69 µg/L	476.69 ppb	04:41:01
3	Be 313.107†	1768142.0	1771903.7	482.59 µg/L	482.59 ppb	04:41:01
3	Cd 226.502†	76042.9	76277.0	476.16 µg/L	476.16 ppb	04:41:01
3	Co 228.616†	38526.8	38775.8	478.69 µg/L	478.69 ppb	04:41:01
3	Cr 267.716†	60518.3	60432.1	473.17 µg/L	473.17 ppb	04:41:01
3	Cu 324.752†	124833.7	122051.9	475.80 µg/L	475.80 ppb	04:41:01
3	Mn 257.610†	387412.1	387765.8	479.57 µg/L	479.57 ppb	04:41:01
3	Mo 202.031†	16333.0	16378.0	481.77 µg/L	481.77 ppb	04:41:21
3	Ni 231.604†	41283.4	41422.9	476.95 µg/L	476.95 ppb	04:41:01
3	P 214.914†	11331.2	11366.5	2422.9 µg/L	2422.9 ppb	04:41:21
3	Pb 220.353†	8778.6	8705.6	487.49 µg/L	487.49 ppb	04:41:21
3	S 181.975 Axial†	1431.3	1328.5	990.54 µg/L	990.54 ppb	04:41:21
3	Sb 206.836†	4139.6	4065.1	484.45 µg/L	484.45 ppb	04:41:21
3	Se 196.026†	1365.1	1351.9	491 µg/L	491 ppb	04:41:21
3	SiO2†	53906.3	52213.2	5082.7 µg/L	5082.7 ppb	04:41:01
3	Si 251.611†	163125.7	162537.9	2386.7 µg/L	2386.7 ppb	04:41:01
3	Sn 189.927†	7757.8	7770.8	486.03 µg/L	486.03 ppb	04:41:21
3	Ti 334.940†	510802.1	510628.7	476.45 µg/L	476.45 ppb	04:41:01
3	Tl 190.801†	3813.8	3936.3	490.80 µg/L	490.80 ppb	04:41:21
3	U 409.014†	7313.0	7594.1	472.95 µg/L	472.95 ppb	04:41:01
3	V 292.402†	97247.2	96991.7	479.52 µg/L	479.52 ppb	04:41:01
3	Zn 213.857†	85421.1	84987.0	473.67 µg/L	473.67 ppb	04:41:01

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1724836.8	100.39 %	0.500			0.50%
Sc RADIAL	143640.6	98.4 %	0.89			0.91%
Y 371.029	1017053.1	99.061 %	0.5103			0.52%
Ag 328.068†	126937.1	475.98 µg/L	0.908	475.98 ppb	0.908	0.19%
QC value within limits for Ag 328.068 Recovery = 95.20%						
Al 396.153Radial†	26561.6	4902.3 µg/L	18.96	4902.3 ppb	18.96	0.39%
QC value within limits for Al 396.153Radial Recovery = 98.05%						
As 188.979†	1631.2	500.24 µg/L	3.626	500.24 ppb	3.626	0.72%

QC value within limits for As 188.979 Recovery = 100.05%							
B 249.677†	32026.2	470.67 µg/L	1.276	470.67 ppb	1.276	0.27%	
QC value within limits for B 249.677 Recovery = 94.13%							
Ba 233.527†	118184.4	476.64 µg/L	0.209	476.64 ppb	0.209	0.04%	
QC value within limits for Ba 233.527 Recovery = 95.33%							
Be 313.107†	1771557.1	482.49 µg/L	0.134	482.49 ppb	0.134	0.03%	
QC value within limits for Be 313.107 Recovery = 96.50%							
Ca 317.933Radial†	86610.0	4824.5 µg/L	1.27	4824.5 ppb	1.27	0.03%	
QC value within limits for Ca 317.933Radial Recovery = 96.49%							
Cd 226.502†	76104.3	475.08 µg/L	1.192	475.08 ppb	1.192	0.25%	
QC value within limits for Cd 226.502 Recovery = 95.02%							
Co 228.616†	38752.7	478.40 µg/L	0.352	478.40 ppb	0.352	0.07%	
QC value within limits for Co 228.616 Recovery = 95.68%							
Cr 267.716†	60437.3	473.22 µg/L	0.111	473.22 ppb	0.111	0.02%	
QC value within limits for Cr 267.716 Recovery = 94.64%							
Cu 324.752†	121860.2	475.04 µg/L	0.917	475.04 ppb	0.917	0.19%	
QC value within limits for Cu 324.752 Recovery = 95.01%							
Fe 238.204 Radial†	77745.4	4791.8 µg/L	6.60	4791.8 ppb	6.60	0.14%	
QC value within limits for Fe 238.204 Radial Recovery = 95.84%							
K 766.490 Radial†	13136.5	4805.5 µg/L	49.98	4805.5 ppb	49.98	1.04%	
QC value within limits for K 766.490 Radial Recovery = 96.11%							
Mg 279.077 IEC†	13205.8	4927.9 µg/L	14.43	4927.9 ppb	14.43	0.29%	
QC value within limits for Mg 279.077 IEC Recovery = 98.56%							
Mn 257.610†	387348.0	479.06 µg/L	0.448	479.06 ppb	0.448	0.09%	
QC value within limits for Mn 257.610 Recovery = 95.81%							
Mo 202.031†	16285.2	479.04 µg/L	2.378	479.04 ppb	2.378	0.50%	
QC value within limits for Mo 202.031 Recovery = 95.81%							
Na 589.592 Radial†	72323.1	9875.9 µg/L	4.46	9875.9 ppb	4.46	0.05%	
QC value within limits for Na 589.592 Radial Recovery = 98.76%							
Ni 231.604†	41387.2	476.54 µg/L	0.373	476.54 ppb	0.373	0.08%	
QC value within limits for Ni 231.604 Recovery = 95.31%							
P 214.914†	11267.7	2401.8 µg/L	18.34	2401.8 ppb	18.34	0.76%	
QC value within limits for P 214.914 Recovery = 96.07%							
Pb 220.353†	8636.4	483.63 µg/L	3.350	483.63 ppb	3.350	0.69%	
QC value within limits for Pb 220.353 Recovery = 96.73%							
S 181.975 Axial†	1321.5	985.37 µg/L	4.601	985.37 ppb	4.601	0.47%	
QC value within limits for S 181.975 Axial Recovery = 98.54%							
Sb 206.836†	4043.7	481.86 µg/L	2.883	481.86 ppb	2.883	0.60%	
QC value within limits for Sb 206.836 Recovery = 96.37%							
Se 196.026†	1330.4	483 µg/L	7.8	483 ppb	7.8	1.61%	
QC value within limits for Se 196.026 Recovery = 96.61%							
SiO2†	52220.2	5083.5 µg/L	6.12	5083.5 ppb	6.12	0.12%	
QC value within limits for SiO2 Recovery = 95.06%							
Si 251.611†	162580.5	2387.3 µg/L	1.01	2387.3 ppb	1.01	0.04%	
QC value within limits for Si 251.611 Recovery = 95.49%							
Sn 189.927†	7726.3	483.26 µg/L	2.422	483.26 ppb	2.422	0.50%	
QC value within limits for Sn 189.927 Recovery = 96.65%							
Sr 421.552†	231588.5	481.42 µg/L	5.838	481.42 ppb	5.838	1.21%	
QC value within limits for Sr 421.552 Recovery = 96.28%							
Ti 334.940†	510265.5	476.11 µg/L	0.294	476.11 ppb	0.294	0.06%	
QC value within limits for Ti 334.940 Recovery = 95.22%							
Tl 190.801†	3900.6	486.41 µg/L	3.834	486.41 ppb	3.834	0.79%	
QC value within limits for Tl 190.801 Recovery = 97.28%							
U 409.014†	7375.1	460.13 µg/L	11.614	460.13 ppb	11.614	2.52%	
QC value within limits for U 409.014 Recovery = 92.03%							
V 292.402†	96958.9	479.33 µg/L	0.445	479.33 ppb	0.445	0.09%	
QC value within limits for V 292.402 Recovery = 95.87%							
Zn 213.857†	84932.5	473.36 µg/L	0.461	473.36 ppb	0.461	0.10%	
QC value within limits for Zn 213.857 Recovery = 94.67%							
All analyte(s) passed QC.							

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 4:41:28

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	143373.6	143373.6	98.2 %		04:41:57
1	Al 396.153Radial†	-59.0	3.2	0.6063 µg/L	0.6063 ppb	04:42:17
1	Ca 317.933Radial†	610.3	60.6	3.3742 µg/L	3.3742 ppb	04:42:17
1	Fe 238.204 Radial†	143.9	-1.6	-0.1011 µg/L	-0.1011 ppb	04:42:17
1	K 766.490 Radial†	1628.1	112.4	41.110 µg/L	41.110 ppb	04:41:57
1	Mg 279.077 IEC†	185.8	-1.6	-0.5987 µg/L	-0.5987 ppb	04:42:17
1	Na 589.592 Radial†	2734.6	1492.5	203.86 µg/L	203.86 ppb	04:41:57
1	Sr 421.552†	-214.3	-82.8	-0.1722 µg/L	-0.1722 ppb	04:41:57
1	Sc 361.383	1732099.1	1732099.1	100.81 %		04:43:19
1	Y 371.029	1032748.2	1032748.2	100.59 %		04:43:19
1	Ag 328.068†	4008.6	-114.9	-0.4361 µg/L	-0.4361 ppb	04:43:21
1	As 188.979†	-17.1	3.4	1.0343 µg/L	1.0343 ppb	04:43:41
1	B 249.677†	3528.4	-5.8	-0.0861 µg/L	-0.0861 ppb	04:43:41
1	Ba 233.527†	-146.5	-9.4	-0.0381 µg/L	-0.0381 ppb	04:43:41
1	Be 313.107†	-845.1	226.4	0.0592 µg/L	0.0592 ppb	04:43:21
1	Cd 226.502†	-90.7	28.2	0.1764 µg/L	0.1764 ppb	04:43:41
1	Co 228.616†	-169.3	22.3	0.2757 µg/L	0.2757 ppb	04:43:41
1	Cr 267.716†	178.0	-2.0	-0.0096 µg/L	-0.0096 ppb	04:43:41
1	Cu 324.752†	2996.2	-0.0	-0.0066 µg/L	-0.0066 ppb	04:43:21
1	Mn 257.610†	282.8	43.2	0.0535 µg/L	0.0535 ppb	04:43:41
1	Mo 202.031†	-29.9	-9.5	-0.2805 µg/L	-0.2805 ppb	04:43:41
1	Ni 231.604†	-73.9	3.2	0.0369 µg/L	0.0369 ppb	04:43:41
1	P 214.914†	-36.9	-18.6	-3.9857 µg/L	-3.9857 ppb	04:43:41
1	Pb 220.353†	70.2	-16.8	-0.9308 µg/L	-0.9308 ppb	04:43:41
1	S 181.975 Axial†	133.9	27.8	20.636 µg/L	20.636 ppb	04:43:41
1	Sb 206.836†	78.1	-3.3	-0.3983 µg/L	-0.3983 ppb	04:43:41
1	Se 196.026†	32.9	17.4	6.28 µg/L	6.28 ppb	04:43:41
1	SiO2†	1779.2	-10.4	-1.0120 µg/L	-1.0120 ppb	04:43:41
1	Si 251.611†	845.5	2.1	0.0358 µg/L	0.0358 ppb	04:43:21
1	Sn 189.927†	-2.5	-1.4	-0.0870 µg/L	-0.0870 ppb	04:43:41
1	Ti 334.940†	882.6	-77.0	-0.0685 µg/L	-0.0685 ppb	04:43:21
1	Tl 190.801†	-105.8	11.7	1.4409 µg/L	1.4409 ppb	04:43:41
1	U 409.014†	-411.3	-138.2	-8.0813 µg/L	-8.0813 ppb	04:43:21
1	V 292.402†	394.9	-12.0	-0.0670 µg/L	-0.0670 ppb	04:43:21
1	Zn 213.857†	593.5	24.3	0.1361 µg/L	0.1361 ppb	04:43:41
2	Sc RADIAL	143802.0	143802.0	98.5 %		04:42:19
2	Al 396.153Radial†	-54.2	8.2	1.5220 µg/L	1.5220 ppb	04:42:39
2	Ca 317.933Radial†	610.8	59.2	3.2991 µg/L	3.2991 ppb	04:42:39
2	Fe 238.204 Radial†	141.6	-4.4	-0.2687 µg/L	-0.2687 ppb	04:42:39
2	K 766.490 Radial†	1509.8	-12.6	-4.6466 µg/L	-4.6466 ppb	04:42:19
2	Mg 279.077 IEC†	191.0	3.1	1.1672 µg/L	1.1672 ppb	04:42:39
2	Na 589.592 Radial†	2525.6	1272.1	173.79 µg/L	173.79 ppb	04:42:19
2	Sr 421.552†	-133.7	-0.4	-0.0008 µg/L	-0.0008 ppb	04:42:19
2	Sc 361.383	1725107.0	1725107.0	100.40 %		04:43:43
2	Y 371.029	1028743.2	1028743.2	100.20 %		04:43:43
2	Ag 328.068†	4338.9	230.2	0.8513 µg/L	0.8513 ppb	04:43:45
2	As 188.979†	-24.2	-3.8	-1.1405 µg/L	-1.1405 ppb	04:44:06
2	B 249.677†	3556.5	36.4	0.5369 µg/L	0.5369 ppb	04:44:06
2	Ba 233.527†	-138.7	-2.3	-0.0093 µg/L	-0.0093 ppb	04:44:06
2	Be 313.107†	-958.2	110.3	0.0305 µg/L	0.0305 ppb	04:43:45
2	Cd 226.502†	-124.6	-5.9	-0.0369 µg/L	-0.0369 ppb	04:44:06
2	Co 228.616†	-183.4	7.7	0.0945 µg/L	0.0945 ppb	04:44:06
2	Cr 267.716†	193.1	13.7	0.1062 µg/L	0.1062 ppb	04:44:06
2	Cu 324.752†	2935.8	-48.1	-0.1859 µg/L	-0.1859 ppb	04:43:45
2	Mn 257.610†	275.2	36.8	0.0455 µg/L	0.0455 ppb	04:44:06
2	Mo 202.031†	-24.3	-4.1	-0.1207 µg/L	-0.1207 ppb	04:44:06
2	Ni 231.604†	-96.5	-19.6	-0.2260 µg/L	-0.2260 ppb	04:44:06
2	P 214.914†	-28.9	-10.9	-2.3173 µg/L	-2.3173 ppb	04:44:06
2	Pb 220.353†	68.9	-17.7	-0.9902 µg/L	-0.9902 ppb	04:44:06

2	S 181.975 Axial†	144.6	39.0	28.959 µg/L	28.959 ppb	04:44:06
2	Sb 206.836†	82.8	1.6	0.1930 µg/L	0.1930 ppb	04:44:06
2	Se 196.026†	13.2	-2.1	-0.772 µg/L	-0.772 ppb	04:44:06
2	SiO2†	1774.3	-8.1	-0.7975 µg/L	-0.7975 ppb	04:44:06
2	Si 251.611†	687.2	-152.1	-2.2442 µg/L	-2.2442 ppb	04:43:45
2	Sn 189.927†	7.2	8.3	0.5190 µg/L	0.5190 ppb	04:44:06
2	Ti 334.940†	945.0	-11.3	-0.0112 µg/L	-0.0112 ppb	04:43:45
2	Tl 190.801†	-90.8	26.2	3.2215 µg/L	3.2215 ppb	04:44:06
2	U 409.014†	-245.8	25.1	1.4530 µg/L	1.4530 ppb	04:43:45
2	V 292.402†	358.7	-46.5	-0.2265 µg/L	-0.2265 ppb	04:43:45
2	Zn 213.857†	578.1	11.4	0.0658 µg/L	0.0658 ppb	04:44:06
3	Sc RADIAL	141813.5	141813.5	97.2 %		04:42:41
3	Al 396.153Radial†	-65.8	-4.5	-0.8345 µg/L	-0.8345 ppb	04:43:01
3	Ca 317.933Radial†	618.1	75.5	4.2049 µg/L	4.2049 ppb	04:43:01
3	Fe 238.204 Radial†	142.6	-1.4	-0.0853 µg/L	-0.0853 ppb	04:43:01
3	K 766.490 Radial†	1729.0	234.4	85.796 µg/L	85.796 ppb	04:42:41
3	Mg 279.077 IEC†	198.0	13.1	4.8715 µg/L	4.8715 ppb	04:43:01
3	Na 589.592 Radial†	2673.4	1460.2	199.40 µg/L	199.40 ppb	04:42:41
3	Sr 421.552†	-143.1	-12.0	-0.0250 µg/L	-0.0250 ppb	04:42:41
3	Sc 361.383	1732501.7	1732501.7	100.83 %		04:44:08
3	Y 371.029	1032645.9	1032645.9	100.58 %		04:44:08
3	Ag 328.068†	3993.4	-130.9	-0.4838 µg/L	-0.4838 ppb	04:44:10
3	As 188.979†	-18.1	2.4	0.7230 µg/L	0.7230 ppb	04:44:30
3	B 249.677†	3533.8	-1.3	-0.0196 µg/L	-0.0196 ppb	04:44:30
3	Ba 233.527†	-129.6	7.4	0.0296 µg/L	0.0296 ppb	04:44:30
3	Be 313.107†	-1067.5	6.0	0.0021 µg/L	0.0021 ppb	04:44:10
3	Cd 226.502†	-108.9	10.2	0.0637 µg/L	0.0637 ppb	04:44:30
3	Co 228.616†	-170.6	21.1	0.2607 µg/L	0.2607 ppb	04:44:30
3	Cr 267.716†	195.5	15.4	0.1189 µg/L	0.1189 ppb	04:44:30
3	Cu 324.752†	2879.6	-116.3	-0.4504 µg/L	-0.4504 ppb	04:44:10
3	Mn 257.610†	262.7	23.2	0.0286 µg/L	0.0286 ppb	04:44:30
3	Mo 202.031†	-19.1	1.1	0.0321 µg/L	0.0321 ppb	04:44:30
3	Ni 231.604†	-96.0	-18.7	-0.2148 µg/L	-0.2148 ppb	04:44:30
3	P 214.914†	-20.0	-1.8	-0.3852 µg/L	-0.3852 ppb	04:44:30
3	Pb 220.353†	56.6	-30.2	-1.6887 µg/L	-1.6887 ppb	04:44:30
3	S 181.975 Axial†	141.1	34.9	25.923 µg/L	25.923 ppb	04:44:30
3	Sb 206.836†	81.1	-0.4	-0.0510 µg/L	-0.0510 ppb	04:44:30
3	Se 196.026†	12.9	-2.5	-0.899 µg/L	-0.899 ppb	04:44:30
3	SiO2†	1779.3	-10.8	-1.0593 µg/L	-1.0593 ppb	04:44:30
3	Si 251.611†	861.9	18.2	0.2649 µg/L	0.2649 ppb	04:44:10
3	Sn 189.927†	5.8	6.8	0.4260 µg/L	0.4260 ppb	04:44:30
3	Ti 334.940†	938.4	-21.9	-0.0215 µg/L	-0.0215 ppb	04:44:10
3	Tl 190.801†	-79.9	37.4	4.5956 µg/L	4.5956 ppb	04:44:30
3	U 409.014†	-243.8	28.1	1.6356 µg/L	1.6356 ppb	04:44:10
3	V 292.402†	389.1	-17.9	-0.0856 µg/L	-0.0856 ppb	04:44:10
3	Zn 213.857†	585.6	16.3	0.0935 µg/L	0.0935 ppb	04:44:30

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1729902.6	100.68 %		0.242			0.24%
Sc RADIAL	142996.4	98.0 %		0.72			0.73%
Y 371.029	1031379.1	100.46 %		0.222			0.22%
Ag 328.068†	-5.2	-0.0229 µg/L		0.75745	-0.0229 ppb	0.75745	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	2.3	0.4313 µg/L		1.18793	0.4313 ppb	1.18793	275.45%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	0.7	0.2056 µg/L		1.17610	0.2056 ppb	1.17610	571.96%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	9.8	0.1437 µg/L		0.34209	0.1437 ppb	0.34209	237.99%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-1.4	-0.0059 µg/L		0.03400	-0.0059 ppb	0.03400	572.37%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	114.2	0.0306 µg/L		0.02853	0.0306 ppb	0.02853	93.24%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	65.1	3.6261 µg/L		0.50270	3.6261 ppb	0.50270	13.86%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	10.9	0.0678 µg/L		0.10671	0.0678 ppb	0.10671	157.49%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	17.0	0.2103 µg/L		0.10057	0.2103 ppb	0.10057	47.83%

Cr	267.716†	9.0	0.0718 µg/L	0.07083	0.0718 ppb	0.07083	98.61%
				QC value within limits for Cr 267.716 Recovery = Not calculated			
Cu	324.752†	-54.8	-0.2143 µg/L	0.22327	-0.2143 ppb	0.22327	104.19%
				QC value within limits for Cu 324.752 Recovery = Not calculated			
Fe	238.204 Radial†	-2.5	-0.1517 µg/L	0.10163	-0.1517 ppb	0.10163	67.00%
				QC value within limits for Fe 238.204 Radial Recovery = Not calculated			
K	766.490 Radial†	111.4	40.753 µg/L	45.2224	40.753 ppb	45.2224	110.97%
				QC value within limits for K 766.490 Radial Recovery = Not calculated			
Mg	279.077 IEC†	4.9	1.8133 µg/L	2.79173	1.8133 ppb	2.79173	153.96%
				QC value within limits for Mg 279.077 IEC Recovery = Not calculated			
Mn	257.610†	34.4	0.0425 µg/L	0.01273	0.0425 ppb	0.01273	29.95%
				QC value within limits for Mn 257.610 Recovery = Not calculated			
Mo	202.031†	-4.2	-0.1230 µg/L	0.15627	-0.1230 ppb	0.15627	127.01%
				QC value within limits for Mo 202.031 Recovery = Not calculated			
Na	589.592 Radial†	1408.3	192.35 µg/L	16.225	192.35 ppb	16.225	8.43%
				QC value within limits for Na 589.592 Radial Recovery = Not calculated			
Ni	231.604†	-11.7	-0.1346 µg/L	0.14863	-0.1346 ppb	0.14863	110.41%
				QC value within limits for Ni 231.604 Recovery = Not calculated			
P	214.914†	-10.5	-2.2294 µg/L	1.80186	-2.2294 ppb	1.80186	80.82%
				QC value within limits for P 214.914 Recovery = Not calculated			
Pb	220.353†	-21.6	-1.2032 µg/L	0.42148	-1.2032 ppb	0.42148	35.03%
				QC value within limits for Pb 220.353 Recovery = Not calculated			
S	181.975 Axial†	33.9	25.173 µg/L	4.2121	25.173 ppb	4.2121	16.73%
				QC value within limits for S 181.975 Axial Recovery = Not calculated			
Sb	206.836†	-0.7	-0.0854 µg/L	0.29713	-0.0854 ppb	0.29713	347.82%
				QC value within limits for Sb 206.836 Recovery = Not calculated			
Se	196.026†	4.3	1.54 µg/L	4.109	1.54 ppb	4.109	267.42%
				QC value within limits for Se 196.026 Recovery = Not calculated			
SiO2†		-9.8	-0.9563 µg/L	0.13954	-0.9563 ppb	0.13954	14.59%
				QC value within limits for SiO2 Recovery = Not calculated			
Si	251.611†	-43.9	-0.6479 µg/L	1.38724	-0.6479 ppb	1.38724	214.13%
				QC value within limits for Si 251.611 Recovery = Not calculated			
Sn	189.927†	4.6	0.2860 µg/L	0.32637	0.2860 ppb	0.32637	114.11%
				QC value within limits for Sn 189.927 Recovery = Not calculated			
Sr	421.552†	-31.7	-0.0660 µg/L	0.09279	-0.0660 ppb	0.09279	140.62%
				QC value within limits for Sr 421.552 Recovery = Not calculated			
Ti	334.940†	-36.7	-0.0337 µg/L	0.03052	-0.0337 ppb	0.03052	90.51%
				QC value within limits for Ti 334.940 Recovery = Not calculated			
Tl	190.801†	25.1	3.0860 µg/L	1.58170	3.0860 ppb	1.58170	51.25%
				QC value within limits for Tl 190.801 Recovery = Not calculated			
U	409.014†	-28.3	-1.6643 µg/L	5.55810	-1.6643 ppb	5.55810	333.97%
				QC value within limits for U 409.014 Recovery = Not calculated			
V	292.402†	-25.5	-0.1264 µg/L	0.08722	-0.1264 ppb	0.08722	69.01%
				QC value within limits for V 292.402 Recovery = Not calculated			
Zn	213.857†	17.4	0.0985 µg/L	0.03542	0.0985 ppb	0.03542	35.97%
				QC value within limits for Zn 213.857 Recovery = Not calculated			

All analyte(s) passed QC.

=====  
Analysis Begun

Start Time: 4/1/2010 4:59:00

Plasma On Time: 3/29/2010 18:07:58

Logged In Analyst: optima4

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C0022701Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\033110.sif

Batch ID:

Results Data Set: 033110B

Results Library: C:\pe\optima4\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 301

Sample ID: 248520002|962575|10

Date Collected: 4/1/2010 4:59:03

Analyst: HSC

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: 248520002|962575|10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	145071.9	145071.9	99.4 %		04:59:35
1	Al 396.153Radial†	29459.8	29697.2	5505.9 µg/L	5505.9 ppb	04:59:37
1	Ca 317.933Radial†	89332.8	89300.4	4974.4 µg/L	4974.4 ppb	04:59:37
1	Fe 238.204 Radial†	152249.1	153001.3	9430.1 µg/L	9430.1 ppb	04:59:35
1	K 766.490 Radial†	4943.1	3427.6	1252.6 µg/L	1252.6 ppb	04:59:37
1	Mg 279.077 IEC†	3537.7	3367.9	1246.7 µg/L	1246.7 ppb	04:59:37
1	Na 589.592 Radial†	2798.4	1524.1	207.10 µg/L	207.10 ppb	04:59:37
1	Sr 421.552†	14320.3	14540.2	30.189 µg/L	30.189 ppb	04:59:37
1	Sc 361.383	1738147.2	1738147.2	101.16 %		05:00:03
1	Y 371.029	1041423.9	1041423.9	101.44 %		05:00:03
1	Ag 328.068†	99169.3	93940.8	347.74 µg/L	347.74 ppb	05:00:03
1	As 188.979†	-9.8	10.6	6.2247 µg/L	6.2247 ppb	05:00:23
1	B 249.677†	4136.8	583.5	8.5980 µg/L	8.5980 ppb	05:00:23
1	Ba 233.527†	19934.4	19841.7	79.848 µg/L	79.848 ppb	05:00:23
1	Be 313.107†	2233.9	3273.0	0.8697 µg/L	0.8697 ppb	05:00:03
1	Cd 226.502†	122.9	239.7	0.5079 µg/L	0.5079 ppb	05:00:23
1	Co 228.616†	-10.9	179.5	1.8187 µg/L	1.8187 ppb	05:00:23
1	Cr 267.716†	12359.4	12039.2	94.584 µg/L	94.584 ppb	05:00:23
1	Cu 324.752†	6805.1	3754.8	15.942 µg/L	15.942 ppb	05:00:03
1	Mn 257.610†	277545.1	274125.5	339.10 µg/L	339.10 ppb	05:00:03
1	Mo 202.031†	-39.3	-18.8	-0.1492 µg/L	-0.1492 ppb	05:00:23
1	Ni 231.604†	338.5	411.1	4.7339 µg/L	4.7339 ppb	05:00:23
1	P 214.914†	1610.6	1610.1	339.07 µg/L	339.07 ppb	05:00:23
1	Pb 220.353†	409.6	318.5	18.129 µg/L	18.129 ppb	05:00:23
1	S 181.975 Axial†	1010.7	894.1	663.93 µg/L	663.93 ppb	05:00:23
1	Sb 206.836†	85.8	4.0	-1.0599 µg/L	-1.0599 ppb	05:00:23
1	Se 196.026†	9.9	-5.5	1.21 µg/L	1.21 ppb	05:00:23
1	SiO2†	59626.8	57167.8	5587.6 µg/L	5587.6 ppb	05:00:03
1	Si 251.611†	179609.2	176713.2	2605.2 µg/L	2605.2 ppb	05:00:03
1	Sn 189.927†	77.3	77.5	5.5169 µg/L	5.5169 ppb	05:00:23
1	Ti 334.940†	221072.3	217584.9	203.31 µg/L	203.31 ppb	05:00:03
1	Tl 190.801†	-155.4	-37.0	-1.4819 µg/L	-1.4819 ppb	05:00:23
1	U 409.014†	-1500.5	-1213.4	-69.591 µg/L	-69.591 ppb	05:00:03
1	V 292.402†	4731.6	4273.6	20.017 µg/L	20.017 ppb	05:00:23
1	Zn 213.857†	15915.6	15168.7	84.313 µg/L	84.313 ppb	05:00:23
2	Sc RADIAL	143942.6	143942.6	98.6 %		04:59:39
2	Al 396.153Radial†	29776.6	30250.9	5608.5 µg/L	5608.5 ppb	04:59:41
2	Ca 317.933Radial†	90566.2	91256.0	5083.3 µg/L	5083.3 ppb	04:59:41
2	Fe 238.204 Radial†	150303.5	152230.5	9382.6 µg/L	9382.6 ppb	04:59:39
2	K 766.490 Radial†	4963.4	3487.1	1274.3 µg/L	1274.3 ppb	04:59:41
2	Mg 279.077 IEC†	3528.0	3386.0	1253.5 µg/L	1253.5 ppb	04:59:41
2	Na 589.592 Radial†	2959.9	1710.0	232.47 µg/L	232.47 ppb	04:59:41
2	Sr 421.552†	14530.1	14866.0	30.866 µg/L	30.866 ppb	04:59:41
2	Sc 361.383	1740371.6	1740371.6	101.29 %		05:00:26
2	Y 371.029	1043501.1	1043501.1	101.64 %		05:00:26
2	Ag 328.068†	99486.8	94129.0	348.44 µg/L	348.44 ppb	05:00:26
2	As 188.979†	-13.1	7.4	5.2463 µg/L	5.2463 ppb	05:00:46



2	B 249.677†	4145.2	586.5	8.6439 µg/L	8.6439 ppb	05:00:46
2	Ba 233.527†	20077.2	19957.5	80.315 µg/L	80.315 ppb	05:00:46
2	Be 313.107†	1956.5	2996.3	0.7950 µg/L	0.7950 ppb	05:00:26
2	Cd 226.502†	129.4	245.9	0.5517 µg/L	0.5517 ppb	05:00:46
2	Co 228.616†	-39.6	151.3	1.4733 µg/L	1.4733 ppb	05:00:46
2	Cr 267.716†	12469.7	12132.4	95.311 µg/L	95.311 ppb	05:00:46
2	Cu 324.752†	6772.6	3714.2	15.778 µg/L	15.778 ppb	05:00:26
2	Mn 257.610†	278355.3	274574.7	339.66 µg/L	339.66 ppb	05:00:26
2	Mo 202.031†	-31.7	-11.2	0.0725 µg/L	0.0725 ppb	05:00:46
2	Ni 231.604†	335.8	408.1	4.6988 µg/L	4.6988 ppb	05:00:46
2	P 214.914†	1618.7	1616.1	340.40 µg/L	340.40 ppb	05:00:46
2	Pb 220.353†	417.7	326.0	18.556 µg/L	18.556 ppb	05:00:46
2	S 181.975 Axial†	1005.2	887.4	658.93 µg/L	658.93 ppb	05:00:46
2	Sb 206.836†	95.3	13.2	0.0289 µg/L	0.0289 ppb	05:00:46
2	Se 196.026†	5.1	-10.2	-0.499 µg/L	-0.499 ppb	05:00:46
2	SiO2†	59612.7	57078.5	5578.9 µg/L	5578.9 ppb	05:00:26
2	Si 251.611†	180019.7	176891.6	2607.9 µg/L	2607.9 ppb	05:00:26
2	Sn 189.927†	71.5	71.7	5.1566 µg/L	5.1566 ppb	05:00:46
2	Ti 334.940†	221794.3	218018.4	203.71 µg/L	203.71 ppb	05:00:26
2	Tl 190.801†	-142.8	-24.3	0.0877 µg/L	0.0877 ppb	05:00:46
2	U 409.014†	-1470.2	-1181.6	-67.696 µg/L	-67.696 ppb	05:00:26
2	V 292.402†	4804.1	4339.1	20.348 µg/L	20.348 ppb	05:00:46
2	Zn 213.857†	16038.5	15269.9	84.888 µg/L	84.888 ppb	05:00:46
3	Sc RADIAL	144669.0	144669.0	99.1 %		04:59:43
3	Al 396.153Radial†	29930.6	30254.7	5609.2 µg/L	5609.2 ppb	04:59:45
3	Ca 317.933Radial†	90897.8	91129.4	5076.3 µg/L	5076.3 ppb	04:59:45
3	Fe 238.204 Radial†	151580.4	152753.3	9414.8 µg/L	9414.8 ppb	04:59:43
3	K 766.490 Radial†	5035.9	3535.0	1291.9 µg/L	1291.9 ppb	04:59:45
3	Mg 279.077 IEC†	3710.4	3552.0	1315.4 µg/L	1315.4 ppb	04:59:45
3	Na 589.592 Radial†	2887.2	1621.6	220.38 µg/L	220.38 ppb	04:59:45
3	Sr 421.552†	14619.5	14882.2	30.899 µg/L	30.899 ppb	04:59:45
3	Sc 361.383	1766262.7	1766262.7	102.80 %		05:00:48
3	Y 371.029	1057296.4	1057296.4	102.98 %		05:00:48
3	Ag 328.068†	101060.1	94219.7	348.77 µg/L	348.77 ppb	05:00:48
3	As 188.979†	-18.7	2.2	3.6662 µg/L	3.6662 ppb	05:01:08
3	B 249.677†	4158.5	539.5	7.9500 µg/L	7.9500 ppb	05:01:08
3	Ba 233.527†	20009.6	19601.2	78.879 µg/L	78.879 ppb	05:01:08
3	Be 313.107†	2001.5	3011.8	0.7974 µg/L	0.7974 ppb	05:00:48
3	Cd 226.502†	120.9	235.8	0.4851 µg/L	0.4851 ppb	05:01:08
3	Co 228.616†	-28.1	163.0	1.6148 µg/L	1.6148 ppb	05:01:08
3	Cr 267.716†	12437.8	11920.9	93.659 µg/L	93.659 ppb	05:01:08
3	Cu 324.752†	6729.5	3574.2	15.236 µg/L	15.236 ppb	05:00:48
3	Mn 257.610†	283265.6	275323.0	340.58 µg/L	340.58 ppb	05:00:48
3	Mo 202.031†	-21.2	-0.6	0.3870 µg/L	0.3870 ppb	05:01:08
3	Ni 231.604†	331.1	398.6	4.5896 µg/L	4.5896 ppb	05:01:08
3	P 214.914†	1644.2	1617.4	340.66 µg/L	340.66 ppb	05:01:08
3	Pb 220.353†	436.5	338.2	19.243 µg/L	19.243 ppb	05:01:08
3	S 181.975 Axial†	994.9	862.8	640.71 µg/L	640.71 ppb	05:01:08
3	Sb 206.836†	106.6	22.8	1.1978 µg/L	1.1978 ppb	05:01:08
3	Se 196.026†	-1.1	-16.3	-2.71 µg/L	-2.71 ppb	05:01:08
3	SiO2†	60716.8	57289.9	5599.6 µg/L	5599.6 ppb	05:00:48
3	Si 251.611†	183589.5	177759.0	2620.7 µg/L	2620.7 ppb	05:00:48
3	Sn 189.927†	61.1	60.5	4.4607 µg/L	4.4607 ppb	05:01:08
3	Ti 334.940†	225561.2	218473.1	204.14 µg/L	204.14 ppb	05:00:48
3	Tl 190.801†	-143.9	-23.3	0.2042 µg/L	0.2042 ppb	05:01:08
3	U 409.014†	-1593.1	-1279.9	-73.463 µg/L	-73.463 ppb	05:00:48
3	V 292.402†	4807.8	4273.2	20.015 µg/L	20.015 ppb	05:01:08
3	Zn 213.857†	16033.0	15032.5	83.552 µg/L	83.552 ppb	05:01:08

Mean Data: 248520002|962575|10

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1748260.5	101.75 %	0.910			0.89%
Sc RADIAL	144561.2	99.1 %	0.39			0.40%
Y 371.029	1047407.1	102.02 %	0.840			0.82%
Ag 328.068†	94096.5	348.32 µg/L	0.524	348.32 ppb	0.524	0.15%
Al 396.153Radial†	30067.6	5574.5 µg/L	59.46	5574.5 ppb	59.46	1.07%
As 188.979†	6.7	5.0457 µg/L	1.29100	5.0457 ppb	1.29100	25.59%
B 249.677†	569.9	8.3973 µg/L	0.38807	8.3973 ppb	0.38807	4.62%
Ba 233.527†	19800.1	79.681 µg/L	0.7326	79.681 ppb	0.7326	0.92%



Be 313.107†	3093.7	0.8207 µg/L	0.04247	0.8207 ppb	0.04247	5.17%
Ca 317.933Radial†	90561.9	5044.7 µg/L	60.96	5044.7 ppb	60.96	1.21%
Cd 226.502†	240.5	0.5149 µg/L	0.03383	0.5149 ppb	0.03383	6.57%
Co 228.616†	164.6	1.6356 µg/L	0.17364	1.6356 ppb	0.17364	10.62%
Cr 267.716†	12030.8	94.518 µg/L	0.8279	94.518 ppb	0.8279	0.88%
Cu 324.752†	3681.1	15.652 µg/L	0.3694	15.652 ppb	0.3694	2.36%
Fe 238.204 Radial†	152661.7	9409.1 µg/L	24.25	9409.1 ppb	24.25	0.26%
K 766.490 Radial†	3483.2	1272.9 µg/L	19.67	1272.9 ppb	19.67	1.54%
Mg 279.077 IEC†	3435.3	1271.9 µg/L	37.81	1271.9 ppb	37.81	2.97%
Mn 257.610†	274674.4	339.78 µg/L	0.747	339.78 ppb	0.747	0.22%
Mo 202.031†	-10.2	0.1034 µg/L	0.26941	0.1034 ppb	0.26941	260.51%
Na 589.592 Radial†	1618.6	219.98 µg/L	12.691	219.98 ppb	12.691	5.77%
Ni 231.604†	405.9	4.6741 µg/L	0.07528	4.6741 ppb	0.07528	1.61%
P 214.914†	1614.5	340.04 µg/L	0.853	340.04 ppb	0.853	0.25%
Pb 220.353†	327.6	18.643 µg/L	0.5625	18.643 ppb	0.5625	3.02%
S 181.975 Axial†	881.4	654.52 µg/L	12.222	654.52 ppb	12.222	1.87%
Sb 206.836†	13.3	0.0556 µg/L	1.12911	0.0556 ppb	1.12911	>999.9%
Se 196.026†	-10.7	-0.667 µg/L	1.9692	-0.667 ppb	1.9692	295.30%
SiO2†	57178.7	5588.7 µg/L	10.37	5588.7 ppb	10.37	0.19%
Si 251.611†	177121.3	2611.3 µg/L	8.25	2611.3 ppb	8.25	0.32%
Sn 189.927†	69.9	5.0447 µg/L	0.53692	5.0447 ppb	0.53692	10.64%
Sr 421.552†	14762.8	30.651 µg/L	0.4006	30.651 ppb	0.4006	1.31%
Ti 334.940†	218025.5	203.72 µg/L	0.414	203.72 ppb	0.414	0.20%
Tl 190.801†	-28.2	-0.3967 µg/L	0.94167	-0.3967 ppb	0.94167	237.39%
U 409.014†	-1225.0	-70.250 µg/L	2.9394	-70.250 ppb	2.9394	4.18%
Concentration less than lower limit for U 409.014.						
V 292.402†	4295.3	20.126 µg/L	0.1916	20.126 ppb	0.1916	0.95%
Zn 213.857†	15157.0	84.251 µg/L	0.6701	84.251 ppb	0.6701	0.80%

Sequence No.: 2

Sample ID: 248520004|962575|10

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 302

Date Collected: 4/1/2010 5:01:17

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248520004|962575|10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143875.6	143875.6	98.6 %		05:01:47
1	Al 396.153Radial†	29162.5	29642.1	5495.6 µg/L	5495.6 ppb	05:01:49
1	Ca 317.933Radial†	83360.7	83990.3	4678.6 µg/L	4678.6 ppb	05:01:49
1	Fe 238.204 Radial†	120596.6	122170.3	7529.8 µg/L	7529.8 ppb	05:01:49
1	K 766.490 Radial†	5197.5	3726.9	1362.2 µg/L	1362.2 ppb	05:01:49
1	Mg 279.077 IEC†	3359.5	3216.7	1192.0 µg/L	1192.0 ppb	05:01:49
1	Na 589.592 Radial†	2957.7	1709.2	232.28 µg/L	232.28 ppb	05:01:49
1	Sr 421.552†	13494.1	13822.1	28.699 µg/L	28.699 ppb	05:01:49
1	Sc 361.383	1745386.8	1745386.8	101.58 %		05:02:15
1	Y 371.029	1047408.1	1047408.1	102.02 %		05:02:15
1	Ag 328.068†	90506.0	85005.7	314.69 µg/L	314.69 ppb	05:02:15
1	As 188.979†	-7.8	12.7	6.2752 µg/L	6.2752 ppb	05:02:35
1	B 249.677†	4065.5	496.3	7.3117 µg/L	7.3117 ppb	05:02:35
1	Ba 233.527†	18680.2	18525.3	74.567 µg/L	74.567 ppb	05:02:35
1	Be 313.107†	1857.4	2893.2	0.7689 µg/L	0.7689 ppb	05:02:15
1	Cd 226.502†	165.0	280.6	0.9631 µg/L	0.9631 ppb	05:02:35
1	Co 228.616†	-7.4	183.0	1.9528 µg/L	1.9528 ppb	05:02:35
1	Cr 267.716†	10440.8	10099.7	79.331 µg/L	79.331 ppb	05:02:35
1	Cu 324.752†	8559.2	5453.8	22.273 µg/L	22.273 ppb	05:02:15
1	Mn 257.610†	247419.5	243330.8	301.01 µg/L	301.01 ppb	05:02:15
1	Mo 202.031†	-26.7	-6.2	0.1440 µg/L	0.1440 ppb	05:02:35
1	Ni 231.604†	293.1	365.0	4.2030 µg/L	4.2030 ppb	05:02:35
1	P 214.914†	1494.5	1489.1	314.40 µg/L	314.40 ppb	05:02:35
1	Pb 220.353†	401.9	309.2	17.667 µg/L	17.667 ppb	05:02:35
1	S 181.975 Axial†	908.9	789.7	586.43 µg/L	586.43 ppb	05:02:35
1	Sb 206.836†	89.8	7.6	-0.3767 µg/L	-0.3767 ppb	05:02:35
1	Se 196.026†	2.0	-13.3	-2.27 µg/L	-2.27 ppb	05:02:35
1	SiO2†	58296.5	55613.7	5435.7 µg/L	5435.7 ppb	05:02:15
1	Si 251.611†	176410.0	172827.4	2548.0 µg/L	2548.0 ppb	05:02:15
1	Sn 189.927†	58.4	58.6	4.3422 µg/L	4.3422 ppb	05:02:35
1	Ti 334.940†	222649.2	218230.9	203.91 µg/L	203.91 ppb	05:02:15
1	Tl 190.801†	-149.2	-30.2	-0.7422 µg/L	-0.7422 ppb	05:02:35
1	U 409.014†	-1357.5	-1066.5	-60.842 µg/L	-60.842 ppb	05:02:15
1	V 292.402†	4648.4	4172.3	19.666 µg/L	19.666 ppb	05:02:35
1	Zn 213.857†	12521.1	11761.8	65.378 µg/L	65.378 ppb	05:02:35
2	Sc RADIAL	144092.6	144092.6	98.7 %		05:01:51
2	Al 396.153Radial†	29226.8	29662.7	5499.4 µg/L	5499.4 ppb	05:01:53
2	Ca 317.933Radial†	83180.3	83680.2	4661.3 µg/L	4661.3 ppb	05:01:53
2	Fe 238.204 Radial†	120417.5	121804.6	7507.3 µg/L	7507.3 ppb	05:01:53
2	K 766.490 Radial†	5127.7	3648.3	1333.5 µg/L	1333.5 ppb	05:01:53
2	Mg 279.077 IEC†	3374.5	3226.8	1195.8 µg/L	1195.8 ppb	05:01:53
2	Na 589.592 Radial†	2741.7	1485.8	201.79 µg/L	201.79 ppb	05:01:53
2	Sr 421.552†	13439.2	13745.8	28.540 µg/L	28.540 ppb	05:01:53
2	Sc 361.383	1756315.1	1756315.1	102.22 %		05:02:38
2	Y 371.029	1053941.1	1053941.1	102.65 %		05:02:38
2	Ag 328.068†	91260.4	85189.4	315.35 µg/L	315.35 ppb	05:02:38
2	As 188.979†	-3.7	16.8	7.5082 µg/L	7.5082 ppb	05:02:58
2	B 249.677†	4058.5	464.5	6.8443 µg/L	6.8443 ppb	05:02:58
2	Ba 233.527†	18736.9	18466.3	74.330 µg/L	74.330 ppb	05:02:58
2	Be 313.107†	1922.3	2945.3	0.7783 µg/L	0.7783 ppb	05:02:38
2	Cd 226.502†	170.3	284.8	0.9919 µg/L	0.9919 ppb	05:02:58
2	Co 228.616†	-28.6	162.3	1.6986 µg/L	1.6986 ppb	05:02:58
2	Cr 267.716†	10511.2	10104.6	79.381 µg/L	79.381 ppb	05:02:58
2	Cu 324.752†	8656.2	5496.2	22.422 µg/L	22.422 ppb	05:02:38
2	Mn 257.610†	249275.8	243631.3	301.38 µg/L	301.38 ppb	05:02:38
2	Mo 202.031†	-25.0	-4.4	0.1978 µg/L	0.1978 ppb	05:02:58
2	Ni 231.604†	332.8	402.1	4.6296 µg/L	4.6296 ppb	05:02:58
2	P 214.914†	1492.8	1478.4	312.10 µg/L	312.10 ppb	05:02:58
2	Pb 220.353†	411.8	316.5	18.086 µg/L	18.086 ppb	05:02:58

2	S 181.975 Axial†	916.1	791.2	587.51 µg/L	587.51 ppb	05:02:58
2	Sb 206.836†	103.1	20.1	1.1053 µg/L	1.1053 ppb	05:02:58
2	Se 196.026†	-4.9	-20.1	-4.74 µg/L	-4.74 ppb	05:02:58
2	SiO2†	58764.7	55714.6	5445.6 µg/L	5445.6 ppb	05:02:38
2	Si 251.611†	177443.7	172758.0	2546.9 µg/L	2546.9 ppb	05:02:38
2	Sn 189.927†	50.3	50.3	3.8240 µg/L	3.8240 ppb	05:02:58
2	Ti 334.940†	224247.6	218430.8	204.10 µg/L	204.10 ppb	05:02:38
2	Tl 190.801†	-159.1	-39.0	-1.8198 µg/L	-1.8198 ppb	05:02:58
2	U 409.014†	-1641.1	-1335.6	-76.574 µg/L	-76.574 ppb	05:02:38
2	V 292.402†	4656.6	4151.8	19.559 µg/L	19.559 ppb	05:02:58
2	Zn 213.857†	12589.8	11752.3	65.324 µg/L	65.324 ppb	05:02:58
3	Sc RADIAL	143281.9	143281.9	98.2 %		05:01:55
3	Al 396.153Radial†	29300.3	29905.0	5544.3 µg/L	5544.3 ppb	05:01:57
3	Ca 317.933Radial†	82951.5	83923.9	4674.9 µg/L	4674.9 ppb	05:01:57
3	Fe 238.204 Radial†	119806.3	121872.3	7511.5 µg/L	7511.5 ppb	05:01:57
3	K 766.490 Radial†	5178.8	3729.7	1363.2 µg/L	1363.2 ppb	05:01:57
3	Mg 279.077 IEC†	3350.5	3221.7	1193.9 µg/L	1193.9 ppb	05:01:57
3	Na 589.592 Radial†	2927.7	1691.0	229.80 µg/L	229.80 ppb	05:01:57
3	Sr 421.552†	13300.4	13681.5	28.406 µg/L	28.406 ppb	05:01:57
3	Sc 361.383	1768142.5	1768142.5	102.91 %		05:03:01
3	Y 371.029	1060160.5	1060160.5	103.26 %		05:03:01
3	Ag 328.068†	91772.7	85090.1	314.99 µg/L	314.99 ppb	05:03:01
3	As 188.979†	-4.2	16.2	7.3404 µg/L	7.3404 ppb	05:03:21
3	B 249.677†	4054.7	434.3	6.3986 µg/L	6.3986 ppb	05:03:21
3	Ba 233.527†	18727.9	18335.0	73.800 µg/L	73.800 ppb	05:03:21
3	Be 313.107†	1930.0	2940.2	0.7798 µg/L	0.7798 ppb	05:03:01
3	Cd 226.502†	162.3	275.9	0.9353 µg/L	0.9353 ppb	05:03:21
3	Co 228.616†	-38.7	152.7	1.5789 µg/L	1.5789 ppb	05:03:21
3	Cr 267.716†	10523.6	10047.9	78.930 µg/L	78.930 ppb	05:03:21
3	Cu 324.752†	8544.0	5330.5	21.786 µg/L	21.786 ppb	05:03:01
3	Mn 257.610†	251418.2	244081.9	301.93 µg/L	301.93 ppb	05:03:01
3	Mo 202.031†	-7.1	13.2	0.7123 µg/L	0.7123 ppb	05:03:21
3	Ni 231.604†	305.1	373.0	4.2951 µg/L	4.2951 ppb	05:03:21
3	P 214.914†	1474.3	1450.6	306.18 µg/L	306.18 ppb	05:03:21
3	Pb 220.353†	429.7	331.2	18.902 µg/L	18.902 ppb	05:03:21
3	S 181.975 Axial†	916.6	785.7	583.44 µg/L	583.44 ppb	05:03:21
3	Sb 206.836†	94.0	10.5	-0.0206 µg/L	-0.0206 ppb	05:03:21
3	Se 196.026†	6.2	-9.3	-0.817 µg/L	-0.817 ppb	05:03:21
3	SiO2†	59304.8	55854.9	5459.3 µg/L	5459.3 ppb	05:03:01
3	Si 251.611†	179092.8	173199.4	2553.4 µg/L	2553.4 ppb	05:03:01
3	Sn 189.927†	62.2	61.6	4.5286 µg/L	4.5286 ppb	05:03:21
3	Ti 334.940†	226185.4	218846.4	204.49 µg/L	204.49 ppb	05:03:01
3	Tl 190.801†	-150.4	-29.5	-0.6501 µg/L	-0.6501 ppb	05:03:21
3	U 409.014†	-1489.0	-1177.1	-67.316 µg/L	-67.316 ppb	05:03:01
3	V 292.402†	4639.9	4105.1	19.340 µg/L	19.340 ppb	05:03:21
3	Zn 213.857†	12520.1	11602.2	64.484 µg/L	64.484 ppb	05:03:21

Mean Data: 248520004|962575|10

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1756614.8	102.23 %	0.662			0.65%
Sc RADIAL	143750.0	98.5 %	0.29			0.29%
Y 371.029	1053836.6	102.64 %	0.621			0.61%
Ag 328.068†	85095.1	315.01 µg/L	0.330	315.01 ppb	0.330	0.10%
Al 396.153Radial†	29736.6	5513.1 µg/L	27.09	5513.1 ppb	27.09	0.49%
As 188.979†	15.2	7.0413 µg/L	0.66874	7.0413 ppb	0.66874	9.50%
B 249.677†	465.0	6.8515 µg/L	0.45659	6.8515 ppb	0.45659	6.66%
Ba 233.527†	18442.2	74.232 µg/L	0.3925	74.232 ppb	0.3925	0.53%
Be 313.107†	2926.2	0.7757 µg/L	0.00590	0.7757 ppb	0.00590	0.76%
Ca 317.933Radial†	83864.8	4671.6 µg/L	9.10	4671.6 ppb	9.10	0.19%
Cd 226.502†	280.5	0.9634 µg/L	0.02831	0.9634 ppb	0.02831	2.94%
Co 228.616†	166.0	1.7434 µg/L	0.19093	1.7434 ppb	0.19093	10.95%
Cr 267.716†	10084.1	79.214 µg/L	0.2476	79.214 ppb	0.2476	0.31%
Cu 324.752†	5426.8	22.160 µg/L	0.3325	22.160 ppb	0.3325	1.50%
Fe 238.204 Radial†	121949.1	7516.2 µg/L	11.99	7516.2 ppb	11.99	0.16%
K 766.490 Radial†	3701.6	1353.0 µg/L	16.91	1353.0 ppb	16.91	1.25%
Mg 279.077 IEC†	3221.8	1193.9 µg/L	1.90	1193.9 ppb	1.90	0.16%
Mn 257.610†	243681.3	301.44 µg/L	0.468	301.44 ppb	0.468	0.16%
Mo 202.031†	0.9	0.3513 µg/L	0.31374	0.3513 ppb	0.31374	89.30%
Na 589.592 Radial†	1628.7	221.29 µg/L	16.931	221.29 ppb	16.931	7.65%

Ni 231.604†	380.0	4.3759 µg/L	0.22446	4.3759 ppb	0.22446	5.13%
P 214.914†	1472.7	310.89 µg/L	4.240	310.89 ppb	4.240	1.36%
Pb 220.353†	319.0	18.218 µg/L	0.6280	18.218 ppb	0.6280	3.45%
S 181.975 Axial†	788.9	585.79 µg/L	2.105	585.79 ppb	2.105	0.36%
Sb 206.836†	12.7	0.2360 µg/L	0.77358	0.2360 ppb	0.77358	327.78%
Se 196.026†	-14.2	-2.61 µg/L	1.982	-2.61 ppb	1.982	75.97%
SiO2†	55727.7	5446.9 µg/L	11.83	5446.9 ppb	11.83	0.22%
Si 251.611†	172928.3	2549.4 µg/L	3.49	2549.4 ppb	3.49	0.14%
Sn 189.927†	56.8	4.2316 µg/L	0.36512	4.2316 ppb	0.36512	8.63%
Sr 421.552†	13749.8	28.548 µg/L	0.1462	28.548 ppb	0.1462	0.51%
Ti 334.940†	218502.7	204.17 µg/L	0.294	204.17 ppb	0.294	0.14%
Tl 190.801†	-32.9	-1.0707 µg/L	0.65036	-1.0707 ppb	0.65036	60.74%
U 409.014†	-1193.1	-68.244 µg/L	7.9070	-68.244 ppb	7.9070	11.59%
Concentration less than lower limit for U 409.014.						
V 292.402†	4143.1	19.522 µg/L	0.1664	19.522 ppb	0.1664	0.85%
Zn 213.857†	11705.4	65.062 µg/L	0.5013	65.062 ppb	0.5013	0.77%

Sequence No.: 3

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 5:03:28

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	142807.7	142807.7	97.9 %		05:04:01
1	Al 396.153Radial†	25827.6	26455.4	4882.8 µg/L	4882.8 ppb	05:04:01
1	Ca 317.933Radial†	85131.8	86432.4	4814.6 µg/L	4814.6 ppb	05:04:01
1	Fe 238.204 Radial†	76139.6	77656.0	4786.2 µg/L	4786.2 ppb	05:04:01
1	K 766.490 Radial†	14464.3	13235.7	4841.8 µg/L	4841.8 ppb	05:04:01
1	Mg 279.077 IEC†	13031.2	13125.4	4897.8 µg/L	4897.8 ppb	05:04:01
1	Na 589.592 Radial†	71380.8	71650.5	9784.0 µg/L	9784.0 ppb	05:04:01
1	Sr 421.552†	227350.2	232455.8	483.22 µg/L	483.22 ppb	05:03:59
1	Sc 361.383	1717799.5	1717799.5	99.976 %		05:04:14
1	Y 371.029	1012953.8	1012953.8	98.662 %		05:04:14
1	Ag 328.068†	130945.5	126886.0	475.82 µg/L	475.82 ppb	05:04:14
1	As 188.979†	1607.9	1628.6	499.44 µg/L	499.44 ppb	05:04:34
1	B 249.677†	35595.1	32097.9	471.73 µg/L	471.73 ppb	05:04:14
1	Ba 233.527†	118233.7	118398.3	477.50 µg/L	477.50 ppb	05:04:14
1	Be 313.107†	1774199.8	1775696.3	483.62 µg/L	483.62 ppb	05:04:14
1	Cd 226.502†	76081.9	76218.6	475.79 µg/L	475.79 ppb	05:04:14
1	Co 228.616†	38613.8	38813.5	479.15 µg/L	479.15 ppb	05:04:14
1	Cr 267.716†	60590.4	60426.6	473.13 µg/L	473.13 ppb	05:04:14
1	Cu 324.752†	125518.0	122576.4	477.83 µg/L	477.83 ppb	05:04:14
1	Mn 257.610†	388744.5	388601.9	480.61 µg/L	480.61 ppb	05:04:14
1	Mo 202.031†	16098.9	16122.9	474.27 µg/L	474.27 ppb	05:04:34
1	Ni 231.604†	41299.4	41386.0	476.53 µg/L	476.53 ppb	05:04:14
1	P 214.914†	11164.5	11185.1	2384.1 µg/L	2384.1 ppb	05:04:34
1	Pb 220.353†	8658.1	8573.8	480.12 µg/L	480.12 ppb	05:04:34
1	S 181.975 Axial†	1400.4	1295.7	966.14 µg/L	966.14 ppb	05:04:34
1	Sb 206.836†	4069.8	3989.9	475.40 µg/L	475.40 ppb	05:04:34
1	Se 196.026†	1337.9	1323.0	480 µg/L	480 ppb	05:04:34
1	SiO2†	54209.1	52446.9	5105.9 µg/L	5105.9 ppb	05:04:14
1	Si 251.611†	164159.3	163362.7	2399.0 µg/L	2399.0 ppb	05:04:14
1	Sn 189.927†	7642.2	7645.2	478.20 µg/L	478.20 ppb	05:04:34
1	Ti 334.940†	511471.4	510643.4	476.46 µg/L	476.46 ppb	05:04:14
1	Tl 190.801†	3776.4	3894.0	485.62 µg/L	485.62 ppb	05:04:34
1	U 409.014†	7331.2	7602.9	473.54 µg/L	473.54 ppb	05:04:14
1	V 292.402†	97611.9	97231.8	480.62 µg/L	480.62 ppb	05:04:14
1	Zn 213.857†	85344.1	84800.5	472.62 µg/L	472.62 ppb	05:04:14
2	Sc RADIAL	142177.1	142177.1	97.4 %		05:04:05
2	Al 396.153Radial†	25933.0	26680.7	4924.5 µg/L	4924.5 ppb	05:04:05
2	Ca 317.933Radial†	84882.8	86562.6	4821.9 µg/L	4821.9 ppb	05:04:05
2	Fe 238.204 Radial†	75981.4	77838.8	4797.5 µg/L	4797.5 ppb	05:04:05
2	K 766.490 Radial†	14617.1	13458.2	4923.2 µg/L	4923.2 ppb	05:04:05
2	Mg 279.077 IEC†	13046.8	13200.5	4925.8 µg/L	4925.8 ppb	05:04:05
2	Na 589.592 Radial†	71119.0	71705.3	9791.4 µg/L	9791.4 ppb	05:04:05
2	Sr 421.552†	226461.7	232574.3	483.47 µg/L	483.47 ppb	05:04:03
2	Sc 361.383	1718896.3	1718896.3	100.04 %		05:04:37
2	Y 371.029	1012872.8	1012872.8	98.654 %		05:04:37
2	Ag 328.068†	131183.7	127040.5	476.38 µg/L	476.38 ppb	05:04:37
2	As 188.979†	1601.5	1621.2	497.20 µg/L	497.20 ppb	05:04:57
2	B 249.677†	35702.0	32182.0	472.96 µg/L	472.96 ppb	05:04:37
2	Ba 233.527†	118547.9	118637.0	478.46 µg/L	478.46 ppb	05:04:37
2	Be 313.107†	1777707.2	1778070.0	484.27 µg/L	484.27 ppb	05:04:37
2	Cd 226.502†	76355.4	76443.4	477.19 µg/L	477.19 ppb	05:04:37
2	Co 228.616†	38719.9	38894.9	480.16 µg/L	480.16 ppb	05:04:37
2	Cr 267.716†	60616.0	60413.5	473.03 µg/L	473.03 ppb	05:04:37
2	Cu 324.752†	125459.3	122437.5	477.29 µg/L	477.29 ppb	05:04:37
2	Mn 257.610†	388816.5	388425.7	480.39 µg/L	480.39 ppb	05:04:37
2	Mo 202.031†	16138.4	16152.1	475.13 µg/L	475.13 ppb	05:04:57
2	Ni 231.604†	41418.0	41478.1	477.59 µg/L	477.59 ppb	05:04:37
2	P 214.914†	11169.5	11183.1	2383.7 µg/L	2383.7 ppb	05:04:57
2	Pb 220.353†	8675.4	8585.6	480.78 µg/L	480.78 ppb	05:04:57

2	S 181.975 Axial†	1419.5	1313.8	979.63 µg/L	979.63 ppb	05:04:57
2	Sb 206.836†	4079.9	3997.5	476.31 µg/L	476.31 ppb	05:04:57
2	Se 196.026†	1332.5	1316.7	478 µg/L	478 ppb	05:04:57
2	SiO2†	54300.2	52503.4	5111.4 µg/L	5111.4 ppb	05:04:37
2	Si 251.611†	164532.5	163631.0	2402.9 µg/L	2402.9 ppb	05:04:37
2	Sn 189.927†	7645.3	7643.4	478.09 µg/L	478.09 ppb	05:04:57
2	Ti 334.940†	511854.9	510700.3	476.52 µg/L	476.52 ppb	05:04:37
2	Tl 190.801†	3771.1	3886.3	484.66 µg/L	484.66 ppb	05:04:57
2	U 409.014†	7189.9	7456.9	465.01 µg/L	465.01 ppb	05:04:37
2	V 292.402†	97709.7	97267.3	480.79 µg/L	480.79 ppb	05:04:37
2	Zn 213.857†	85652.3	85054.1	474.04 µg/L	474.04 ppb	05:04:37
3	Sc RADIAL	142516.5	142516.5	97.7 %		05:04:10
3	Al 396.153Radial†	26016.1	26702.4	4928.5 µg/L	4928.5 ppb	05:04:10
3	Ca 317.933Radial†	85309.6	86792.2	4834.7 µg/L	4834.7 ppb	05:04:10
3	Fe 238.204 Radial†	76361.8	78042.5	4810.1 µg/L	4810.1 ppb	05:04:10
3	K 766.490 Radial†	14534.2	13337.5	4879.1 µg/L	4879.1 ppb	05:04:10
3	Mg 279.077 IEC†	13094.3	13217.2	4932.1 µg/L	4932.1 ppb	05:04:10
3	Na 589.592 Radial†	71498.7	71920.3	9820.8 µg/L	9820.8 ppb	05:04:10
3	Sr 421.552†	226956.2	232527.1	483.37 µg/L	483.37 ppb	05:04:07
3	Sc 361.383	1715888.7	1715888.7	99.864 %		05:05:00
3	Y 371.029	1012085.0	1012085.0	98.578 %		05:05:00
3	Ag 328.068†	130932.7	127019.0	476.29 µg/L	476.29 ppb	05:05:00
3	As 188.979†	1600.5	1623.0	497.74 µg/L	497.74 ppb	05:05:21
3	B 249.677†	35703.4	32246.0	473.91 µg/L	473.91 ppb	05:05:00
3	Ba 233.527†	118252.2	118548.6	478.10 µg/L	478.10 ppb	05:05:00
3	Be 313.107†	1772238.1	1775708.2	483.62 µg/L	483.62 ppb	05:05:00
3	Cd 226.502†	75982.3	76203.6	475.70 µg/L	475.70 ppb	05:05:00
3	Co 228.616†	38592.7	38835.4	479.42 µg/L	479.42 ppb	05:05:00
3	Cr 267.716†	60479.0	60382.5	472.79 µg/L	472.79 ppb	05:05:00
3	Cu 324.752†	125163.3	122361.0	476.99 µg/L	476.99 ppb	05:05:00
3	Mn 257.610†	387741.8	388030.8	479.90 µg/L	479.90 ppb	05:05:00
3	Mo 202.031†	16166.2	16208.2	476.78 µg/L	476.78 ppb	05:05:21
3	Ni 231.604†	41397.3	41530.0	478.19 µg/L	478.19 ppb	05:05:00
3	P 214.914†	11229.6	11262.8	2400.7 µg/L	2400.7 ppb	05:05:21
3	Pb 220.353†	8666.5	8591.9	481.14 µg/L	481.14 ppb	05:05:21
3	S 181.975 Axial†	1402.0	1298.8	968.50 µg/L	968.50 ppb	05:05:21
3	Sb 206.836†	4079.3	4004.1	477.12 µg/L	477.12 ppb	05:05:21
3	Se 196.026†	1348.8	1335.4	485 µg/L	485 ppb	05:05:21
3	SiO2†	54197.4	52495.6	5110.5 µg/L	5110.5 ppb	05:05:00
3	Si 251.611†	164034.6	163420.6	2399.8 µg/L	2399.8 ppb	05:05:00
3	Sn 189.927†	7674.5	7686.6	480.75 µg/L	480.75 ppb	05:05:21
3	Ti 334.940†	510082.1	509821.9	475.70 µg/L	475.70 ppb	05:05:00
3	Tl 190.801†	3787.1	3908.9	487.43 µg/L	487.43 ppb	05:05:21
3	U 409.014†	7110.7	7390.3	461.07 µg/L	461.07 ppb	05:05:00
3	V 292.402†	97399.7	97128.1	480.12 µg/L	480.12 ppb	05:05:00
3	Zn 213.857†	85456.2	85007.8	473.77 µg/L	473.77 ppb	05:05:00

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1717528.2	99.960 %	0.0886			0.09%
Sc RADIAL	142500.4	97.7 %	0.22			0.22%
Y 371.029	1012637.2	98.631 %	0.0467			0.05%
Ag 328.068†	126981.9	476.17 µg/L	0.302	476.17 ppb	0.302	0.06%
QC value within limits for Ag 328.068 Recovery = 95.23%						
Al 396.153Radial†	26612.8	4911.9 µg/L	25.30	4911.9 ppb	25.30	0.52%
QC value within limits for Al 396.153Radial Recovery = 98.24%						
As 188.979†	1624.3	498.13 µg/L	1.168	498.13 ppb	1.168	0.23%
QC value within limits for As 188.979 Recovery = 99.63%						
B 249.677†	32175.3	472.87 µg/L	1.095	472.87 ppb	1.095	0.23%
QC value within limits for B 249.677 Recovery = 94.57%						
Ba 233.527†	118528.0	478.02 µg/L	0.486	478.02 ppb	0.486	0.10%
QC value within limits for Ba 233.527 Recovery = 95.60%						
Be 313.107†	1776491.5	483.84 µg/L	0.372	483.84 ppb	0.372	0.08%
QC value within limits for Be 313.107 Recovery = 96.77%						
Ca 317.933Radial†	86595.7	4823.7 µg/L	10.15	4823.7 ppb	10.15	0.21%
QC value within limits for Ca 317.933Radial Recovery = 96.47%						
Cd 226.502†	76288.5	476.23 µg/L	0.839	476.23 ppb	0.839	0.18%
QC value within limits for Cd 226.502 Recovery = 95.25%						
Co 228.616†	38847.9	479.58 µg/L	0.520	479.58 ppb	0.520	0.11%

QC value within limits for Co 228.616	Recovery = 95.92%			
Cr 267.716†	60407.5	472.98 µg/L	0.173	472.98 ppb
QC value within limits for Cr 267.716	Recovery = 94.60%			
Cu 324.752†	122458.3	477.37 µg/L	0.427	477.37 ppb
QC value within limits for Cu 324.752	Recovery = 95.47%			
Fe 238.204 Radial†	77845.8	4797.9 µg/L	11.92	4797.9 ppb
QC value within limits for Fe 238.204 Radial	Recovery = 95.96%			
K 766.490 Radial†	13343.8	4881.4 µg/L	40.76	4881.4 ppb
QC value within limits for K 766.490 Radial	Recovery = 97.63%			
Mg 279.077 IEC†	13181.0	4918.5 µg/L	18.24	4918.5 ppb
QC value within limits for Mg 279.077 IEC	Recovery = 98.37%			
Mn 257.610†	388352.8	480.30 µg/L	0.362	480.30 ppb
QC value within limits for Mn 257.610	Recovery = 96.06%			
Mo 202.031†	16161.0	475.39 µg/L	1.275	475.39 ppb
QC value within limits for Mo 202.031	Recovery = 95.08%			
Na 589.592 Radial†	71758.7	9798.8 µg/L	19.47	9798.8 ppb
QC value within limits for Na 589.592 Radial	Recovery = 97.99%			
Ni 231.604†	41464.7	477.44 µg/L	0.840	477.44 ppb
QC value within limits for Ni 231.604	Recovery = 95.49%			
P 214.914†	11210.3	2389.5 µg/L	9.72	2389.5 ppb
QC value within limits for P 214.914	Recovery = 95.58%			
Pb 220.353†	8583.8	480.68 µg/L	0.522	480.68 ppb
QC value within limits for Pb 220.353	Recovery = 96.14%			
S 181.975 Axial†	1302.8	971.42 µg/L	7.208	971.42 ppb
QC value within limits for S 181.975 Axial	Recovery = 97.14%			
Sb 206.836†	3997.2	476.28 µg/L	0.861	476.28 ppb
QC value within limits for Sb 206.836	Recovery = 95.26%			
Se 196.026†	1325.0	481 µg/L	3.4	481 ppb
QC value within limits for Se 196.026	Recovery = 96.22%			
SiO2†	52482.0	5109.3 µg/L	2.96	5109.3 ppb
QC value within limits for SiO2	Recovery = 95.54%			
Si 251.611†	163471.4	2400.6 µg/L	2.08	2400.6 ppb
QC value within limits for Si 251.611	Recovery = 96.02%			
Sn 189.927†	7658.2	479.01 µg/L	1.501	479.01 ppb
QC value within limits for Sn 189.927	Recovery = 95.80%			
Sr 421.552†	232519.1	483.36 µg/L	0.124	483.36 ppb
QC value within limits for Sr 421.552	Recovery = 96.67%			
Ti 334.940†	510388.5	476.23 µg/L	0.458	476.23 ppb
QC value within limits for Ti 334.940	Recovery = 95.25%			
Tl 190.801†	3896.4	485.90 µg/L	1.405	485.90 ppb
QC value within limits for Tl 190.801	Recovery = 97.18%			
U 409.014†	7483.4	466.54 µg/L	6.373	466.54 ppb
QC value within limits for U 409.014	Recovery = 93.31%			
V 292.402†	97209.1	480.51 µg/L	0.345	480.51 ppb
QC value within limits for V 292.402	Recovery = 96.10%			
Zn 213.857†	84954.1	473.48 µg/L	0.754	473.48 ppb
QC value within limits for Zn 213.857	Recovery = 94.70%			

All analyte(s) passed QC.

Sequence No.: 4

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 5:05:28

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	145743.0	145743.0	99.9 %		05:05:57
1	Al 396.153Radial†	-25.5	37.7	6.9946 µg/L	6.9946 ppb	05:06:17
1	Ca 317.933Radial†	624.7	64.9	3.6148 µg/L	3.6148 ppb	05:06:17
1	Fe 238.204 Radial†	160.3	12.4	0.7656 µg/L	0.7656 ppb	05:06:17
1	K 766.490 Radial†	1619.2	76.5	27.962 µg/L	27.962 ppb	05:05:57
1	Mg 279.077 IEC†	177.4	-13.0	-4.8668 µg/L	-4.8668 ppb	05:06:17
1	Na 589.592 Radial†	2580.0	1292.5	176.54 µg/L	176.54 ppb	05:05:57
1	Sr 421.552†	-206.7	-71.7	-0.1490 µg/L	-0.1490 ppb	05:05:57
1	Sc 361.383	1758359.3	1758359.3	102.34 %		05:07:19
1	Y 371.029	1047204.1	1047204.1	102.00 %		05:07:19
1	Ag 328.068†	4319.7	129.7	0.4450 µg/L	0.4450 ppb	05:07:21
1	As 188.979†	-5.9	14.6	4.3999 µg/L	4.3999 ppb	05:07:41
1	B 249.677†	3629.0	40.2	0.5931 µg/L	0.5931 ppb	05:07:21
1	Ba 233.527†	-169.9	-30.2	-0.1218 µg/L	-0.1218 ppb	05:07:41
1	Be 313.107†	-1022.3	65.7	0.0101 µg/L	0.0101 ppb	05:07:21
1	Cd 226.502†	-89.3	30.9	0.1929 µg/L	0.1929 ppb	05:07:41
1	Co 228.616†	-193.1	1.7	0.0204 µg/L	0.0204 ppb	05:07:41
1	Cr 267.716†	166.1	-16.3	-0.1072 µg/L	-0.1072 ppb	05:07:41
1	Cu 324.752†	2915.1	-123.7	-0.5021 µg/L	-0.5021 ppb	05:07:21
1	Mn 257.610†	289.9	46.0	0.0571 µg/L	0.0571 ppb	05:07:41
1	Mo 202.031†	-26.5	-5.8	-0.1707 µg/L	-0.1707 ppb	05:07:41
1	Ni 231.604†	-96.2	-17.5	-0.2015 µg/L	-0.2015 ppb	05:07:41
1	P 214.914†	-38.6	-19.8	-4.2211 µg/L	-4.2211 ppb	05:07:41
1	Pb 220.353†	57.3	-30.4	-1.6754 µg/L	-1.6754 ppb	05:07:41
1	S 181.975 Axial†	137.0	28.8	21.413 µg/L	21.413 ppb	05:07:41
1	Sb 206.836†	81.3	-1.4	-0.1639 µg/L	-0.1639 ppb	05:07:41
1	Se 196.026†	14.5	-1.1	-0.428 µg/L	-0.428 ppb	05:07:41
1	SiO2†	1795.9	-20.4	-2.0072 µg/L	-2.0072 ppb	05:07:41
1	Si 251.611†	842.2	-13.6	-0.2043 µg/L	-0.2043 ppb	05:07:21
1	Sn 189.927†	14.5	15.3	0.9535 µg/L	0.9535 ppb	05:07:41
1	Ti 334.940†	896.1	-76.9	-0.0607 µg/L	-0.0607 ppb	05:07:21
1	Tl 190.801†	-107.4	11.8	1.4419 µg/L	1.4419 ppb	05:07:41
1	U 409.014†	-728.7	-442.1	-25.868 µg/L	-25.868 ppb	05:07:21
1	V 292.402†	356.0	-55.9	-0.2924 µg/L	-0.2924 ppb	05:07:21
1	Zn 213.857†	611.8	33.4	0.1892 µg/L	0.1892 ppb	05:07:41
2	Sc RADIAL	143898.7	143898.7	98.6 %		05:06:19
2	Al 396.153Radial†	-55.8	6.7	1.2330 µg/L	1.2330 ppb	05:06:39
2	Ca 317.933Radial†	606.4	54.4	3.0284 µg/L	3.0284 ppb	05:06:39
2	Fe 238.204 Radial†	158.8	12.9	0.7968 µg/L	0.7968 ppb	05:06:39
2	K 766.490 Radial†	1417.0	-107.8	-39.494 µg/L	-39.494 ppb	05:06:19
2	Mg 279.077 IEC†	183.4	-4.7	-1.7523 µg/L	-1.7523 ppb	05:06:39
2	Na 589.592 Radial†	2345.9	1088.2	148.69 µg/L	148.69 ppb	05:06:19
2	Sr 421.552†	-178.6	-45.8	-0.0953 µg/L	-0.0953 ppb	05:06:19
2	Sc 361.383	1742400.7	1742400.7	101.41 %		05:07:43
2	Y 371.029	1037760.1	1037760.1	101.08 %		05:07:43
2	Ag 328.068†	4154.9	5.9	0.0126 µg/L	0.0126 ppb	05:07:46
2	As 188.979†	-12.6	8.0	2.4108 µg/L	2.4108 ppb	05:08:06
2	B 249.677†	3668.4	111.6	1.6444 µg/L	1.6444 ppb	05:07:46
2	Ba 233.527†	-119.9	17.6	0.0702 µg/L	0.0702 ppb	05:08:06
2	Be 313.107†	-953.3	124.6	0.0347 µg/L	0.0347 ppb	05:07:46
2	Cd 226.502†	-98.5	21.1	0.1314 µg/L	0.1314 ppb	05:08:06
2	Co 228.616†	-169.6	23.1	0.2846 µg/L	0.2846 ppb	05:08:06
2	Cr 267.716†	210.1	28.6	0.2214 µg/L	0.2214 ppb	05:08:06
2	Cu 324.752†	3022.7	8.5	0.0356 µg/L	0.0356 ppb	05:07:46
2	Mn 257.610†	280.0	38.8	0.0481 µg/L	0.0481 ppb	05:08:06
2	Mo 202.031†	-19.8	0.6	0.0163 µg/L	0.0163 ppb	05:08:06
2	Ni 231.604†	-119.3	-41.2	-0.4741 µg/L	-0.4741 ppb	05:08:06
2	P 214.914†	-19.4	-1.2	-0.2554 µg/L	-0.2554 ppb	05:08:06
2	Pb 220.353†	78.8	-8.6	-0.4842 µg/L	-0.4842 ppb	05:08:06



2	S 181.975 Axial†	123.0	16.3	12.075 µg/L	12.075 ppb	05:08:06
2	Sb 206.836†	74.6	-7.2	-0.8639 µg/L	-0.8639 ppb	05:08:06
2	Se 196.026†	21.6	6.0	2.19 µg/L	2.19 ppb	05:08:06
2	SiO2†	1761.0	-38.8	-3.8022 µg/L	-3.8022 ppb	05:08:06
2	Si 251.611†	806.3	-41.5	-0.6147 µg/L	-0.6147 ppb	05:07:46
2	Sn 189.927†	5.9	6.9	0.4326 µg/L	0.4326 ppb	05:08:06
2	Ti 334.940†	926.6	-38.8	-0.0372 µg/L	-0.0372 ppb	05:07:46
2	Tl 190.801†	-119.0	-0.7	-0.0930 µg/L	-0.0930 ppb	05:08:06
2	U 409.014†	-227.2	45.8	2.6178 µg/L	2.6178 ppb	05:07:46
2	V 292.402†	193.5	-213.0	-1.0360 µg/L	-1.0360 ppb	05:07:46
2	Zn 213.857†	609.0	36.1	0.2058 µg/L	0.2058 ppb	05:08:06
3	Sc RADIAL	142638.4	142638.4	97.7 %		05:06:41
3	Al 396.153Radial†	-22.0	40.7	7.5557 µg/L	7.5557 ppb	05:07:01
3	Ca 317.933Radial†	630.0	84.0	4.6771 µg/L	4.6771 ppb	05:07:01
3	Fe 238.204 Radial†	132.8	-12.2	-0.7538 µg/L	-0.7538 ppb	05:07:01
3	K 766.490 Radial†	1613.6	106.1	38.801 µg/L	38.801 ppb	05:06:41
3	Mg 279.077 IEC†	175.0	-11.7	-4.3601 µg/L	-4.3601 ppb	05:07:01
3	Na 589.592 Radial†	2479.7	1246.1	170.20 µg/L	170.20 ppb	05:06:41
3	Sr 421.552†	-208.4	-77.9	-0.1620 µg/L	-0.1620 ppb	05:06:41
3	Sc 361.383	1738163.3	1738163.3	101.16 %		05:08:08
3	Y 371.029	1035970.5	1035970.5	100.90 %		05:08:08
3	Ag 328.068†	4302.8	162.0	0.5833 µg/L	0.5833 ppb	05:08:10
3	As 188.979†	-21.8	-1.2	-0.3610 µg/L	-0.3610 ppb	05:08:30
3	B 249.677†	3574.8	27.9	0.4114 µg/L	0.4114 ppb	05:08:10
3	Ba 233.527†	-149.0	-11.4	-0.0465 µg/L	-0.0465 ppb	05:08:30
3	Be 313.107†	-873.2	201.5	0.0526 µg/L	0.0526 ppb	05:08:10
3	Cd 226.502†	-120.0	-0.4	-0.0024 µg/L	-0.0024 ppb	05:08:30
3	Co 228.616†	-182.7	9.7	0.1193 µg/L	0.1193 ppb	05:08:30
3	Cr 267.716†	174.3	-6.2	-0.0433 µg/L	-0.0433 ppb	05:08:30
3	Cu 324.752†	2971.9	-34.4	-0.1402 µg/L	-0.1402 ppb	05:08:10
3	Mn 257.610†	245.6	5.5	0.0070 µg/L	0.0070 ppb	05:08:30
3	Mo 202.031†	-34.6	-14.1	-0.4150 µg/L	-0.4150 ppb	05:08:30
3	Ni 231.604†	-92.5	-15.0	-0.1724 µg/L	-0.1724 ppb	05:08:30
3	P 214.914†	-13.5	4.6	0.9950 µg/L	0.9950 ppb	05:08:30
3	Pb 220.353†	106.1	18.5	1.0399 µg/L	1.0399 ppb	05:08:30
3	S 181.975 Axial†	143.8	37.1	27.534 µg/L	27.534 ppb	05:08:30
3	Sb 206.836†	58.1	-23.4	-2.7867 µg/L	-2.7867 ppb	05:08:30
3	Se 196.026†	4.1	-11.2	-4.05 µg/L	-4.05 ppb	05:08:30
3	SiO2†	1756.7	-38.8	-3.7752 µg/L	-3.7752 ppb	05:08:30
3	Si 251.611†	899.3	52.4	0.7804 µg/L	0.7804 ppb	05:08:10
3	Sn 189.927†	-7.1	-5.9	-0.3704 µg/L	-0.3704 ppb	05:08:30
3	Ti 334.940†	1084.8	119.8	0.1155 µg/L	0.1155 ppb	05:08:10
3	Tl 190.801†	-119.1	-1.1	-0.1349 µg/L	-0.1349 ppb	05:08:30
3	U 409.014†	-403.1	-128.6	-7.5533 µg/L	-7.5533 ppb	05:08:10
3	V 292.402†	284.4	-122.7	-0.6080 µg/L	-0.6080 ppb	05:08:10
3	Zn 213.857†	580.8	9.7	0.0558 µg/L	0.0558 ppb	05:08:30

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1746307.8	101.63 %	0.620			0.61%
Sc RADIAL	144093.4	98.7 %	1.07			1.08%
Y 371.029	1040311.6	101.33 %	0.588			0.58%
Ag 328.068†	99.2	0.3470 µg/L	0.29770	0.3470 ppb	0.29770	85.80%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	28.3	5.2611 µg/L	3.49970	5.2611 ppb	3.49970	66.52%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	7.1	2.1499 µg/L	2.39113	2.1499 ppb	2.39113	111.22%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	59.9	0.8830 µg/L	0.66564	0.8830 ppb	0.66564	75.39%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-8.0	-0.0327 µg/L	0.09673	-0.0327 ppb	0.09673	295.93%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	130.6	0.0325 µg/L	0.02135	0.0325 ppb	0.02135	65.76%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	67.7	3.7735 µg/L	0.83573	3.7735 ppb	0.83573	22.15%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	17.2	0.1073 µg/L	0.09986	0.1073 ppb	0.09986	93.05%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	11.5	0.1414 µg/L	0.13348	0.1414 ppb	0.13348	94.37%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	2.0	0.0236 µg/L	0.17422	0.0236 ppb	0.17422 737.23%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	-49.9	-0.2022 µg/L	0.27414	-0.2022 ppb	0.27414 135.56%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	4.4	0.2695 µg/L	0.88639	0.2695 ppb	0.88639 328.85%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	24.9	9.0894 µg/L	42.42237	9.0894 ppb	42.42237 466.72%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	-9.8	-3.6597 µg/L	1.67122	-3.6597 ppb	1.67122 45.67%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	30.1	0.0374 µg/L	0.02669	0.0374 ppb	0.02669 71.39%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	-6.4	-0.1898 µg/L	0.21627	-0.1898 ppb	0.21627 113.95%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	1208.9	165.15 µg/L	14.597	165.15 ppb	14.597 8.84%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	-24.5	-0.2827 µg/L	0.16642	-0.2827 ppb	0.16642 58.87%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	-5.5	-1.1605 µg/L	2.72331	-1.1605 ppb	2.72331 234.67%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	-6.8	-0.3732 µg/L	1.36106	-0.3732 ppb	1.36106 364.65%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	27.4	20.340 µg/L	7.7851	20.340 ppb	7.7851 38.27%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	-10.7	-1.2715 µg/L	1.35806	-1.2715 ppb	1.35806 106.81%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	-2.1	-0.764 µg/L	3.1328	-0.764 ppb	3.1328 410.20%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	-32.7	-3.1949 µg/L	1.02864	-3.1949 ppb	1.02864 32.20%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	-0.9	-0.0129 µg/L	0.71695	-0.0129 ppb	0.71695 >999.9%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	5.4	0.3386 µg/L	0.66691	0.3386 ppb	0.66691 196.97%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	-65.1	-0.1354 µg/L	0.03536	-0.1354 ppb	0.03536 26.10%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	1.4	0.0059 µg/L	0.09568	0.0059 ppb	0.09568 >999.9%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	3.3	0.4047 µg/L	0.89852	0.4047 ppb	0.89852 222.02%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	-175.0	-10.268 µg/L	14.4354	-10.268 ppb	14.4354 140.59%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	-130.5	-0.6455 µg/L	0.37319	-0.6455 ppb	0.37319 57.82%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	26.4	0.1503 µg/L	0.08227	0.1503 ppb	0.08227 54.74%
	QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

## ICPMS #5 Daily Performance Report

### Sample ID: Sample

Sample Date/Time: Tuesday, April 13, 2010 11:33:12

### Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.1054

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	1541.9	1541.883	43.705	2.8
Mg	24.0	38738.9	38738.859	434.290	1.1
Co	58.9	63185.8	63185.831	373.250	0.6
Rh	102.9	123622.6	123622.601	766.014	0.6
In	114.9	178721.4	178721.441	1254.626	0.7
Pb	208.0	214246.1	214246.105	2038.893	1.0
[> Ba	137.9	169586.4	169586.427	957.403	0.6
[ Ba++	69.0	1987.6	0.012	0.000	2.3
[> Ce	139.9	205613.0	205612.974	1509.978	0.7
[ CeO	155.9	4192.2	0.020	0.000	2.1
Bkgd	220.0	19.8	19.800	2.564	13.0

### Current Optimization File Data

Current Value	Description
0.86	Nebulizer Gas Flow
6.75	Lens Voltage
1450.00	ICP RF Power
-1812.50	Analog Stage Voltage
1300.00	Pulse Stage Voltage
200.00	Discriminator Threshold
-6.00	AC Rod Offset

### Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	21	7.0	3372.1
Co	59	21	7.8	60333.1
In	115	21	9.5	172853.8

## ICPMS #5 Instrument Tuning Report

File Name: 100413.tun  
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	606	2072	0.540
Be	9.0	9.0	2061	2088	0.543
Mg	24.0	24.0	5699	2085	0.562
Mg	25.0	25.0	5939	2085	0.540
Mg	26.0	26.0	6187	2100	0.545
Co	58.9	59.0	14193	2125	0.528
Rh	102.9	102.9	24880	2180	0.530
In	114.9	114.9	27796	2200	0.535
Ce	139.9	139.9	33878	2220	0.547
Pb	206.0	206.0	49948	2305	0.522
Pb	207.0	207.0	50171	2240	0.593
Pb	208.0	208.0	50451	2280	0.636
U	238.1	238.0	57731	2295	0.641

## ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, April 13, 2010 18:56:12

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\Blank.179

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[ Be	9		ug/L			19
[> Sc	45		ug/L		445594	
[ Ni	60		ug/L		130	
[> Ge	74		ug/L		254044	
[ As	75		ug/L		-12	
[ Se	77		ug/L		3810	
[ Se	82		ug/L		-3	
[ Kr	83		ug/L		86	
[> Lu	175		ug/L		349004	
[ Tl	205		ug/L		2870	
[ U	238		ug/L		660	

### Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Simple Linear	
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Simple Linear	
As	75Simple Linear	
Se	77Simple Linear	
Se	82Simple Linear	
Kr	83Simple Linear	
Lu	175Linear Thru Zero	
Tl	205Simple Linear	
U	238Linear 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					
[ Ni	60					
[> Ge	74					
[ As	75					
[ Se	77					
[ Se	82					
[ Kr	83					
[> Lu	175					
[ Tl	205					
[ U	238					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: Blank

Report Date/Time: Tuesday, April 13, 2010 18:56:54

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, April 13, 2010 19:00:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nanl soil.mth

Dataset File: C:\elandata\Dataset\100413\Standard 1.180

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	10.000	ug/L	0.282	1604	0.004
[>	Sc	45		ug/L		444363	444363.334
[	Ni	60	10.000	ug/L	1.699	9645	0.021
[>	Ge	74		ug/L		252669	252669.102
	As	75	10.000	ug/L	5.043	6831	0.027
	Se	77		ug/L		4272	0.002
	Se	82	10.000	ug/L	1.966	709	0.003
[	Kr	83		ug/L		75	-0.000
[>	Lu	175		ug/L		350994	350993.990
	Ti	205	10.000	ug/L	3.157	164485	0.461
[	U	238	10.000	ug/L	0.649	401696	1.143

### 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	
Ti	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45					
[	Ni	60					
[>	Ge	74					
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
[>	Lu	175					
	Ti	205					
[	U	238					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: Standard 1

Report Date/Time: Tuesday, April 13, 2010 19:00:57

Page 1

QC Action Line: No QC out of limits detected



## ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, April 13, 2010 19:04:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100413\Standard 2.181

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	99.972	ug/L	4.421	15744	0.035
> Sc	45		ug/L		453169	453169.172
Ni	60	99.954	ug/L	2.681	92801	0.205
> Ge	74		ug/L		253890	253890.125
As	75	100.015	ug/L	1.222	69813	0.275
Se	77		ug/L		8695	0.019
Se	82	99.957	ug/L	1.179	6855	0.027
Kr	83		ug/L		107	0.000
> Lu	175		ug/L		355412	355412.036
Tl	205	99.902	ug/L	2.482	1491556	4.190
U	238	99.924	ug/L	1.001	3772659	10.613

### 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
U	238Linear 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					
Ni	60					
> Ge	74					
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175					
Tl	205					
U	238					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: Standard 2

Report Date/Time: Tuesday, April 13, 2010 19:05:00

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, April 13, 2010 19:08:23

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 1.182

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	50.493	ug/L	6.745	7924	0.018
[>	Sc	45		ug/L		451255	451254.648
[	Ni	60	51.423	ug/L	1.981	47617	0.105
[>	Ge	74		ug/L		254009	254009.371
	As	75	50.580	ug/L	3.327	35310	0.139
	Se	77		ug/L		6322	0.010
	Se	82	50.364	ug/L	3.025	3453	0.014
[	Kr	83		ug/L		93	0.000
[>	Lu	175		ug/L		356880	356880.491
	Tl	205	50.690	ug/L	2.329	761378	2.126
[	U	238	49.756	ug/L	1.818	1886294	5.285

### 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	1.0000
U	238	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	100.986					
[>	Sc	45		101.3				
[	Ni	60	102.846					
[>	Ge	74		100.0				
	As	75	101.160					
	Se	77						
	Se	82	100.729					
[	Kr	83						
[>	Lu	175		102.3				
	Tl	205	101.380					
[	U	238	99.512					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: QC Std 1

Report Date/Time: Tuesday, April 13, 2010 19:09:04

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, April 13, 2010 19:12:29

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 2.183

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.014	ug/L	87.945	21	0.000
> Sc	45		ug/L		448722	448722.472
Ni	60	-0.013	ug/L	68.509	119	-0.000
> Ge	74		ug/L		252383	252383.425
As	75	0.064	ug/L	175.229	33	0.000
Se	77		ug/L		3928	0.001
Se	82	0.249	ug/L	7.710	14	0.000
Kr	83		ug/L		83	-0.000
> Lu	175		ug/L		351120	351119.525
Tl	205	0.186	ug/L	3.717	5620	0.008
U	238	0.005	ug/L	19.904	865	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	1.0000
U	238Linear 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		100.7			
Ni	60					
> Ge	74		99.3			
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175		100.6			
Tl	205					
U	238					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: QC Std 2

Report Date/Time: Tuesday, April 13, 2010 19:13:12

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, April 13, 2010 19:16:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 3.184

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.662	ug/L	16.453	122	0.000
> Sc	45		ug/L		449650	449650.218
Ni	60	2.282	ug/L	3.948	2231	0.005
> Ge	74		ug/L		251355	251355.187
As	75	6.052	ug/L	2.311	4170	0.017
Se	77		ug/L		3672	-0.000
Se	82	5.772	ug/L	3.928	389	0.002
Kr	83		ug/L		79	-0.000
> Lu	175		ug/L		353165	353165.001
Tl	205	1.218	ug/L	1.671	20948	0.051
U	238	0.292	ug/L	2.945	11636	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	1.0000
U	238Linear Thru Zero	1.0000

### QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Be	9	132.467				
> Sc	45		100.9			
Ni	60	114.112				
> Ge	74		98.9			
As	75	121.035				
Se	77					
Se	82	115.432				
Kr	83					
> Lu	175		101.2			
Tl	205	121.846				
U	238	146.242				

### QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 3	Be	9CRDL is out of limits
QC Std 3	U	238CRDL is out of limits

Sample ID: QC Std 3

Report Date/Time: Tuesday, April 13, 2010 19:17:16

Page 1

## QC Action

QC Action Line: Continue



## ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, April 13, 2010 19:20:39

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 4.185

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.103	ug/L	50.064	33	0.000
>	Sc	45		ug/L		421635	421635.197
[	Ni	60	2.779	ug/L	2.051	2521	0.006
>	Ge	74		ug/L		231310	231310.332
	As	75	-0.361	ug/L	174.402	-243	-0.001
	Se	77		ug/L		4201	0.003
	Se	82	-1.049	ug/L	39.941	-69	-0.000
[	Kr	83		ug/L		172	0.000
>	Lu	175		ug/L		322577	322577.208
	Tl	205	-0.004	ug/L	70.177	2594	-0.000
[	U	238	-0.012	ug/L	0.726	204	-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	1.0000
U	238Linear Thru Zero	1.0000

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
>	Sc	45		94.6			
[	Ni	60	83.948				
>	Ge	74		91.1			
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
>	Lu	175		92.4			
	Tl	205					
[	U	238					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: QC Std 4

Report Date/Time: Tuesday, April 13, 2010 19:21:21

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, April 13, 2010 19:24:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 5.186

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	22.051	ug/L	10.901	3216	0.008
[>	Sc	45		ug/L		418038	418037.921
[	Ni	60	21.668	ug/L	3.166	18655	0.044
[>	Ge	74		ug/L		233103	233102.772
	As	75	20.576	ug/L	2.617	13177	0.057
	Se	77		ug/L		4507	0.004
	Se	82	20.866	ug/L	5.343	1311	0.006
[	Kr	83		ug/L		171	0.000
[>	Lu	175		ug/L		323073	323072.629
	Tl	205	19.336	ug/L	1.538	264615	0.811
[	U	238	21.379	ug/L	1.769	734175	2.271

### 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	1.0000
U	238	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	110.256					
[>	Sc	45		93.8				
[	Ni	60	92.955					
[>	Ge	74		91.8				
	As	75	102.879					
	Se	77						
	Se	82	104.331					
[	Kr	83						
[>	Lu	175		92.6				
	Tl	205	96.680					
[	U	238	106.895					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: QC Std 5

Report Date/Time: Tuesday, April 13, 2010 19:25:26

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, April 13, 2010 19:28:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 6.187

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	52.299	ug/L	6.742	8132	0.018
> Sc	45		ug/L		446886	446885.892
Ni	60	50.085	ug/L	3.133	45922	0.103
> Ge	74		ug/L		246224	246224.362
As	75	50.712	ug/L	2.285	34321	0.139
Se	77		ug/L		5995	0.009
Se	82	51.768	ug/L	5.984	3441	0.014
Kr	83		ug/L		84	0.000
> Lu	175		ug/L		349907	349906.710
Tl	205	49.372	ug/L	2.445	727303	2.071
U	238	49.990	ug/L	1.170	1858636	5.310

### 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
U	238Linear Thru Zero	1.0000

### QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Be	9	104.597				
> Sc	45		100.3			
Ni	60	100.170				
> Ge	74		96.9			
As	75	101.424				
Se	77					
Se	82	103.536				
Kr	83					
> Lu	175		100.3			
Tl	205	98.744				
U	238	99.980				

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: QC Std 6

Report Date/Time: Tuesday, April 13, 2010 19:29:31

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, April 13, 2010 19:32:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 7.188

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	-0.034	ug/L	57.982	13	-0.000
> Sc	45		ug/L		441514	441513.645
Li	60	-0.011	ug/L	111.503	119	-0.000
> Ge	74		ug/L		244978	244978.365
As	75	-0.092	ug/L	238.142	-72	-0.000
Se	77		ug/L		3767	0.000
Se	82	-0.012	ug/L	1142.349	-4	-0.000
Kr	83		ug/L		83	0.000
> Lu	175		ug/L		343676	343675.889
Tl	205	0.324	ug/L	2.992	7490	0.014
U	238	0.006	ug/L	19.101	885	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	1.0000
U	238Linear 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		99.1			
Li	60					
> Ge	74		96.4			
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175		98.5			
Tl	205					
U	238					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: QC Std 7

Report Date/Time: Tuesday, April 13, 2010 19:33:39

Page 1

QC Action Line: No QC out of limits detected



## ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 20:09:39

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.197

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	55.715	ug/L	7.601	8592	0.019
> Sc	45		ug/L		443949	443949.183
Ni	60	49.855	ug/L	1.908	45424	0.102
> Ge	74		ug/L		242696	242696.352
As	75	51.652	ug/L	1.568	34459	0.142
Se	77		ug/L		5623	0.008
Se	82	51.017	ug/L	2.354	3343	0.014
Kr	83		ug/L		79	-0.000
> Lu	175		ug/L		346303	346303.461
Tl	205	50.085	ug/L	1.936	730163	2.100
U	238	50.668	ug/L	0.998	1864231	5.382

### 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	1.0000
U	238	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	111.430				
> Sc	45		99.6			
Ni	60	99.710				
> Ge	74		95.5			
As	75	103.304				
Se	77					
Se	82	102.033				
Kr	83					
> Lu	175		99.2			
Tl	205	100.170				
U	238	101.336				

### QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Be	9	CCV is out of limits (+/- 10%)

Sample ID: QC Std 8

Report Date/Time: Tuesday, April 13, 2010 20:10:21

Page 1

## QC Action

QC Action Line: Continue

## ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 20:13:46

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.198

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[ Be	9	-0.003	ug/L	1295.742	18	-0.000
[> Sc	45		ug/L		440793	440793.036
[ Ni	60	-0.018	ug/L	54.025	113	-0.000
[> Ge	74		ug/L		241228	241227.718
As	75	0.184	ug/L	46.513	111	0.001
Se	77		ug/L		3187	-0.002
Se	82	0.679	ug/L	21.277	41	0.000
[ Kr	83		ug/L		74	-0.000
[> Lu	175		ug/L		340351	340351.139
Tl	205	0.214	ug/L	7.703	5845	0.009
[ U	238	0.005	ug/L	31.139	810	0.000

### 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
U	238Linear 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		98.9			
[ Ni	60					
[> Ge	74		95.0			
As	75					
Se	77					
Se	82					
[ Kr	83					
[> Lu	175		97.5			
Tl	205					
[ U	238					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: QC Std 9

Report Date/Time: Tuesday, April 13, 2010 20:14:29

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 20:42:22

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.205

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	54.759	ug/L	4.874	8274	0.019
Sc	45		ug/L		434593	434592.615
Ni	60	48.638	ug/L	1.610	43384	0.100
Ge	74		ug/L		236941	236940.810
As	75	51.247	ug/L	3.030	33367	0.141
Se	77		ug/L		5279	0.007
Se	82	53.315	ug/L	4.185	3408	0.014
Kr	83		ug/L		91	0.000
Lu	175		ug/L		339645	339644.555
Tl	205	49.628	ug/L	2.432	709571	2.081
U	238	50.501	ug/L	1.194	1822195	5.364

### 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
U	238Linear Thru Zero	1.0000

### QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Be	9	109.517				
Sc	45		97.5			
Ni	60	97.277				
Ge	74		93.3			
As	75	102.494				
Se	77					
Se	82	106.630				
Kr	83					
Lu	175		97.3			
Tl	205	99.256				
U	238	101.002				

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: QC Std 8

Report Date/Time: Tuesday, April 13, 2010 20:43:04

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 20:46:28

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.206

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.004	ug/L	872.528	19	0.000
[>	Sc	45		ug/L		430488	430487.529
[	Ni	60	-0.021	ug/L	62.894	107	-0.000
[>	Ge	74		ug/L		235273	235273.278
	As	75	0.335	ug/L	106.950	204	0.001
	Se	77		ug/L		3031	-0.002
	Se	82	1.568	ug/L	42.431	97	0.000
[	Kr	83		ug/L		78	-0.000
[>	Lu	175		ug/L		338574	338574.449
	Tl	205	0.187	ug/L	6.245	5440	0.008
[	U	238	0.005	ug/L	27.419	815	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	1.0000
U	238	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		96.6				
[	Ni	60						
[>	Ge	74		92.6				
	As	75						
	Se	77						
	Se	82						
[	Kr	83						
[>	Lu	175		97.0				
	Tl	205						
[	U	238						

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: QC Std 9

Report Date/Time: Tuesday, April 13, 2010 20:47:11

Page 1

QC Action Line: No QC out of limits detected



## ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 21:19:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.214

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[ Be	9	54.357	ug/L	6.822	8443	0.019
[ > Sc	45		ug/L		446968	446968.450
[ Ni	60	48.657	ug/L	1.021	44640	0.100
[ > Ge	74		ug/L		244811	244811.344
[ As	75	50.472	ug/L	1.342	33965	0.139
[ Se	77		ug/L		5438	0.007
[ Se	82	51.092	ug/L	2.757	3377	0.014
[ Kr	83		ug/L		94	0.000
[ > Lu	175		ug/L		342022	342021.972
[ Tl	205	50.446	ug/L	1.529	726226	2.116
[ U	238	51.043	ug/L	2.664	1854277	5.421

### 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
U	238Linear Thru Zero	1.0000

### QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[ Be	9	108.714					
[ > Sc	45		100.3				
[ Ni	60	97.314					
[ > Ge	74		96.4				
[ As	75	100.944					
[ Se	77						
[ Se	82	102.185					
[ Kr	83						
[ > Lu	175		98.0				
[ Tl	205	100.891					
[ U	238	102.087					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: QC Std 8

Report Date/Time: Tuesday, April 13, 2010 21:19:53

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 21:23:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.215

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	-0.002	ug/L	878.977	18	-0.000
[>	Sc	45		ug/L		446443	446443.357
[	Ni	60	-0.024	ug/L	35.726	108	-0.000
[>	Ge	74		ug/L		242490	242490.488
	As	75	0.115	ug/L	82.812	65	0.000
	Se	77		ug/L		3054	-0.002
	Se	82	0.436	ug/L	98.704	25	0.000
[	Kr	83		ug/L		79	-0.000
[>	Lu	175		ug/L		339061	339061.237
	Tl	205	0.169	ug/L	11.493	5192	0.007
[	U	238	0.005	ug/L	11.025	815	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	1.0000
U	238	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		100.2				
[	Ni	60						
[>	Ge	74		95.5				
	As	75						
	Se	77						
	Se	82						
[	Kr	83						
[>	Lu	175		97.2				
	Tl	205						
[	U	238						

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: QC Std 9

Report Date/Time: Tuesday, April 13, 2010 21:24:01

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 22:00:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.224

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	54.402	ug/L	9.487	8260	0.019
>	Sc	45		ug/L		436956	436955.815
[	Ni	60	49.138	ug/L	0.352	44072	0.101
>	Ge	74		ug/L		239779	239779.169
	As	75	49.880	ug/L	0.813	32877	0.137
	Se	77		ug/L		5353	0.007
	Se	82	50.395	ug/L	4.218	3262	0.014
[	Kr	83		ug/L		96	0.000
>	Lu	175		ug/L		337283	337282.635
	Tl	205	50.366	ug/L	3.052	714920	2.112
[	U	238	50.940	ug/L	1.128	1825248	5.410

### 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
U	238Linear Thru Zero	1.0000

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9	108.804					
>	Sc	45		98.1				
[	Ni	60	98.275					
>	Ge	74		94.4				
	As	75	99.760					
	Se	77						
	Se	82	100.791					
[	Kr	83						
>	Lu	175		96.6				
	Tl	205	100.732					
[	U	238	101.880					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: QC Std 8

Report Date/Time: Tuesday, April 13, 2010 22:00:52

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 22:04:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.225

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	-0.031	ug/L	50.968	13	-0.000
>	Sc	45		ug/L		429133	429133.032
[	Ni	60	-0.025	ug/L	42.376	104	-0.000
>	Ge	74		ug/L		234512	234512.031
	As	75	-0.111	ug/L	238.188	-82	-0.000
	Se	77		ug/L		3018	-0.002
	Se	82	0.012	ug/L	2849.190	-2	0.000
[	Kr	83		ug/L		76	-0.000
>	Lu	175		ug/L		333848	333848.305
	Tl	205	0.169	ug/L	10.913	5114	0.007
[	U	238	0.005	ug/L	24.888	798	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
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	1.0000
U	238	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		96.3				
[	Ni	60						
>	Ge	74		92.3				
	As	75						
	Se	77						
	Se	82						
[	Kr	83						
>	Lu	175		95.7				
	Tl	205						
[	U	238						

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: QC Std 9

Report Date/Time: Tuesday, April 13, 2010 22:04:59

Page 1

QC Action Line: No QC out of limits detected



## ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 22:33:00

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.232

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	52.990	ug/L	4.977	8187	0.018
>	Sc	45		ug/L		444298	444297.656
[	Ni	60	48.274	ug/L	0.454	44030	0.099
>	Ge	74		ug/L		240072	240072.098
	As	75	51.144	ug/L	0.458	33751	0.141
	Se	77		ug/L		5197	0.007
	Se	82	50.406	ug/L	2.237	3266	0.014
[	Kr	83		ug/L		95	0.000
>	Lu	175		ug/L		335587	335586.926
	Tl	205	49.885	ug/L	2.060	704626	2.092
[	U	238	50.990	ug/L	3.121	1817114	5.416

### 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
U	238Linear Thru Zero	1.0000

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9	105.980					
>	Sc	45		99.7				
[	Ni	60	96.548					
>	Ge	74		94.5				
	As	75	102.288					
	Se	77						
	Se	82	100.812					
[	Kr	83						
>	Lu	175		96.2				
	Tl	205	99.771					
[	U	238	101.979					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: QC Std 8

Report Date/Time: Tuesday, April 13, 2010 22:33:42

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 22:37:06

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.233

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.008	ug/L	186.939	20	0.000
[>	Sc	45		ug/L		441060	441060.407
[	Ni	60	-0.038	ug/L	23.812	95	-0.000
[>	Ge	74		ug/L		241609	241608.963
	As	75	-0.125	ug/L	143.084	-94	-0.000
	Se	77		ug/L		2927	-0.003
	Se	82	-0.066	ug/L	474.093	-8	-0.000
[	Kr	83		ug/L		84	0.000
[>	Lu	175		ug/L		333904	333904.174
	Tl	205	0.137	ug/L	5.943	4663	0.006
[	U	238	0.006	ug/L	15.217	832	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	1.0000
U	238	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		99.0				
[	Ni	60						
[>	Ge	74		95.1				
	As	75						
	Se	77						
	Se	82						
[	Kr	83						
[>	Lu	175		95.7				
	Tl	205						
[	U	238						

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: QC Std 9

Report Date/Time: Tuesday, April 13, 2010 22:37:49

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 23:01:46

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.239

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	54.091	ug/L	4.108	8245	0.019
>	Sc	45		ug/L		438310	438310.405
[	Ni	60	48.393	ug/L	2.466	43529	0.099
>	Ge	74		ug/L		235675	235674.556
	As	75	50.830	ug/L	1.106	32930	0.140
	Se	77		ug/L		5179	0.007
	Se	82	50.535	ug/L	0.979	3216	0.014
[	Kr	83		ug/L		101	0.000
>	Lu	175		ug/L		333946	333945.955
	Tl	205	49.646	ug/L	2.126	697847	2.082
[	U	238	50.917	ug/L	1.704	1806242	5.408

### 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
U	238Linear Thru Zero	1.0000

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9	108.182				
>	Sc	45		98.4			
[	Ni	60	96.786				
>	Ge	74		92.8			
	As	75	101.660				
	Se	77					
	Se	82	101.070				
[	Kr	83					
>	Lu	175		95.7			
	Tl	205	99.293				
[	U	238	101.833				

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: QC Std 8

Report Date/Time: Tuesday, April 13, 2010 23:02:28

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 23:05:52

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.240

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.002	ug/L	482.265	18	0.000
>	Sc	45		ug/L		429776	429776.403
[	Ni	60	-0.022	ug/L	61.873	106	-0.000
>	Ge	74		ug/L		232179	232178.814
	As	75	0.214	ug/L	233.343	129	0.001
	Se	77		ug/L		2774	-0.003
	Se	82	0.029	ug/L	525.249	-1	0.000
[	Kr	83		ug/L		80	0.000
>	Lu	175		ug/L		332645	332644.914
	Tl	205	0.140	ug/L	9.630	4685	0.006
[	U	238	0.006	ug/L	17.652	839	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	1.0000
U	238	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		96.5				
[	Ni	60						
>	Ge	74		91.4				
	As	75						
	Se	77						
	Se	82						
[	Kr	83						
>	Lu	175		95.3				
	Tl	205						
[	U	238						

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: QC Std 9

Report Date/Time: Tuesday, April 13, 2010 23:06:35

Page 1

QC Action Line: No QC out of limits detected



## ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 23:47:02

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.250

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	54.007	ug/L	7.052	8004	0.019
>	Sc	45		ug/L		426530	426529.786
[	Ni	60	48.395	ug/L	1.209	42374	0.099
>	Ge	74		ug/L		232777	232777.353
	As	75	50.663	ug/L	3.592	32404	0.139
	Se	77		ug/L		5089	0.007
	Se	82	49.468	ug/L	8.041	3106	0.013
[	Kr	83		ug/L		95	0.000
>	Lu	175		ug/L		324648	324647.795
	Tl	205	50.441	ug/L	0.791	689442	2.115
[	U	238	51.232	ug/L	0.749	1767243	5.442

### 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	1.0000
U	238	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	108.015					
>	Sc	45		95.7				
[	Ni	60	96.791					
>	Ge	74		91.6				
	As	75	101.325					
	Se	77						
	Se	82	98.937					
[	Kr	83						
>	Lu	175		93.0				
	Tl	205	100.883					
[	U	238	102.465					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: QC Std 8

Report Date/Time: Tuesday, April 13, 2010 23:47:44

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 23:51:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.251

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[ Be	9	0.022	ug/L	99.305	21	0.000
[> Sc	45		ug/L		423358	423357.697
[ Ni	60	-0.030	ug/L	21.035	97	-0.000
[> Ge	74		ug/L		228560	228560.231
[ As	75	0.176	ug/L	297.057	101	0.000
[ Se	77		ug/L		2677	-0.003
[ Se	82	-0.026	ug/L	560.347	-5	-0.000
[ Kr	83		ug/L		80	0.000
[> Lu	175		ug/L		319461	319460.996
[ Tl	205	0.187	ug/L	5.932	5134	0.008
[ U	238	0.007	ug/L	14.292	853	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	1.0000
U	238Linear 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					
[> Ge	74		90.0			
[ As	75					
[ Se	77					
[ Se	82					
[ Kr	83					
[> Lu	175		91.5			
[ Tl	205					
[ U	238					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: QC Std 9

Report Date/Time: Tuesday, April 13, 2010 23:51:52

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Wednesday, April 14, 2010 00:32:25

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.261

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	53.841	ug/L	8.860	8155	0.019
Sc	45		ug/L		436015	436014.780
Ni	60	48.474	ug/L	0.816	43384	0.099
Ge	74		ug/L		237078	237077.728
As	75	50.804	ug/L	0.277	33110	0.140
Se	77		ug/L		4901	0.006
Se	82	49.957	ug/L	0.188	3198	0.014
Kr	83		ug/L		111	0.000
Lu	175		ug/L		332442	332441.746
Tl	205	49.578	ug/L	1.754	693897	2.079
U	238	50.437	ug/L	0.289	1781554	5.357

### 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
U	238Linear Thru Zero	1.0000

### QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Be	9	107.681				
Sc	45		97.9			
Ni	60	96.949				
Ge	74		93.3			
As	75	101.608				
Se	77					
Se	82	99.914				
Kr	83					
Lu	175		95.3			
Tl	205	99.157				
U	238	100.874				

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: QC Std 8

Report Date/Time: Wednesday, April 14, 2010 00:33:06

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Wednesday, April 14, 2010 00:36:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.262

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	-0.018	ug/L	110.791	15	-0.000
[>	Sc	45		ug/L		422746	422745.766
[	Ni	60	-0.014	ug/L	70.787	111	-0.000
[>	Ge	74		ug/L		232979	232979.441
[	As	75	-0.018	ug/L	2316.777	-23	-0.000
	Se	77		ug/L		2595	-0.004
	Se	82	0.033	ug/L	474.578	-1	0.000
[	Kr	83		ug/L		85	0.000
[>	Lu	175		ug/L		326485	326485.123
	Tl	205	0.159	ug/L	9.651	4859	0.007
[	U	238	0.007	ug/L	5.937	853	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	1.0000
U	238	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		94.9				
[	Ni	60						
[>	Ge	74		91.7				
	As	75						
	Se	77						
	Se	82						
[	Kr	83						
[>	Lu	175		93.5				
	Tl	205						
[	U	238						

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: QC Std 9

Report Date/Time: Wednesday, April 14, 2010 00:37:14

Page 1

QC Action Line: No QC out of limits detected



## ICPMS#5 - Summary Report

Sample ID: 1202065014

Sample Date/Time: Wednesday, April 14, 2010 00:40:39

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 962569|2|skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\1202065014.263

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.000	ug/L	8788.328	19	0.000
>	Sc	45		ug/L		461521	461520.977
[	Ni	60	0.023	ug/L	115.463	156	0.000
>	Ge	74		ug/L		244787	244787.381
	As	75	-0.021	ug/L	948.366	-27	-0.000
	Se	77		ug/L		1743	-0.008
	Se	82	-0.025	ug/L	493.954	-5	-0.000
[	Kr	83		ug/L		83	0.000
>	Lu	175		ug/L		350803	350803.451
	Tl	205	-0.020	ug/L	31.010	2590	-0.001
[	U	238	-0.015	ug/L	2.367	110	-0.002

### 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	1.0000
U	238	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	103.6			
[	Ni	60				
>	Ge	74	96.4			
	As	75				
	Se	77				
	Se	82				
[	Kr	83				
>	Lu	175	100.5			
	Tl	205				
[	U	238				

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: 1202065014

Report Date/Time: Wednesday, April 14, 2010 00:41:22

Page 1

QC Action Line: No QC out of limits detected

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Sample ID: 1202065014

Report Date/Time: Wednesday, April 14, 2010 00:41:22

Page 2

## ICPMS#5 - Summary Report

Sample ID: 1202065015

Sample Date/Time: Wednesday, April 14, 2010 00:44:47

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 962569|40|skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\1202065015.264

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	23.167	ug/L	4.819	3512	0.008
[>	Sc	45		ug/L		434780	434780.361
[	Ni	60	38.111	ug/L	2.215	34032	0.078
[>	Ge	74		ug/L		237066	237065.867
	As	75	29.446	ug/L	2.665	19177	0.081
	Se	77		ug/L		6062	0.011
	Se	82	82.613	ug/L	2.353	5288	0.022
[	Kr	83		ug/L		93	0.000
[>	Lu	175		ug/L		333512	333511.561
	Tl	205	36.245	ug/L	3.724	509504	1.520
[	U	238	0.548	ug/L	1.206	20043	0.058

### 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	1.0000
U	238	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					
[>	Ge	74		93.3			
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
[>	Lu	175		95.6			
	Tl	205					
[	U	238					

### QC Out Of Limits

Measurement Type    Analyte    Mass    Out of Limits    Message

### QC Action

Sample ID: 1202065015

Report Date/Time: Wednesday, April 14, 2010 00:45:30

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 248520001

Sample Date/Time: Wednesday, April 14, 2010 01:05:21

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 962569|2|skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\248520001.269

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.588	ug/L	3.903	463	0.001
> Sc	45		ug/L		492659	492659.085
Ni	60	19.466	ug/L	3.601	19765	0.040
> Ge	74		ug/L		236178	236177.517
As	75	4.605	ug/L	7.018	2978	0.013
Se	77		ug/L		1623	-0.008
Se	82	-0.023	ug/L	783.634	-5	-0.000
Kr	83		ug/L		146	0.000
> Lu	175		ug/L		355850	355850.476
Tl	205	0.252	ug/L	5.693	6678	0.011
U	238	2.606	ug/L	2.637	99110	0.277

### 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
U	238Linear 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		110.6				
Ni	60						
> Ge	74		93.0				
As	75						
Se	77						
Se	82						
Kr	83						
> Lu	175		102.0				
Tl	205						
U	238						

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: 248520001

Report Date/Time: Wednesday, April 14, 2010 01:06:01

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 248520002

Sample Date/Time: Wednesday, April 14, 2010 01:09:25

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 962569|2|skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\248520002.270

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	3.473	ug/L	3.055	626	0.001
>	Sc	45		ug/L		502321	502320.614
[	Ni	60	17.516	ug/L	4.270	18147	0.036
[>	Ge	74		ug/L		238505	238504.737
	As	75	17.148	ug/L	2.226	11234	0.047
	Se	77		ug/L		1860	-0.007
	Se	82	1.000	ug/L	1.251	61	0.000
[	Kr	83		ug/L		160	0.000
[>	Lu	175		ug/L		356702	356701.619
	Tl	205	0.660	ug/L	2.501	12798	0.028
[	U	238	24.968	ug/L	0.980	946556	2.652

### 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	1.0000
U	238	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	112.7			
[	Ni	60				
[>	Ge	74	93.9			
	As	75				
	Se	77				
	Se	82				
[	Kr	83				
[>	Lu	175	102.2			
	Tl	205				
[	U	238				

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: 248520002

Report Date/Time: Wednesday, April 14, 2010 01:10:06

Page 1

QC Action Line: No QC out of limits detected

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Sample ID: 248520002

Report Date/Time: Wednesday, April 14, 2010 01:10:06

Page 2



## ICPMS#5 - Summary Report

Sample ID: 248520003

Sample Date/Time: Wednesday, April 14, 2010 01:13:29

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 962569[2]skj

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100413\248520003.271

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[ Be	9	2.684	ug/L	6.834	482	0.001
> Sc	45		ug/L		495558	495557.995
[ Ni	60	15.964	ug/L	0.947	16337	0.033
[> Ge	74		ug/L		238906	238905.828
As	75	4.783	ug/L	3.278	3131	0.013
Se	77		ug/L		1691	-0.008
Se	82	0.071	ug/L	128.498	1	0.000
[ Kr	83		ug/L		149	0.000
[> Lu	175		ug/L		352302	352301.889
Tl	205	0.175	ug/L	2.929	5488	0.007
[ U	238	6.418	ug/L	0.580	240805	0.682

### 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	1.0000
U	238	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		111.2			
[ Ni	60					
[> Ge	74		94.0			
As	75					
Se	77					
Se	82					
[ Kr	83					
[> Lu	175		100.9			
Tl	205					
[ U	238					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: 248520003

Report Date/Time: Wednesday, April 14, 2010 01:14:10

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Wednesday, April 14, 2010 01:17:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.272

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	54.215	ug/L	7.429	8264	0.019
[>	Sc	45		ug/L		438498	438498.297
[	Ni	60	47.681	ug/L	2.153	42917	0.098
[>	Ge	74		ug/L		237522	237522.427
	As	75	50.717	ug/L	1.602	33109	0.139
	Se	77		ug/L		5030	0.006
	Se	82	50.410	ug/L	2.669	3232	0.014
[	Kr	83		ug/L		100	0.000
[>	Lu	175		ug/L		334164	334164.154
	Tl	205	49.159	ug/L	3.228	691468	2.062
[	U	238	50.049	ug/L	1.231	1776855	5.316

### 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	1.0000
U	238	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	108.430					
[>	Sc	45		98.4				
[	Ni	60	95.363					
[>	Ge	74		93.5				
	As	75	101.434					
	Se	77						
	Se	82	100.821					
[	Kr	83						
[>	Lu	175		95.7				
	Tl	205	98.317					
[	U	238	100.098					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: QC Std 8

Report Date/Time: Wednesday, April 14, 2010 01:18:16

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Wednesday, April 14, 2010 01:21:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.273

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.001	ug/L	1967.065	18	0.000
> Sc	45		ug/L		431990	431989.679
Ni	60	-0.026	ug/L	41.595	103	-0.000
> Ge	74		ug/L		235100	235099.995
As	75	0.078	ug/L	671.987	41	0.000
Se	77		ug/L		2614	-0.004
Se	82	0.286	ug/L	31.343	15	0.000
Kr	83		ug/L		79	-0.000
> Lu	175		ug/L		328514	328514.439
Tl	205	0.121	ug/L	9.384	4364	0.005
U	238	0.006	ug/L	13.805	846	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	1.0000
U	238Linear 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		96.9			
Ni	60					
> Ge	74		92.5			
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175		94.1			
Tl	205					
U	238					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: QC Std 9

Report Date/Time: Wednesday, April 14, 2010 01:22:24

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 248520004

Sample Date/Time: Wednesday, April 14, 2010 01:25:47

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 962569[2]skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\248520004.274

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	3.082	ug/L	1.733	546	0.001
[>	Sc	45		ug/L		491923	491922.782
[	Ni	60	17.912	ug/L	1.954	18176	0.037
[>	Ge	74		ug/L		236613	236613.174
	As	75	19.184	ug/L	2.869	12469	0.053
	Se	77		ug/L		1906	-0.007
	Se	82	0.800	ug/L	26.076	48	0.000
[	Kr	83		ug/L		154	0.000
[>	Lu	175		ug/L		353502	353501.769
	Tl	205	0.759	ug/L	1.346	14156	0.032
[	U	238	27.755	ug/L	0.448	1042693	2.948

### 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	1.0000
U	238	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		110.4			
[	Ni	60					
[>	Ge	74		93.1			
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
[>	Lu	175		101.3			
	Tl	205					
[	U	238					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: 248520004

Report Date/Time: Wednesday, April 14, 2010 01:26:29

Page 1

QC Action Line: No QC out of limits detected



## ICPMS#5 - Summary Report

Sample ID: 248520005

Sample Date/Time: Wednesday, April 14, 2010 01:29:53

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 962569[2]skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\248520005.275

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.730	ug/L	2.643	506	0.001
> Sc	45		ug/L		511777	511776.778
Ni	60	17.976	ug/L	2.199	18975	0.037
> Ge	74		ug/L		247229	247229.055
As	75	5.543	ug/L	6.947	3756	0.015
Se	77		ug/L		1688	-0.008
Se	82	-0.442	ug/L	70.566	-33	-0.000
Kr	83		ug/L		169	0.000
> Lu	175		ug/L		364202	364202.491
Tl	205	0.228	ug/L	7.962	6477	0.010
U	238	2.097	ug/L	2.164	81815	0.223

### 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
U	238Linear 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		114.9			
Ni	60					
> Ge	74		97.3			
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175		104.4			
Tl	205					
U	238					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: 248520005

Report Date/Time: Wednesday, April 14, 2010 01:30:35

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 248520006

Sample Date/Time: Wednesday, April 14, 2010 01:33:57

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 962569|2|skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\248520006.276

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[ Be	9	3.559	ug/L	8.176	651	0.001
[> Sc	45		ug/L		509766	509765.877
[ Ni	60	23.048	ug/L	2.074	24194	0.047
[> Ge	74		ug/L		238111	238111.090
As	75	7.506	ug/L	4.539	4901	0.021
Se	77		ug/L		1745	-0.008
Se	82	0.075	ug/L	377.612	2	0.000
[ Kr	83		ug/L		171	0.000
[> Lu	175		ug/L		360950	360949.726
Tl	205	0.451	ug/L	0.952	9801	0.019
[ U	238	6.122	ug/L	0.983	235383	0.650

### 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
U	238Linear 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		114.4			
[ Ni	60					
[> Ge	74		93.7			
As	75					
Se	77					
Se	82					
[ Kr	83					
[> Lu	175		103.4			
Tl	205					
[ U	238					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: 248520006

Report Date/Time: Wednesday, April 14, 2010 01:34:38

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 248520007

Sample Date/Time: Wednesday, April 14, 2010 01:38:01

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 962569[2]skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\248520007.277

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	2.451	ug/L	5.722	448	0.001
[>	Sc	45		ug/L		501856	501856.442
[	Ni	60	17.637	ug/L	4.745	18261	0.036
[>	Ge	74		ug/L		240809	240808.890
	As	75	5.998	ug/L	0.772	3961	0.016
	Se	77		ug/L		1634	-0.008
	Se	82	0.095	ug/L	527.749	3	0.000
[	Kr	83		ug/L		142	0.000
[>	Lu	175		ug/L		357695	357694.725
	Tl	205	0.399	ug/L	0.461	8923	0.017
[	U	238	10.659	ug/L	0.865	405606	1.132

### 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	1.0000
U	238	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		112.6			
[	Ni	60					
[>	Ge	74		94.8			
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
[>	Lu	175		102.5			
	Tl	205					
[	U	238					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: 248520007

Report Date/Time: Wednesday, April 14, 2010 01:38:41

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 248520008

Sample Date/Time: Wednesday, April 14, 2010 01:42:04

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 962569[2]skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\248520008.278

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	2.465	ug/L	3.860	441	0.001
[>	Sc	45		ug/L		492197	492197.172
[	Ni	60	21.354	ug/L	2.611	21652	0.044
[>	Ge	74		ug/L		242829	242829.175
	As	75	6.086	ug/L	6.696	4049	0.017
	Se	77		ug/L		1668	-0.008
	Se	82	0.231	ug/L	142.507	12	0.000
[	Kr	83		ug/L		139	0.000
[>	Lu	175		ug/L		349386	349385.555
	Tl	205	0.361	ug/L	8.980	8151	0.015
[	U	238	7.980	ug/L	2.880	296722	0.848

### 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	1.0000
U	238	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		110.5				
[	Ni	60						
[>	Ge	74		95.6				
	As	75						
	Se	77						
	Se	82						
[	Kr	83						
[>	Lu	175		100.1				
	Tl	205						
[	U	238						

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: 248520008

Report Date/Time: Wednesday, April 14, 2010 01:42:45

Page 1

QC Action Line: No QC out of limits detected



## ICPMS#5 - Summary Report

Sample ID: 248520009

Sample Date/Time: Wednesday, April 14, 2010 01:46:08

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 962569|2|skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\248520009.279

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	2.669	ug/L	9.740	482	0.001
[>	Sc	45		ug/L		498086	498086.251
[	Ni	60	19.923	ug/L	3.510	20449	0.041
[>	Ge	74		ug/L		239674	239673.614
[	As	75	6.606	ug/L	5.883	4341	0.018
[	Se	77		ug/L		1701	-0.008
[	Se	82	0.083	ug/L	301.701	2	0.000
[	Kr	83		ug/L		136	0.000
[>	Lu	175		ug/L		350850	350849.540
[	Tl	205	0.454	ug/L	1.331	9567	0.019
[	U	238	13.968	ug/L	2.535	521088	1.484

### 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	1.0000
U	238	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		111.8			
[	Ni	60					
[>	Ge	74		94.3			
[	As	75					
[	Se	77					
[	Se	82					
[	Kr	83					
[>	Lu	175		100.5			
[	Tl	205					
[	U	238					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: 248520009

Report Date/Time: Wednesday, April 14, 2010 01:46:49

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 248520010

Sample Date/Time: Wednesday, April 14, 2010 01:50:13

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 962569|2|skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\248520010.280

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[ Be	9	2.282	ug/L	11.253	399	0.001
[> Sc	45		ug/L		478632	478632.190
[ Ni	60	18.486	ug/L	2.432	18243	0.038
[> Ge	74		ug/L		233593	233592.508
As	75	5.098	ug/L	6.968	3262	0.014
Se	77		ug/L		1754	-0.007
Se	82	-0.295	ug/L	140.591	-22	-0.000
[ Kr	83		ug/L		146	0.000
[> Lu	175		ug/L		336352	336351.712
Tl	205	0.195	ug/L	2.781	5509	0.008
[ U	238	7.260	ug/L	1.171	259987	0.771

### 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
U	238Linear 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		107.4			
[ Ni	60					
[> Ge	74		91.9			
As	75					
Se	77					
Se	82					
[ Kr	83					
[> Lu	175		96.4			
Tl	205					
[ U	238					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: 248520010

Report Date/Time: Wednesday, April 14, 2010 01:50:54

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Wednesday, April 14, 2010 01:54:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.281

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	53.486	ug/L	6.408	8093	0.019
>	Sc	45		ug/L		435211	435211.215
[	Ni	60	47.858	ug/L	1.166	42758	0.098
>	Ge	74		ug/L		236627	236626.885
	As	75	49.574	ug/L	1.894	32239	0.136
	Se	77		ug/L		4833	0.005
	Se	82	49.604	ug/L	2.666	3168	0.013
[	Kr	83		ug/L		95	0.000
>	Lu	175		ug/L		326662	326662.327
	Tl	205	50.284	ug/L	2.257	691443	2.109
[	U	238	50.864	ug/L	0.619	1765445	5.402

### 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	1.0000
U	238	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	106.972					
>	Sc	45		97.7				
[	Ni	60	95.715					
>	Ge	74		93.1				
	As	75	99.148					
	Se	77						
	Se	82	99.208					
[	Kr	83						
>	Lu	175		93.6				
	Tl	205	100.568					
[	U	238	101.728					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: QC Std 8

Report Date/Time: Wednesday, April 14, 2010 01:55:00

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Wednesday, April 14, 2010 01:58:25

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.282

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[ Be	9	-0.032	ug/L	103.870	13	-0.000
[> Sc	45		ug/L		434623	434623.379
[ Ni	60	-0.017	ug/L	63.440	112	-0.000
[> Ge	74		ug/L		232422	232422.274
[ As	75	0.160	ug/L	268.388	93	0.000
[ Se	77		ug/L		2643	-0.004
[ Se	82	-0.117	ug/L	169.226	-10	-0.000
[ Kr	83		ug/L		84	0.000
[> Lu	175		ug/L		330060	330059.567
[ Tl	205	0.123	ug/L	17.287	4415	0.005
[ U	238	0.007	ug/L	16.582	868	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	1.0000
U	238Linear 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		97.5				
[ Ni	60						
[> Ge	74		91.5				
[ As	75						
[ Se	77						
[ Se	82						
[ Kr	83						
[> Lu	175		94.6				
[ Tl	205						
[ U	238						

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: QC Std 9

Report Date/Time: Wednesday, April 14, 2010 01:59:07

Page 1

QC Action Line: No QC out of limits detected



## ICPMS#5 - Summary Report

Sample ID: 248520011

Sample Date/Time: Wednesday, April 14, 2010 02:02:31

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 962569[2]skj

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100413\248520011.283

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[ Be	9	3.213	ug/L	3.325	587	0.001
> Sc	45		ug/L		507801	507801.187
[ Ni	60	25.126	ug/L	1.892	26259	0.051
> Ge	74		ug/L		235440	235440.154
As	75	6.179	ug/L	8.212	3992	0.017
Se	77		ug/L		1798	-0.007
Se	82	-0.390	ug/L	42.905	-28	-0.000
[ Kr	83		ug/L		176	0.000
> Lu	175		ug/L		351780	351780.116
Tl	205	0.475	ug/L	1.336	9900	0.020
[ U	238	2.636	ug/L	2.001	99160	0.280

### 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
U	238Linear 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		114.0			
[ Ni	60					
> Ge	74		92.7			
As	75					
Se	77					
Se	82					
[ Kr	83					
> Lu	175		100.8			
Tl	205					
[ U	238					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: 248520011

Report Date/Time: Wednesday, April 14, 2010 02:03:13

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 1202065016

Sample Date/Time: Wednesday, April 14, 2010 02:10:44

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 962569|2|skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\1202065016.285

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.209	ug/L	13.121	395	0.001
> Sc	45		ug/L		488433	488432.503
Ni	60	18.167	ug/L	1.397	18305	0.037
> Ge	74		ug/L		239484	239483.902
As	75	4.452	ug/L	4.010	2920	0.012
Se	77		ug/L		1729	-0.008
Se	82	-0.335	ug/L	144.993	-25	-0.000
Kr	83		ug/L		159	0.000
> Lu	175		ug/L		360610	360610.021
Tl	205	0.034	ug/L	22.323	3482	0.001
U	238	2.400	ug/L	2.724	92565	0.255

### 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
U	238Linear 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		109.6				
Ni	60						
> Ge	74		94.3				
As	75						
Se	77						
Se	82						
Kr	83						
> Lu	175		103.3				
Tl	205						
U	238						

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: 1202065016

Report Date/Time: Wednesday, April 14, 2010 02:11:27

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 1202065017

Sample Date/Time: Wednesday, April 14, 2010 02:14:52

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 962569|2|skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\1202065017.286

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	26.554	ug/L	7.185	4549	0.009
>	Sc	45		ug/L		491664	491663.556
[	Ni	60	42.754	ug/L	3.571	43154	0.088
>	Ge	74		ug/L		237963	237963.417
	As	75	42.899	ug/L	2.131	28056	0.118
	Se	77		ug/L		2238	-0.006
	Se	82	8.898	ug/L	5.615	569	0.002
[	Kr	83		ug/L		210	0.001
>	Lu	175		ug/L		379917	379917.361
	Tl	205	41.473	ug/L	2.109	663856	1.739
[	U	238	26.411	ug/L	0.613	1066474	2.805

### 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	1.0000
U	238	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		110.3			
[	Ni	60					
>	Ge	74		93.7			
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
>	Lu	175		108.9			
	Tl	205					
[	U	238					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: 1202065017

Report Date/Time: Wednesday, April 14, 2010 02:15:34

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 1202065024

Sample Date/Time: Wednesday, April 14, 2010 02:18:59

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 962569|2|skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\1202065024.287

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	24.315	ug/L	7.989	4172	0.008
>	Sc	45		ug/L		492403	492403.223
[	Ni	60	44.776	ug/L	3.138	45249	0.092
>	Ge	74		ug/L		239655	239655.298
	As	75	39.521	ug/L	2.330	26026	0.109
	Se	77		ug/L		2186	-0.006
	Se	82	8.051	ug/L	2.707	518	0.002
[	Kr	83		ug/L		167	0.000
>	Lu	175		ug/L		359785	359785.433
	Tl	205	43.486	ug/L	1.181	659037	1.824
[	U	238	26.373	ug/L	3.071	1008182	2.801

### 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	1.0000
U	238	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	110.5			
[	Ni	60				
>	Ge	74	94.3			
	As	75				
	Se	77				
	Se	82				
[	Kr	83				
>	Lu	175	103.1			
	Tl	205				
[	U	238				

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

Sample ID: 1202065024

Report Date/Time: Wednesday, April 14, 2010 02:19:41

Page 1

QC Action Line: No QC out of limits detected



## ICPMS#5 - Summary Report

Sample ID: 1202065018

Sample Date/Time: Wednesday, April 14, 2010 02:23:06

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 962569|10|skj

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100413\1202065018.288

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[ Be	9	0.383	ug/L	8.651	78	0.000
> Sc	45		ug/L		448661	448661.199
[ Ni	60	3.105	ug/L	1.912	2982	0.006
> Ge	74		ug/L		238785	238784.941
As	75	0.893	ug/L	50.078	573	0.002
Se	77		ug/L		1938	-0.007
Se	82	-0.004	ug/L	1799.731	-4	-0.000
[ Kr	83		ug/L		96	0.000
> Lu	175		ug/L		338939	338939.349
Tl	205	0.074	ug/L	16.420	3832	0.003
[ U	238	0.555	ug/L	2.510	20612	0.059

### 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
U	238Linear 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		100.7			
[ Ni	60					
> Ge	74		94.0			
As	75					
Se	77					
Se	82					
[ Kr	83					
> Lu	175		97.1			
Tl	205					
[ U	238					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: 1202065018

Report Date/Time: Wednesday, April 14, 2010 02:23:48

Page 1

QC Action Line: No QC out of limits detected

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Sample ID: 1202065018

Report Date/Time: Wednesday, April 14, 2010 02:23:48

Page 2

## ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, April 14, 2010 02:27:12

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nani soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 6.289

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	52.953	ug/L	4.856	8060	0.018
> Sc	45		ug/L		437800	437800.386
Ni	60	47.916	ug/L	3.275	43061	0.098
> Ge	74		ug/L		236438	236438.382
As	75	51.087	ug/L	3.182	33197	0.140
Se	77		ug/L		4959	0.006
Se	82	51.318	ug/L	2.040	3276	0.014
Kr	83		ug/L		92	0.000
> Lu	175		ug/L		333438	333437.560
Tl	205	49.556	ug/L	2.907	695597	2.078
U	238	50.303	ug/L	0.907	1782124	5.343

### 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
U	238Linear Thru Zero	1.0000

### QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Be	9	105.907					
> Sc	45		98.3				
Ni	60	95.833					
> Ge	74		93.1				
As	75	102.173					
Se	77						
Se	82	102.636					
Kr	83						
> Lu	175		95.5				
Tl	205	99.111					
U	238	100.605					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: QC Std 6

Report Date/Time: Wednesday, April 14, 2010 02:27:54

Page 1

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, April 14, 2010 02:31:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 7.290

### Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[ Be	9	-0.029	ug/L	63.384	14	-0.000
[ > Sc	45		ug/L		442975	442974.813
[ Ni	60	-0.017	ug/L	12.135	114	-0.000
[ > Ge	74		ug/L		241406	241406.138
As	75	0.052	ug/L	367.444	24	0.000
Se	77		ug/L		2606	-0.004
Se	82	-0.123	ug/L	165.926	-11	-0.000
[ Kr	83		ug/L		86	0.000
[ > Lu	175		ug/L		339182	339182.102
Tl	205	0.174	ug/L	11.511	5264	0.007
[ U	238	0.007	ug/L	6.349	886	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	1.0000
U	238Linear 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		99.4			
[ Ni	60					
[ > Ge	74		95.0			
As	75					
Se	77					
Se	82					
[ Kr	83					
[ > Lu	175		97.2			
Tl	205					
[ U	238					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

Sample ID: QC Std 7

Report Date/Time: Wednesday, April 14, 2010 02:32:02

Page 1

QC Action Line: No QC out of limits detected

Wavelength: 253.7 nm

Sample Info Name: 031710S1.SIF

Results Data Set Name: 031710S1

=====

Element: Hg Seq. No.: 102 AS Loc.: 1 Date: 03/17/2010

Sample ID: Calib Blank

-----

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0028	0.0028	12:25:00	No
2			0.0027	0.0027	12:25:35	No
Mean:			0.0028			
SD :			0.0000			
%RSD:			1.2168			

Auto-zero performed.

=====

Element: Hg Seq. No.: 103 AS Loc.: 2 Date: 03/17/2010

Sample ID: S0.2

-----

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0022	0.0050	12:26:58	No
2			0.0021	0.0049	12:27:33	No
Mean:			0.0022			
SD :			0.0000			
%RSD:			2.1756			

[Hg] Standard number 1 applied. [0.200]

Correlation Coefficient: 1.00000 Slope: 0.01079

Intercept : 0.00000

=====

Element: Hg Seq. No.: 104 AS Loc.: 3 Date: 03/17/2010

Sample ID: S0.5

-----

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0051	0.0079	12:28:56	No
2			0.0050	0.0078	12:29:31	No
Mean:			0.0051			
SD :			0.0001			
%RSD:			1.0846			

[Hg] Standard number 2 applied. [0.500]

Correlation Coefficient: 0.99960 Slope: 0.01013

Intercept : 0.00005

=====

Element: Hg Seq. No.: 105 AS Loc.: 4 Date: 03/17/2010

Sample ID: S2.0

-----

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0196	0.0224	12:30:57	No
2			0.0202	0.0230	12:31:32	No
Mean:			0.0199			
SD :			0.0004			
%RSD:			2.1913			

[Hg] Standard number 3 applied. [2.000]

Correlation Coefficient: 0.99997 Slope: 0.00991

Intercept : 0.00010

=====

Element: Hg Seq. No.: 106 AS Loc.: 5 Date: 03/17/2010

Sample ID: S5.0

-----

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
--------	--------------------	-----------------	-------------------	----------------	------	----------------

1 0.0482 0.0510 12:32:57 No  
 2 0.0483 0.0510 12:33:32 No  
 Mean: 0.0483  
 SD : 0.0000  
 %RSD:  
 [Hg] Standard number 4 applied. [5.000]  
 Correlation Coefficient: 0.99992 Slope: 0.00963  
 Intercept : 0.00024

Element: Hg Seq. No.: 107 AS Loc.: 6 Date: 03/17/2010  
 Sample ID: S10

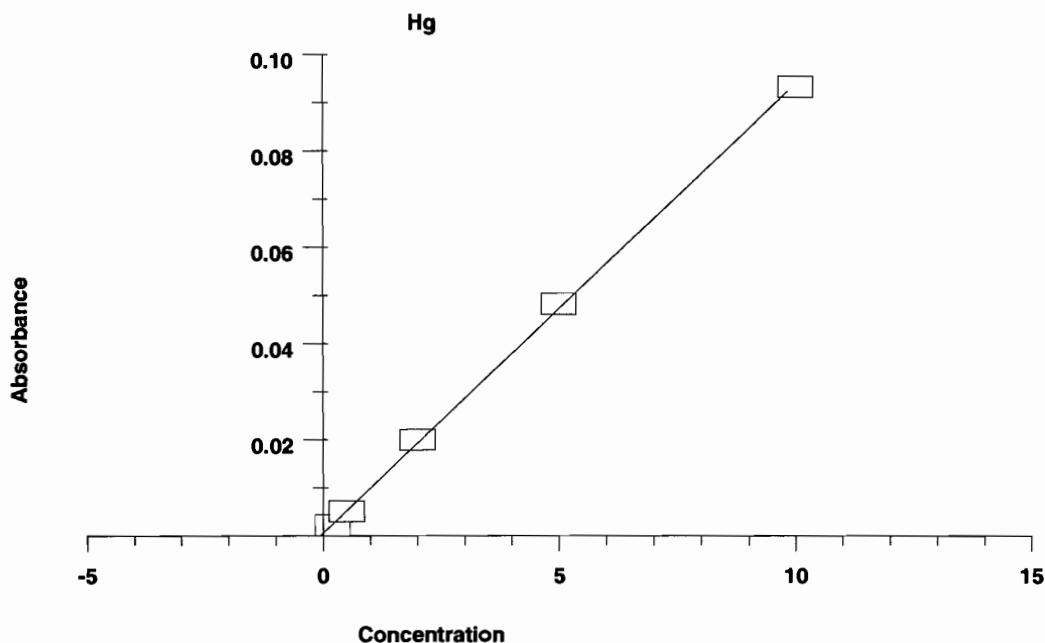
Repl #	SampleConc $\mu\text{g/L}$	StdConc $\mu\text{g/L}$	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0936	0.0964	12:34:58	No
2			0.0928	0.0956	12:35:33	No
Mean:			0.0932			
SD :			0.0006			
%RSD:			0.6158			

[Hg] Standard number 5 applied. [10.00]  
 Correlation Coefficient: 0.99982 Slope: 0.00933  
 Intercept : 0.00059

## Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration ( $\mu\text{g/L}$ )	Calculated Concentration ( $\mu\text{g/L}$ )	Standard Deviation	%RSD
Calib Blank	0.0028	---	----	----	----
S0.2	0.0022	0.200	0.168	0.0000	2.2
S0.5	0.0051	0.500	0.482	0.0001	1.1
S2.0	0.0199	2.000	2.071	0.0004	2.2
S5.0	0.0483	5.000	5.110	0.0000	---
S10	0.0932	10.000	9.932	0.0006	0.6

Correlation Coefficient: 0.99982 Slope: 0.00933 Intercept: 0.0006





=====  
 Element: Hg Seq. No.: 108 AS Loc.: 9 Date: 03/17/2010  
 Sample ID: ICV

-----  

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.289	5.289	0.0499	0.0527	12:37:02	No
2	5.265	5.265	0.0497	0.0525	12:37:37	No
Mean:	5.277	5.277	0.0498			
SD :	0.0170	0.0170	0.0002			
%RSD:	0.3	0.3	0.3181			

 QC value within specified limits.

=====  
 Element: Hg Seq. No.: 109 AS Loc.: 10 Date: 03/17/2010  
 Sample ID: ICB

-----  

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.048	0.048	0.0010	0.0038	12:38:59	No
2	0.038	0.038	0.0009	0.0037	12:39:34	No
Mean:	0.043	0.043	0.0010			
SD :	0.0068	0.0068	0.0001			
%RSD:	15.7	15.7	6.3739			

 QC value within specified limits.

=====  
 Element: Hg Seq. No.: 110 AS Loc.: 11 Date: 03/17/2010  
 Sample ID: CRDL

-----  

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.181	0.181	0.0023	0.0050	12:40:56	No
2	0.161	0.161	0.0021	0.0048	12:41:30	No
Mean:	0.171	0.171	0.0022			
SD :	0.0140	0.0140	0.0001			
%RSD:	8.2	8.2	5.9873			

 QC value within specified limits.

=====  
 Element: Hg Seq. No.: 111 AS Loc.: 7 Date: 03/17/2010  
 Sample ID: CCV

-----  

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.552	5.552	0.0524	0.0551	12:42:56	No
2	5.568	5.568	0.0525	0.0553	12:43:30	No
Mean:	5.560	5.560	0.0524			
SD :	0.0114	0.0114	0.0001			
%RSD:	0.2	0.2	0.2031			

 QC value within specified limits.

=====  
 Element: Hg Seq. No.: 112 AS Loc.: 8 Date: 03/17/2010  
 Sample ID: CCB

-----  

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.153	0.153	0.0020	0.0048	12:44:58	No
2	0.156	0.156	0.0020	0.0048	12:45:33	No
Mean:	0.154	0.154	0.0020			
SD :	0.0025	0.0025	0.0000			
%RSD:	1.6	1.6	1.1619			

 QC value within specified limits.

=====  
 Element: Hg Seq. No.: 113 AS Loc.: 75 Date: 03/17/2010

SD : 0.0085 0.0085 0.0001  
 %RSD: 11.0 11.0 62.9092

=====  
 Element: Hg Seq. No.: 119 AS Loc.: 81 Date: 03/17/2010  
 Sample ID: 248297002|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.139	0.139	0.0019	0.0046	12:58:41	No
2	0.139	0.139	0.0019	0.0046	12:59:16	No
Mean:	0.139	0.139	0.0019			
SD :	0.0006	0.0006	0.0000			
%RSD:	0.4	0.4	0.2958			

=====  
 Element: Hg Seq. No.: 120 AS Loc.: 82 Date: 03/17/2010  
 Sample ID: 248297003|i||965681|

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.024	0.024	0.0008	0.0036	13:00:37	No
2	0.026	0.026	0.0008	0.0036	13:01:11	No
Mean:	0.025	0.025	0.0008			
SD :	0.0013	0.0013	0.0000			
%RSD:	5.2	5.2	1.4955			

=====  
 Element: Hg Seq. No.: 121 AS Loc.: 83 Date: 03/17/2010  
 Sample ID: 1202072152|i||965684|MB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.026	0.026	0.0008	0.0036	13:02:33	No
2	0.011	0.011	0.0007	0.0035	13:03:08	No
Mean:	0.018	0.018	0.0008			
SD :	0.0104	0.0104	0.0001			
%RSD:	56.3	56.3	12.7177			

=====  
 Element: Hg Seq. No.: 122 AS Loc.: 84 Date: 03/17/2010  
 Sample ID: 1202072153|i||LCS

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	2.205	2.205	0.0212	0.0239	13:04:30	No
2	2.380	2.380	0.0228	0.0256	13:05:06	No
Mean:	2.293	2.293	0.0220			
SD :	0.1238	0.1238	0.0012			
%RSD:	5.4	5.4	5.2560			

=====  
 Element: Hg Seq. No.: 123 AS Loc.: 7 Date: 03/17/2010  
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.653	5.653	0.0533	0.0561	13:06:31	No
2	5.500	5.500	0.0519	0.0546	13:07:06	No
Mean:	5.576	5.576	0.0526			
SD :	0.1087	0.1087	0.0010			
%RSD:	1.9	1.9	1.9273			

QC value within specified limits.

=====  
 Element: Hg Seq. No.: 124 AS Loc.: 8 Date: 03/17/2010  
 Sample ID: CCB

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time  Peak
#      ug/L      ug/L      Signal    Height    Stored
1      0.092      0.092      0.0015    0.0042    13:08:33  No
2      0.103      0.103      0.0016    0.0043    13:09:08  No
Mean:   0.098      0.098      0.0015
SD :    0.0075      0.0075      0.0001
%RSD:   7.6        7.6        4.6396
QC value within specified limits.

```

```

=====
Element: Hg      Seq. No.: 125      AS Loc.: 85      Date: 03/17/2010
Sample ID: 249087001|i|

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time  Peak
#      ug/L      ug/L      Signal    Height    Stored
1      -0.061      -0.061      0.0000    0.0028    13:10:33  No
2      -0.100      -0.100      -0.0003    0.0024    13:11:08  No
Mean:   -0.081      -0.081      -0.0002
SD :    0.0277      0.0277      0.0003
%RSD:   34.3        34.3      159.1516

```

```

=====
Element: Hg      Seq. No.: 126      AS Loc.: 86      Date: 03/17/2010
Sample ID: 1202072154|i||MS

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time  Peak
#      ug/L      ug/L      Signal    Height    Stored
1      -0.129      -0.129      -0.0006    0.0021    13:12:31  No
2      -0.140      -0.140      -0.0007    0.0020    13:13:06  No
Mean:   -0.134      -0.134      -0.0007
SD :    0.0078      0.0078      0.0001
%RSD:   5.8         5.8       10.9408

```

```

=====
Element: Hg      Seq. No.: 127      AS Loc.: 87      Date: 03/17/2010
Sample ID: 1202072155|i||MSD

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time  Peak
#      ug/L      ug/L      Signal    Height    Stored
1      -0.116      -0.116      -0.0005    0.0023    13:14:30  No
2      -0.122      -0.122      -0.0005    0.0022    13:15:05  No
Mean:   -0.119      -0.119      -0.0005
SD :    0.0041      0.0041      0.0000
%RSD:   3.4         3.4       7.3583

```

```

=====
Element: Hg      Seq. No.: 128      AS Loc.: 88      Date: 03/17/2010
Sample ID: 1202072165|i|5||SDILT

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time  Peak
#      ug/L      ug/L      Signal    Height    Stored
1      -0.107      -0.107      -0.0004    0.0024    13:16:29  No
2      -0.158      -0.158      -0.0009    0.0019    13:17:05  No
Mean:   -0.132      -0.132      -0.0006
SD :    0.0367      0.0367      0.0003
%RSD:   27.7        27.7      53.0375

```

```

=====
Element: Hg      Seq. No.: 129      AS Loc.: 89      Date: 03/17/2010
Sample ID: 249087002|i|

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time  Peak
#      ug/L      ug/L      Signal    Height    Stored
1      -0.149      -0.149      -0.0008    0.0020    13:18:28  No
2      -0.151      -0.151      -0.0008    0.0019    13:19:04  No
Mean:   -0.150      -0.150      -0.0008

```

SD : 0.0016 0.0016 0.0000  
 %RSD: 1.1 1.1 1.8899

=====  
 Element: Hg Seq. No.: 130 AS Loc.: 90 Date: 03/17/2010  
 Sample ID: 1202072179|i||965692|MB

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.026	0.026	0.0008	0.0036	13:20:28	No
2	0.027	0.027	0.0008	0.0036	13:21:03	No
Mean:	0.027	0.027	0.0008			
SD :	0.0004	0.0004	0.0000			
%RSD:	1.5	1.5	0.4302			

=====  
 Element: Hg Seq. No.: 131 AS Loc.: 91 Date: 03/17/2010  
 Sample ID: 1202072180|i||LCS

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	2.383	2.383	0.0228	0.0256	13:22:28	No
2	2.412	2.412	0.0231	0.0258	13:23:03	No
Mean:	2.397	2.397	0.0229			
SD :	0.0204	0.0204	0.0002			
%RSD:	0.9	0.9	0.8295			

=====  
 Element: Hg Seq. No.: 132 AS Loc.: 92 Date: 03/17/2010  
 Sample ID: 249293001|i||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	4.899	4.899	0.0463	0.0490	13:24:25	No
2	4.811	4.811	0.0455	0.0482	13:25:00	No
Mean:	4.855	4.855	0.0459			
SD :	0.0626	0.0626	0.0006			
%RSD:	1.3	1.3	1.2721			

=====  
 Element: Hg Seq. No.: 133 AS Loc.: 93 Date: 03/17/2010  
 Sample ID: 1202072181|i||MS

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	5.687	5.687	0.0536	0.0564	13:26:19	No
2	5.667	5.667	0.0534	0.0562	13:26:53	No
Mean:	5.677	5.677	0.0535			
SD :	0.0140	0.0140	0.0001			
%RSD:	0.2	0.2	0.2436			

=====  
 Element: Hg Seq. No.: 134 AS Loc.: 94 Date: 03/17/2010  
 Sample ID: 1202072182|i||MSD

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	6.010	6.010	0.0566	0.0594	13:28:14	No
2	6.025	6.025	0.0568	0.0595	13:28:49	No
Mean:	6.017	6.017	0.0567			
SD :	0.0109	0.0109	0.0001			
%RSD:	0.2	0.2	0.1796			

=====  
 Element: Hg Seq. No.: 135 AS Loc.: 7 Date: 03/17/2010  
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.355	5.355	0.0505	0.0533	13:30:12	No
2	5.241	5.241	0.0495	0.0522	13:30:47	No
Mean:	5.298	5.298	0.0500			
SD :	0.0809	0.0809	0.0008			
%RSD:	1.5	1.5	1.5090			

QC value within specified limits.

=====  
 Element: Hg Seq. No.: 136 AS Loc.: 8 Date: 03/17/2010  
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.070	0.070	0.0012	0.0040	13:32:15	No
2	0.071	0.071	0.0013	0.0040	13:32:49	No
Mean:	0.071	0.071	0.0013			
SD :	0.0005	0.0005	0.0000			
%RSD:	0.7	0.7	0.3472			

QC value within specified limits.

=====  
 Element: Hg Seq. No.: 137 AS Loc.: 95 Date: 03/17/2010  
 Sample ID: 1202072188|i|5||SDILT

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.896	0.896	0.0090	0.0117	13:34:13	No
2	0.879	0.879	0.0088	0.0115	13:34:48	No
Mean:	0.887	0.887	0.0089			
SD :	0.0126	0.0126	0.0001			
%RSD:	1.4	1.4	1.3220			

=====  
 Element: Hg Seq. No.: 138 AS Loc.: 96 Date: 03/17/2010  
 Sample ID: 249293002|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	6.392	6.392	0.0602	0.0630	13:36:09	No
2	6.654	6.654	0.0626	0.0654	13:36:44	No
Mean:	6.523	6.523	0.0614			
SD :	0.1850	0.1850	0.0017			
%RSD:	2.8	2.8	2.8086			

=====  
 Element: Hg Seq. No.: 139 AS Loc.: 97 Date: 03/17/2010  
 Sample ID: 249293003|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.231	2.231	0.0214	0.0242	13:38:06	No
2	2.212	2.212	0.0212	0.0240	13:38:41	No
Mean:	2.221	2.221	0.0213			
SD :	0.0136	0.0136	0.0001			
%RSD:	0.6	0.6	0.5934			

=====  
 Element: Hg Seq. No.: 140 AS Loc.: 98 Date: 03/17/2010  
 Sample ID: 249293004|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.745	5.745	0.0542	0.0569	13:40:03	No
2	5.744	5.744	0.0542	0.0569	13:40:37	No
Mean:	5.745	5.745	0.0542			

SD : 0.0007 0.0007 0.0000

%RSD:

=====  
Element: Hg Seq. No.: 141 AS Loc.: 7 Date: 03/17/2010  
Sample ID: CCV  
=====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	5.543	5.543	0.0523	0.0550	13:42:02	No
2	5.559	5.559	0.0524	0.0552	13:42:36	No
Mean:	5.551	5.551	0.0524			
SD :	0.0111	0.0111	0.0001			
%RSD:	0.2	0.2	0.1979			

QC value within specified limits.

=====  
Element: Hg Seq. No.: 142 AS Loc.: 8 Date: 03/17/2010  
Sample ID: CCB  
=====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.106	0.106	0.0016	0.0043	13:44:04	No
2	0.112	0.112	0.0016	0.0044	13:44:38	No
Mean:	0.109	0.109	0.0016			
SD :	0.0040	0.0040	0.0000			
%RSD:	3.7	3.7	2.3422			

QC value within specified limits.

=====  
Element: Hg Seq. No.: 143 AS Loc.: 57 Date: 03/17/2010  
Sample ID: 1202069779|i||964749|MB  
=====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.027	-0.027	0.0003	0.0031	13:48:55	No
2	-0.058	-0.058	0.0000	0.0028	13:49:30	No
Mean:	-0.043	-0.043	0.0002			
SD :	0.0220	0.0220	0.0002			
%RSD:	51.8	51.8	106.2090			

=====  
Element: Hg Seq. No.: 144 AS Loc.: 58 Date: 03/17/2010  
Sample ID: 1202069780|i||LCS  
=====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	4.188	4.188	0.0396	0.0424	13:50:54	No
2	4.185	4.185	0.0396	0.0424	13:51:30	No
Mean:	4.186	4.186	0.0396			
SD :	0.0019	0.0019	0.0000			
%RSD:						

=====  
Element: Hg Seq. No.: 145 AS Loc.: 59 Date: 03/17/2010  
Sample ID: 248520001|i||  
=====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.592	0.592	0.0061	0.0089	13:52:55	No
2	0.584	0.584	0.0060	0.0088	13:53:30	No
Mean:	0.588	0.588	0.0061			
SD :	0.0056	0.0056	0.0001			
%RSD:	1.0	1.0	0.8677			

=====  
Element: Hg Seq. No.: 146 AS Loc.: 60 Date: 03/17/2010  
Sample ID: 1202069781|i||DUP  
=====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.558	0.558	0.0058	0.0085	13:54:56	No
2	0.558	0.558	0.0058	0.0086	13:55:30	No
Mean:	0.558	0.558	0.0058			
SD :	0.0004	0.0004	0.0000			
%RSD:						

=====  
Element: Hg Seq. No.: 147 AS Loc.: 61 Date: 03/17/2010  
Sample ID: 1202069782|i||MS  
=====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	2.974	2.974	0.0283	0.0311	13:56:56	No
2	2.956	2.956	0.0282	0.0309	13:57:31	No
Mean:	2.965	2.965	0.0282			
SD :	0.0132	0.0132	0.0001			
%RSD:	0.4	0.4	0.4345			

=====  
Element: Hg Seq. No.: 148 AS Loc.: 62 Date: 03/17/2010  
Sample ID: 1202069784|i||MSD  
=====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	2.871	2.871	0.0274	0.0301	13:58:57	No
2	2.880	2.880	0.0275	0.0302	13:59:32	No
Mean:	2.876	2.876	0.0274			

SD : 0.0061 0.0061 0.0001  
 %RSD: 0.2 0.2 0.2082

=====  
 Element: Hg Seq. No.: 149 AS Loc.: 63 Date: 03/17/2010  
 Sample ID: 1202069783|i|5|SDILT  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.064	-0.064	0.0000	0.0027	14:00:54	No
2	-0.072	-0.072	-0.0001	0.0027	14:01:29	No
Mean:	-0.068	-0.068	0.0000			
SD :	0.0052	0.0052	0.0000			
%RSD:	7.7	7.7	113.4790			

=====  
 Element: Hg Seq. No.: 150 AS Loc.: 64 Date: 03/17/2010  
 Sample ID: 248520002|i|||  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	9.588	9.588	0.0900	0.0928	14:02:49	No
2	9.504	9.504	0.0892	0.0920	14:03:24	No
Mean:	9.546	9.546	0.0896			
SD :	0.0590	0.0590	0.0006			
%RSD:	0.6	0.6	0.6138			

=====  
 Element: Hg Seq. No.: 151 AS Loc.: 65 Date: 03/17/2010  
 Sample ID: 248520003|i|||  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.743	0.743	0.0075	0.0103	14:04:45	No
2	0.734	0.734	0.0074	0.0102	14:05:20	No
Mean:	0.739	0.739	0.0075			
SD :	0.0068	0.0068	0.0001			
%RSD:	0.9	0.9	0.8495			

=====  
 Element: Hg Seq. No.: 152 AS Loc.: 66 Date: 03/17/2010  
 Sample ID: 248520004|i|2||  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	6.713	6.713	0.0632	0.0660	14:06:41	No
2	6.491	6.491	0.0611	0.0639	14:07:15	No
Mean:	6.602	6.602	0.0622			
SD :	0.1570	0.1570	0.0015			
%RSD:	2.4	2.4	2.3551			

=====  
 Element: Hg Seq. No.: 153 AS Loc.: 7 Date: 03/17/2010  
 Sample ID: CCV  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.524	5.524	0.0521	0.0549	14:08:39	No
2	5.448	5.448	0.0514	0.0542	14:09:14	No
Mean:	5.486	5.486	0.0518			
SD :	0.0539	0.0539	0.0005			
%RSD:	1.0	1.0	0.9711			

QC value within specified limits.

=====  
 Element: Hg Seq. No.: 154 AS Loc.: 8 Date: 03/17/2010  
 Sample ID: CCB  
 =====



```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      0.045      0.045     0.0010    0.0038    14:10:42  No
2      0.047      0.047     0.0010    0.0038    14:11:17  No
Mean:   0.046      0.046     0.0010
SD :    0.0020     0.0020     0.0000
%RSD:   4.5        4.5       1.8756
QC value within specified limits.

```

```

=====
Element: Hg      Seq. No.: 155      AS Loc.: 67      Date: 03/17/2010
Sample ID: 248520005|i|||

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      0.166      0.166     0.0021    0.0049    14:12:41  No
2      0.133      0.133     0.0018    0.0046    14:13:15  No
Mean:   0.150      0.150     0.0020
SD :    0.0228     0.0228     0.0002
%RSD:   15.2       15.2      10.7093

```

```

=====
Element: Hg      Seq. No.: 156      AS Loc.: 68      Date: 03/17/2010
Sample ID: 248520006|i|||

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      1.176      1.176     0.0116    0.0143    14:14:36  No
2      1.167      1.167     0.0115    0.0142    14:15:11  No
Mean:   1.171      1.171     0.0115
SD :    0.0064     0.0064     0.0001
%RSD:   0.5        0.5       0.5169

```

```

=====
Element: Hg      Seq. No.: 157      AS Loc.: 69      Date: 03/17/2010
Sample ID: 248520007|i|||

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      2.407      2.407     0.0230    0.0258    14:16:34  No
2      2.407      2.407     0.0230    0.0258    14:17:09  No
Mean:   2.407      2.407     0.0230
SD :    0.0001     0.0001     0.0000
%RSD:

```

```

=====
Element: Hg      Seq. No.: 158      AS Loc.: 70      Date: 03/17/2010
Sample ID: 248520008|i|||

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      1.559      1.559     0.0151    0.0179    14:18:31  No
2      1.557      1.557     0.0151    0.0179    14:19:06  No
Mean:   1.558      1.558     0.0151
SD :    0.0020     0.0020     0.0000
%RSD:   0.1        0.1       0.1219

```

```

=====
Element: Hg      Seq. No.: 159      AS Loc.: 71      Date: 03/17/2010
Sample ID: 248520009|i|||

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      2.824      2.824     0.0269    0.0297    14:20:29  No
2      2.804      2.804     0.0267    0.0295    14:21:04  No
Mean:   2.814      2.814     0.0268

```

SD : 0.0147 0.0147 0.0001  
 %RSD: 0.5 0.5 0.5123

=====  
 Element: Hg Seq. No.: 160 AS Loc.: 72 Date: 03/17/2010  
 Sample ID: 248520010|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	1.113	1.113	0.0110	0.0137	14:22:27	No
2	1.119	1.119	0.0110	0.0138	14:23:02	No
Mean:	1.116	1.116	0.0110			
SD :	0.0041	0.0041	0.0000			
%RSD:	0.4	0.4	0.3454			

=====  
 Element: Hg Seq. No.: 161 AS Loc.: 73 Date: 03/17/2010  
 Sample ID: 248520011|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.506	0.506	0.0053	0.0081	14:24:26	No
2	0.499	0.499	0.0052	0.0080	14:25:02	No
Mean:	0.503	0.503	0.0053			
SD :	0.0049	0.0049	0.0000			
%RSD:	1.0	1.0	0.8680			

=====  
 Element: Hg Seq. No.: 162 AS Loc.: 74 Date: 03/17/2010  
 Sample ID: 248526001|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.159	0.159	0.0021	0.0048	14:26:27	No
2	0.170	0.170	0.0022	0.0049	14:27:02	No
Mean:	0.165	0.165	0.0021			
SD :	0.0078	0.0078	0.0001			
%RSD:	4.7	4.7	3.4253			

=====  
 Element: Hg Seq. No.: 163 AS Loc.: 100 Date: 03/17/2010  
 Sample ID: 1202074012|i||965684|PS

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	2.131	2.131	0.0205	0.0232	14:28:59	No
2	2.105	2.105	0.0202	0.0230	14:29:33	No
Mean:	2.118	2.118	0.0203			
SD :	0.0184	0.0184	0.0002			
%RSD:	0.9	0.9	0.8440			

=====  
 Element: Hg Seq. No.: 164 AS Loc.: 7 Date: 03/17/2010  
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	5.356	5.356	0.0505	0.0533	14:30:57	No
2	5.326	5.326	0.0503	0.0530	14:31:32	No
Mean:	5.341	5.341	0.0504			
SD :	0.0206	0.0206	0.0002			
%RSD:	0.4	0.4	0.3818			

QC value within specified limits.

=====  
 Element: Hg Seq. No.: 165 AS Loc.: 8 Date: 03/17/2010  
 Sample ID: CCB

---

Repl	SampleConc	StndConc	Blncorr	Peak	Time	Peak
#	µg/L	µg/L	Signal	Height		Stored
1	0.046	0.046	0.0010	0.0038	14:33:00	No
2	0.050	0.050	0.0011	0.0038	14:33:35	No
Mean:	0.048	0.048	0.0010			
SD :	0.0031	0.0031	0.0000			
%RSD:	6.4	6.4	2.7546			

QC value within specified limits.

# Miscellaneous

# Prep Logbook

## Acid Digestion of Sediments, Sludges, and Soils

Batch ID: 962563.0      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
1202065014 MB	16-MAR-2010 08:30:00	0.502	50	99.60159	
1202065015 LCS	16-MAR-2010 08:30:00	0.515	50	97.08738	
248515001	16-MAR-2010 08:30:00	0.525	50	95.2381	
248515002	16-MAR-2010 08:30:00	0.518	50	96.5251	
248515003	16-MAR-2010 08:30:00	0.52	50	96.15385	
248517001	16-MAR-2010 08:30:00	0.519	50	96.33911	
248520001	16-MAR-2010 08:30:00	0.52	50	96.15385	
248520002	16-MAR-2010 08:30:00	0.517	50	96.7118	
248520003	16-MAR-2010 08:30:00	0.501	50	99.8004	
248520004	16-MAR-2010 08:30:00	0.514	50	97.27626	
248520005	16-MAR-2010 08:30:00	0.512	50	97.65625	
248520006	16-MAR-2010 08:30:00	0.583	50	85.76329	
248520007	16-MAR-2010 08:30:00	0.528	50	94.69697	
248520008	16-MAR-2010 08:30:00	0.541	50	92.42144	
248520009	16-MAR-2010 08:30:00	0.506	50	98.81423	
248520010	16-MAR-2010 08:30:00	0.537	50	93.10987	
248520011	16-MAR-2010 08:30:00	0.534	50	93.63296	
248526001	16-MAR-2010 08:30:00	0.503	50	99.40358	
1202065016 DUP (248526001)	16-MAR-2010 08:30:00	0.533	50	93.80863	
1202065017 MS (248526001)	16-MAR-2010 08:30:00	0.509	50	98.23183	
1202065024 MSD (248526001)	16-MAR-2010 08:30:00	0.557	50	89.76661	
1202065018 SDILT (248526001)	16-MAR-2010 08:30:00	0.503	50	99.40358	

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202065015	Metals Soil LCS SRM ICPMS	U1062540-MS	.515	g	
MS	1202065017	ICP-MS Spike for soil products.	U1090827-A	.5	mL	Sample 248526001 consist of brown, medium soil.
MS	1202065017	ICP-MS Spike for Soil Products	U1090827-B	.5	mL	
MSD	1202065024	ICP-MS Spike for soil products.	U1090827-A	.5	mL	
MSD	1202065024	ICP-MS Spike for Soil Products	U1090827-B	.5	mL	
REGNT	All	Hydrogen Peroxide 30%	1250038-02	1.5	mL	
REGNT	All	Nitric Acid CONC.	1282566	5	mL	

# Prep Logbook

## Acid Digestion of Sediments, Sludges, and Soils

<b>Batch ID:</b> 962573.0	Verified by:	Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
<b>Analyst:</b> Anthony Green		LCS	1202065046	Metals Soil LCS SRM ICP/Hg	UI062540-I	.517	g
<b>Method:</b> SW846 3050B		MS	1202065048	Metals Spike Mix I	UI1268741-01	.25	mL
<b>Lab SOP:</b> GL-MA-E-009 REV# 19		MS	1202065048	Metals Spike Mix II	UI1268744-06	.25	mL
<b>Instrument:</b> BAL-001		MSD	1202065050	Metals Spike Mix I	UI1268741-01	.25	mL
		MSD	1202065050	Metals Spike Mix II	UI1268744-06	.25	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202065045 MB	16-MAR-2010 09:30:00	Soil	0.509	50	98.23183	
1202065046 LCS	16-MAR-2010 09:30:00	Soil	0.517	50	96.71118	
248515001	16-MAR-2010 09:30:00	Soil	0.542	50	92.25092	
248515002	16-MAR-2010 09:30:00	Soil	0.513	50	97.46589	
248515003	16-MAR-2010 09:30:00	Soil	0.5	50	100	
248517001	16-MAR-2010 09:30:00	Soil	0.537	50	93.10987	
248520001	16-MAR-2010 09:30:00	Soil	0.503	50	99.40358	
248520002	16-MAR-2010 09:30:00	Soil	0.538	50	92.9368	
248520003	16-MAR-2010 09:30:00	Soil	0.55	50	90.90909	
248520004	16-MAR-2010 09:30:00	Soil	0.515	50	97.08738	
248520005	16-MAR-2010 09:30:00	Soil	0.509	50	98.23183	
248520006	16-MAR-2010 09:30:00	Soil	0.583	50	85.76329	
248520007	16-MAR-2010 09:30:00	Soil	0.534	50	93.63296	
248520008	16-MAR-2010 09:30:00	Soil	0.533	50	93.80863	
248520009	16-MAR-2010 09:30:00	Soil	0.544	50	91.91176	
248520010	16-MAR-2010 09:30:00	Soil	0.561	50	89.12656	
248520011	16-MAR-2010 09:30:00	Soil	0.516	50	96.89922	
248526001	16-MAR-2010 09:30:00	Soil	0.527	50	94.87666	
1202065047 DUP (248526001)	16-MAR-2010 09:30:00	Soil	0.528	50	94.69697	
1202065048 MS (248526001)	16-MAR-2010 09:30:00	Soil	0.535	50	93.45794	
1202065050 MSD (248526001)	16-MAR-2010 09:30:00	Soil	0.513	50	97.46589	
1202065049 SDILT (248526001)	16-MAR-2010 09:30:00	Soil	0.527	50	94.87666	

**Reagent/Solvent Lot ID**    **Description**    **Amount**  
 Analytical Logbook version 111-04-2002    GEL Laboratories LLC

# Prep Logbook

Batch ID: 962573.0  
 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	1202065046	Metals Soil LCS SRM ICP/Hg	UI062540-1	.517	g
MS	1202065048	Metals Spike Mix I	UI1268741-01	.25	mL
MS	1202065048	Metals Spike Mix II	UI1268744-06	.25	mL
MSD	1202065050	Metals Spike Mix I	UI1268741-01	.25	mL
MSD	1202065050	Metals Spike Mix II	UI1268744-06	.25	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1282564	HYDROCHLORIC ACID	10 mL				
1282566	Nitric Acid CONC.	1.25 mL				
Comments: Sample 248526001 consist of brown, medium soil.						

# Prep Logbook

## Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

<b>Batch ID:</b> 964748.0	Verified by:	Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
<b>Analyst:</b> Tara Griffin		LCS	1202069780	Metals LCS Soil SRM	UJ031809A	.209	g
<b>Method:</b> SW846 7471A Prep		MS	1202069782	Mercury soil working intermediate standard for MS	WHG100316-14	.3	mL
<b>Lab SOP:</b> GL-MA-E-010 REV# 23		MSD	1202069784	Mercury soil working intermediate standard for MS	WHG100316-14	.3	mL
<b>Instrument:</b> BAL-002							

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202069779 MB	16-MAR-2010 14:30:00	Soil	0.545	30	55.04587	
1202069780 LCS	16-MAR-2010 14:30:00	Soil	0.209	30	143.54067	
248520001	16-MAR-2010 14:30:00	Soil	0.558	30	53.76344	
1202069781 DUP (248520001)	16-MAR-2010 14:30:00	Soil	0.581	30	51.63511	
1202069782 MS (248520001)	16-MAR-2010 14:30:00	Soil	0.51	30	58.82353	
1202069784 MSD (248520001)	16-MAR-2010 14:30:00	Soil	0.533	30	56.28518	
1202069783 SDILT (248520001)	16-MAR-2010 14:30:00	Soil	0.558	30	53.76344	
248520002	16-MAR-2010 14:30:00	Soil	0.53	30	56.60377	
248520003	16-MAR-2010 14:30:00	Soil	0.56	30	53.57143	
248520004	16-MAR-2010 14:30:00	Soil	0.537	30	55.86592	
248520005	16-MAR-2010 14:30:00	Soil	0.517	30	58.02708	
248520006	16-MAR-2010 14:30:00	Soil	0.549	30	54.64481	
248520007	16-MAR-2010 14:30:00	Soil	0.513	30	58.47953	
248520008	16-MAR-2010 14:30:00	Soil	0.5	30	60	
248520009	16-MAR-2010 14:30:00	Soil	0.513	30	58.47953	
248520010	16-MAR-2010 14:30:00	Soil	0.514	30	58.36576	
248520011	16-MAR-2010 14:30:00	Soil	0.525	30	57.14286	
248526001	16-MAR-2010 14:30:00	Soil	0.543	30	55.24862	

Reagent/Solvent Lot ID	Description	Amount	Comments:
125532-C	Hg reducing agent	2 mL	Sample 248520001 is a dry brown soil.
1274391-I	NITRIC ACID	.375 mL	Digestion Start Date: 16-MAR-10 14:30
1277235-A	Hydrochloric Acid Conc.	1.125 mL	Digestion End Date: 16-MAR-10 15:00
1277238-C	5% KMnO4 solution	7.5 mL	
WHG100316-07	Mercury Working Standard 1st Source CAL S 0.2/CRA	30 uL	
WHG100316-08	Mercury Working Standard 1st Source CAL S 0.5	75 uL	

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GEL Laboratories LLC



### DATA EXCEPTION REPORT

<b>Mo.Day Yr.</b> 06-APR-10	<b>Division:</b> Industrial	<b>Quality Criteria:</b> Specifications	<b>Type:</b> Process
<b>Instrument Type:</b> ICP	<b>Test / Method:</b> SW846 3050B/6010B	<b>Matrix Type:</b> Solid	<b>Client Code:</b> LANL
<b>Batch ID:</b> 962575	<b>Sample Numbers:</b> See Below		
<p><b>Potentially affected work order(s)(SDG):</b> 248515(10-2197),248517(10-2198),248520(10-2200),248526(10-2202)</p> <p><b>Application Issues:</b>  Failed Recovery for MS/PS  Failed RPD for MS/MSD, or PS/PSD  Failed RPD for DUP  Failed Recovery for LCS/LCSD  Failed Recovery for MSD/PSD</p>			
<b>Specification and Requirements</b>		<b>DER Disposition:</b>	
<b>Exception Description:</b>			
<p>1. Failed Recovery for MS/PS: QC 1202065048MS</p> <p>2. Failed RPD for DUP: QC 1202065047DUP</p> <p>3. Failed RPD for MS/MSD, or PS/PSD: QC 1202065050MSD</p> <p>4. Failed Recovery for LCS/LCSD: QC 1202065046LCS</p> <p>5. Failed Recovery for MSD/PSD: QC 1202065050MSD</p>		<p>1. The matrix spike recovery failed outside of the control limits for barium,calcium,lead,magnesium,manganese,potassium,sodium and zinc 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.</p> <p>2. The sample and sample duplicate % RPD failed outside the control limits for calcium and chromium 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.</p> <p>3. The matrix spike and matrix spike duplicate % RPD failed outside of the control limits for aluminum,barium,calcium,chromium,iron,lead, magnesium,manganese,potassium and zinc due to possible matrix interferences and/or sample non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.</p> <p>4. Silver and/or antimony did not meet the recovery acceptance criteria for the LCS. Per the DOE-AL statement of work, page forty, silver and antimony are exempt from the re-digestion requirement for LCS failures.</p> <p>5. The matrix spike duplicate recovery failed outside of the control limits for manganese and potassium 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.</p>	

**Originator's Name:**

Helen Camello 09-APR-10

**Data Validator/Group Leader:**

Louise Smith 13-APR-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:** 12-JUN-10  
**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:** 12-JAN-10  
**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

<b>Analyte</b>	<b>Concentration</b>	<b>Analyte</b>	<b>Concentration</b>
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

<b>Analyte</b>	<b>Concentration</b>	<b>Analyte</b>	<b>Concentration</b>
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      **Expires:** 31-OCT-10      **Lot Number :** 0930215  
**Employee:** Helen Camello      **Solvent :** HNO3  
**Supplier:** Environmental Express  
**Description:** Trace Calibration Std #1A  
**Comments:** None

<b>Analyte</b>	<b>Concentration</b>	<b>Analyte</b>	<b>Concentration</b>
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

<b>Analyte</b>	<b>Concentration</b>	<b>Analyte</b>	<b>Concentration</b>
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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:** UI100310-48      **Opened:** 19-MAR-10      **Amount :** 1000 mL  
**Name:** Trace ICP ICSA      **Received:** 12-MAR-10      **Catalog Number :** 160005-02  
**Type:** Source Material      **Expires:** 19-MAR-11      **Lot Number :** 1019141  
**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:** UI100310-49.13      **Opened:** 31-MAR-10      **Amount :** 100 ml  
**Name:** Trace ICP ICSAB      **Received:** 12-MAR-10      **Catalog Number :** 160066-04  
**Type:** Source Material      **Expires:** 01-APR-10      **Lot Number :** 1019142  
**Employee:** Helen Camello      **Solvent :** 3% HCl + 1% HNO3  
**Supplier:** o2si  
**Description:** Trace ICP Inteferent 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

# Standard Logbook

Analyte	Concentration	Analyte	Concentration
Nickel	500 ug/L	Phosphorous	2500 ug/L
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:** UI100317-06      **Opened:** 17-MAR-10      **Amount :** 250 mL  
**Name:** ICP-MS ICV/CCV Master A      **Received:** 17-MAR-10      **Catalog Number :** 160055-01  
**Type:** Source Material      **Expires:** 17-MAR-11      **Lot Number :** 1019161  
**Employee:** Paul Boyd      **Solvent :** +/- 0.5% in 5% HNO3 100 cm2  
**Supplier:** Q2SI  
**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:** UI100317-07      **Opened:** 17-MAR-10      **Amount :** 250 mL  
**Name:** ICP-MS ICV/CCV Master B      **Received:** 17-MAR-10      **Catalog Number :** 160054-02  
**Type:** Source Material      **Expires:** 17-MAR-11      **Lot Number :** 1019162  
**Employee:** Paul Boyd      **Solvent :** +/- 0.5% in 5% HNO3 100 cm2  
**Supplier:** Q2SI  
**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
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		

# Standard Logbook

**Serial ID:** UI100317-08      **Opened:** 17-MAR-10      **Amount :** 250 mL  
**Name:** ICP-MS ICV/CCV Master C      **Received:** 17-MAR-10      **Catalog Number :** 160054-03  
**Type:** Source Material      **Expires:** 17-MAR-11      **Lot Number :** 1019163  
**Employee:** Paul Boyd      **Solvent :** +/- 0.5% in 5% HNO3 100 cm2  
**Supplier:** 02SI  
**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:** UI100318-11      **Opened:** 18-MAR-10      **Amount :** 1000 mL  
**Name:** ICP-MS ICSA Master A      **Received:** 18-MAR-10      **Catalog Number :** 160013-01-01L  
**Type:** Source Material      **Expires:** 18-MAR-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:** UI100325-40      **Opened:** 25-MAR-10      **Amount :** 500 mL  
**Name:** ICP HIGH RANGE STD-A      **Received:** 25-MAR-10      **Catalog Number :** 160211-05-03  
**Type:** Source Material      **Expires:** 25-MAR-11      **Lot Number :** 1019348  
**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

# Standard Logbook

Analyte	Concentration	Analyte	Concentration
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:** UI100325-41      **Opened:** 25-MAR-10      **Amount :** 500 mL  
**Name:** ICP HIGH RANGE STD B      **Received:** 25-MAR-10      **Catalog Number :** 160211-05-03  
**Type:** Source Material      **Expires:** 25-MAR-11      **Lot Number :** 1019348  
**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

**Serial ID:** UI100405-12      **Opened:** 05-APR-10      **Amount :** 250 mL  
**Name:** ICP-MS ICSAB Master B      **Received:** 05-APR-10      **Catalog Number :** 160033-02  
**Type:** Source Material      **Expires:** 05-APR-11      **Lot Number :** 1019466  
**Employee:** Paul Boyd      **Solvent :** +/- 0.5% in 2% HNO3  
**Supplier:** 02SI  
**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		

# Standard Logbook

**Serial ID:** UI100405-13      **Opened:** 05-APR-10      **Amount :** 250 mL  
**Name:** ICP-MS ICSAB Master C      **Received:** 05-APR-10      **Catalog Number :** 160033-03  
**Type:** Source Material      **Expires:** 05-APR-11      **Lot Number :** 1019467  
**Employee:** Paul Boyd      **Solvent :** +/- 0.5% in 2% HNO3  
**Supplier:** Q2SI  
**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:** UI1268741-01      **Opened:** 11-FEB-10      **Lot Number :** 1018514  
**Name:** METALSPIKE-1      **Received:** 11-FEB-10  
**Type:** Source Material      **Expires:** 11-FEB-11  
**Employee:** Bryan Davis  
**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:** UI1268744-06      **Opened:** 11-FEB-10      **Lot Number :** 1018515  
**Name:** METALSPIKE-2      **Received:** 11-FEB-10  
**Type:** Source Material      **Expires:** 11-FEB-11  
**Employee:** Bryan Davis  
**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

# Standard Logbook

Analyte	Concentration	Analyte	Concentration
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

**Serial ID:** UMS100226-01      **Opened:** 26-FEB-10      **Amount :** 250 mL  
**Name:** ICPMSCaSPIKEB      **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:** ICPMSCaSPIKEA      **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:** ICPMSCaSPIKEC      **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

# Standard Logbook

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		

Serial ID: IHG100316-01      Opened: 16-MAR-10      Instrument Id : Mercury  
 Name: MHGINTER1      Received: 16-MAR-10      Pipet Id : Minou1  
 Type: Intermediate      Expires: 17-MAR-10      Solvent : 1mL HNO3 + Typel 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: IHG100316-02      Opened: 16-MAR-10      Pipet Id : Minou1  
 Name: MHGINTER2      Received: 16-MAR-10      Solvent : 2% HNO3-1274391  
 Type: Intermediate      Expires: 17-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: WHG100316-07      Opened: 16-MAR-10      Pipet Id : Hg1289245  
 Name: MHGWORKCALS0.2CRA      Received: 16-MAR-10      Solvent : 2% HNO3-1274391  
 Type: Working      Expires: 23-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.
IHG100316-01	Mercury	200 ug/L	30 uL	30 mL	.2 ug/L

Serial ID: WHG100316-08      Opened: 16-MAR-10      Pipet Id : Hg1289245  
 Name: MHGWORKCALS0.5      Received: 16-MAR-10      Solvent : 2% HNO3-1274391  
 Type: Working      Expires: 23-MAR-10  
 Employee: Tara Griffin      Verified: 20-JUL-07  
 Supplier: GEL

# Standard Logbook

**Description:** Mercury Working Standard 1st Source CAL S 0.5

**Comments:** None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100316-01	Mercury	200 ug/L	75 uL	30 mL	.5 ug/L

**Serial ID:** WHG100316-09      **Opened:** 16-MAR-10      **Pipet Id :** Hg1289245  
**Name:** MHGWORKCALS2.0      **Received:** 16-MAR-10      **Solvent :** 2% HNO3-1274391  
**Type:** Working      **Expires:** 23-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.
IHG100316-01	Mercury	200 ug/L	300 uL	30 mL	2 ug/L

**Serial ID:** WHG100316-10      **Opened:** 16-MAR-10      **Pipet Id :** Hg1289245  
**Name:** MHGWORKCALS5.0CCV      **Received:** 16-MAR-10      **Solvent :** 2% HNO3-1274391  
**Type:** Working      **Expires:** 23-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.
IHG100316-01	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

**Serial ID:** WHG100316-11      **Opened:** 16-MAR-10      **Pipet Id :** Hg1289245  
**Name:** MHGWORKCALS10.0      **Received:** 16-MAR-10      **Solvent :** 2% HNO3-1274391  
**Type:** Working      **Expires:** 23-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.
IHG100316-01	Mercury	200 ug/L	1.5 mL	30 mL	10 ug/L

**Serial ID:** WHG100316-12      **Opened:** 16-MAR-10      **Pipet Id :** Hg1289245  
**Name:** MHGWORKS5.0ICV      **Received:** 16-MAR-10      **Solvent :** 2% HNO3-1274391  
**Type:** Working      **Expires:** 23-MAR-10  
**Employee:** Tara Griffin      **Verified:** 20-JUL-07  
**Supplier:** GEL

**Description:** Mercury Working 2nd Source S 5.0/ICV



# Standard Logbook

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100316-02	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100316-14      Opened: 16-MAR-10      Pipet Id : Hg1289245  
 Name: MHGSOILMSSPIKE      Received: 16-MAR-10      Solvent : 2% HNO3-1274391  
 Type: Working      Expires: 23-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: WI100330-42      Opened: 30-MAR-10      Balance Id : 216  
 Name: TRACE ICP 0.1 PPM STD.      Received: 02-NOV-09      Pipet Id : 3581809  
 Type: Working      Expires: 31-MAR-10      Solvent : 3%HCL and 1%HNO3 -1293083  
 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.
WI100330-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100330-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100330-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100330-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100330-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100330-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100330-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100330-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100330-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100330-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100330-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100330-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

**Serial ID:** WI100330-43      **Opened:** 30-MAR-10      **Balance Id :** 216  
**Name:** TRACE ICP 0.5/CCV STD.      **Received:** 02-NOV-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 31-MAR-10      **Solvent :** 3%HCL and 1%HNO3 -1293083  
**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
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

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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:** WI100330-44      **Opened:** 30-MAR-10      **Balance Id :** 216  
**Name:** TRACE ICP SCAL 1.0      **Received:** 02-NOV-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 31-MAR-10      **Solvent :** 3%HCL and 1 %HNO3-1293083  
**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
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

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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:** WI100330-45      **Opened:** 30-MAR-10      **Balance Id :** 216  
**Name:** TRACE ICP S-10 STD      **Received:** 22-APR-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 31-MAR-10      **Solvent :** 3%HCL and 1%HNO3 -1293083  
**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:** WI100330-46      **Opened:** 30-MAR-10      **Balance Id :** 216  
**Name:** ICP TRACE ICV      **Received:** 25-SEP-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 31-MAR-10      **Solvent :** 3%HCL AND 1%HNO3-1293083  
**Employee:** Helen Camello  
**Supplier:** GEL  
**Description:** Initial Calibration Verification ICP Trace Metals  
**Comments:** None

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

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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:** WI100330-47      **Opened:** 30-MAR-10      **Balance Id :** 216  
**Name:** PQL Working Standard      **Received:** 30-JUN-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 31-MAR-10      **Solvent :** 3%HCL & 1%HNO3-1293083  
**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
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

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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:** WI100331-42      **Opened:** 31-MAR-10      **Balance Id :** 216  
**Name:** TRACE ICP 0.1 PPM STD.      **Received:** 02-NOV-09      **Pipet Id :** 3581809  
**Type:** Working      **Expres:** 01-APR-10      **Solvent :** 3%HCL and 1%HNO3 -1293083  
**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.
WI100331-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100331-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100331-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100331-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100331-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100331-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100331-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100331-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100331-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100331-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100331-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

**Serial ID:** WI100331-43      **Opened:** 31-MAR-10      **Balance Id :** 216  
**Name:** TRACE ICP 0.5/CCV STD.      **Received:** 02-NOV-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 01-APR-10      **Solvent :** 3%HCL and 1%HNO3 -1293083  
**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
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

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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:** WI100331-44      **Opened:** 31-MAR-10      **Balance Id :** 216  
**Name:** TRACE ICP SCAL 1.0      **Received:** 02-NOV-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 01-APR-10      **Solvent :** 3%HCL and 1 %HNO3-1293083  
**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
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



# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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:** WI100331-45      **Opened:** 31-MAR-10      **Balance Id :** 216  
**Name:** TRACE ICP S-10 STD      **Received:** 22-APR-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 01-APR-10      **Solvent :** 3%HCL and 1%HNO3 -1293083  
**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:** WI100331-46      **Opened:** 31-MAR-10      **Balance Id :** 216  
**Name:** ICP TRACE ICV      **Received:** 25-SEP-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 01-APR-10      **Solvent :** 3%HCL AND 1%HNO3-1293083  
**Employee:** Helen Camello  
**Supplier:** GEL  
**Description:** Initial Calibration Verification ICP Trace Metals  
**Comments:** None

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

## Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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:** WI100331-47      **Opened:** 31-MAR-10      **Balance Id :** 216  
**Name:** PQL Working Standard      **Received:** 30-JUN-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 01-APR-10      **Solvent :** 3%HCL &1%HNO3-1293083  
**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
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

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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:** WMS100413-04      **Opened:** 13-APR-10      **Amount :** 50 mL  
**Name:** ICPMS Cal Standard 100      **Received:** 13-APR-10      **Balance Id :** 4025216  
**Type:** Working      **Expires:** 14-APR-10      **Pipet Id :** 3541598  
**Employee:** Paul Boyd      **Solvent :** 2%HNO3/1%HCl-1300209  
**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

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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:** WMS100413-04A      **Opened:** 13-APR-10      **Balance Id :** 4025216  
**Name:** ICPMS Cal Standard 10      **Received:** 13-APR-10      **Pipet Id :** 3541598  
**Type:** Working      **Expires:** 14-APR-10      **Solvent :** 2%HNO3/1%HCl - 1300209  
**Employee:** Paul Boyd  
**Supplier:** GEL  
**Description:** ICPMS Calibration Standard (10 ppb)  
**Comments:** None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100413-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100413-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100413-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100413-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100413-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100413-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100413-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100413-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100413-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100413-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

**Serial ID:** WMS100413-05      **Opened:** 13-APR-10      **Balance Id :** 40245216  
**Name:** ICPMS ICV      **Received:** 13-APR-10      **Pipet Id :** 3541598  
**Type:** Working      **Expres:** 14-APR-10      **Solvent :** 2%HNO3/1%HCl - 1300209  
**Employee:** Paul Boyd  
**Supplier:** GEL  
**Description:** ICPMS ICV  
**Comments:** None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI100317-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI100317-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

**Serial ID:** WMS100413-06      **Opened:** 13-APR-10      **Balance Id :** 40245216  
**Name:** ICPMS CRDL      **Received:** 13-APR-10      **Pipet Id :** 3820544  
**Type:** Working      **Expires:** 14-APR-10      **Solvent :** 2%HNO3/1%HCl - 1300209  
**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

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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:** WMS100413-07      **Opened:** 13-APR-10      **Balance Id :** 40245216  
**Name:** ICPMS ICSA      **Received:** 13-APR-10      **Lot Number :** 1010773  
**Type:** Working      **Expires:** 14-APR-10      **Pipet Id :** 3541598  
**Employee:** Paul Boyd      **Solvent :** 2%HNO3/1%HCl - 1300209  
**Supplier:** GEL  
**Description:** ICPMS ICSA  
**Comments:** None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100318-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100318-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100318-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

**Serial ID:** WMS100413-08      **Opened:** 13-APR-10      **Balance Id :** 40245216  
**Name:** ICPMS ICSAB      **Received:** 13-APR-10      **Pipet Id :** 1758088  
**Type:** Working      **Expires:** 14-APR-10      **Solvent :** 2%HNO3/1%HCl - 1300209  
**Employee:** Paul Boyd  
**Supplier:** GEL  
**Description:** ICPMS ICSAB  
**Comments:** None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100318-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100318-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100318-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100318-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L
UI100405-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI100405-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI100405-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI100405-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI100405-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI100405-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI100405-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI100405-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI100405-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L

**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



# Standard Logbook

**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

**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:** 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

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1156689-A	B-KMnO4(VWR)-MER	Crystals	50 g	1000 mL	3%

Serial ID: <u>1277916</u>	Opened: <u>02-MAR-10</u>	Lot Number : <u>J02039</u>
Name: <u>I-HCL</u>	Received: <u>02-MAR-10</u>	Preservative_Id : <u>5 none</u>
Type: <u>Reagent/Solvent</u>	Expires: <u>02-MAR-11</u>	
Employee: <u>Francena Armstrong</u>		
Supplier: <u>J.T. BAKER</u>		
Description: <u>HYDROCHLORIC ACID</u>		
Comments: <u>None</u>		

Serial ID: <u>1282564</u>	Opened: <u>09-MAR-10</u>	Lot Number : <u>J02039</u>
Name: <u>I-HCL</u>	Received: <u>09-MAR-10</u>	Preservative_Id : <u>5 none</u>
Type: <u>Reagent/Solvent</u>	Expires: <u>09-MAR-11</u>	
Employee: <u>Anthony Green</u>		
Supplier: <u>J.T. BAKER</u>		
Description: <u>HYDROCHLORIC ACID</u>		
Comments: <u>None</u>		

Serial ID: <u>1282566</u>	Opened: <u>09-MAR-10</u>	Lot Number : <u>J 04043 L</u>
Name: <u>I-HNO3</u>	Received: <u>09-MAR-10</u>	
Type: <u>Reagent/Solvent</u>	Expires: <u>09-MAR-11</u>	
Employee: <u>Anthony Green</u>		
Supplier: <u>BAKER</u>		
Description: <u>Nitric Acid CONC.</u>		
Comments: <u>None</u>		

Serial ID: <u>1291278</u>	Opened: <u>25-MAR-10</u>	Lot Number : <u>J 08035 L</u>
Name: <u>I-HNO3</u>	Received: <u>25-MAR-10</u>	
Type: <u>Reagent/Solvent</u>	Expires: <u>25-MAR-11</u>	
Employee: <u>Anthony Green</u>		
Supplier: <u>BAKER</u>		
Description: <u>Nitric Acid CONC.</u>		
Comments: <u>None</u>		

Serial ID: <u>1293083</u>	Opened: <u>29-MAR-10</u>	Amount : <u>20 L</u>
Name: <u>B-ICP-RINSE SOLN</u>	Received: <u>29-MAR-10</u>	Lot Number : <u>H04040+G34050</u>
Type: <u>Reagent/Solvent</u>	Expires: <u>04-APR-10</u>	Solvent : <u>3%HCL+1%HNO3</u>
Employee: <u>Helen Camello</u>		
Supplier: <u>GEL</u>		
Description: <u>3%HCL+1%HNO3 RINSE SOLN.</u>		
Comments: <u>None</u>		

## Standard Logbook

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**Serial ID:** 1300209      **Opened:** 12-APR-10      **Solvent :**      Type I Water  
**Name:** B-2%HNO3/1%HCl-ICPMS      **Received:** 12-APR-10  
**Type:** Reagent/Solvent      **Expires:** 19-APR-10  
**Employee:** Paul Boyd  
**Supplier:** GEL  
**Description:** 2%HNO3/1%HCl Solution (Type I Water)  
**Comments:** None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1277916	I-HCL	36.5-38.0	90 mL	9 l	N/A
1291278	I-HNO3	69.0-70.0	180 mL	9 l	N/A

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# **General Chemistry Analysis**

# Case Narrative

**General Chemistry Narrative  
Los Alamos National Laboratory (LANL)  
SDG 10-2200**

**Method/Analysis Information**

**Product:** pH

**Analytical Batch:** 961560 and 961563    **Method:** SW9045C pH

**Sample Analysis**

The following samples were analyzed using the analytical protocol as established in SW846 9045C/9045D:

<b>Sample ID</b>	<b>Client ID</b>
248520001	RE36-10-8288
248520002	RE36-10-8279
248520003	RE36-10-8277
248520004	RE36-10-8280
248520005	RE36-10-8278
248520006	RE36-10-8274
248520007	RE36-10-8291
248520008	RE36-10-8287
248520009	RE36-10-8273
248520010	RE36-10-8275
248520011	RE36-10-8276
1202062454	248511008(RE36-10-7444) Sample Duplicate (DUP)
1202062455	248511009(RE36-10-7448) Sample Duplicate (DUP)
1202062456	Laboratory Control Sample (LCS)
1202062460	248520004(RE36-10-8280) Sample Duplicate (DUP)
1202062461	248520005(RE36-10-8278) Sample Duplicate (DUP)
1202062462	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 pH Meter Orion 370.

**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 recoveries met the acceptance limits.

##### **Quality Control (QC) Designation**

The following samples were selected for QC analysis: 248511008 (RE36-10-7444), 248511009 (RE36-10-7448)- Batch 961560, 248520004 (RE36-10-8280) and 248520005 (RE36-10-8278)- Batch 961563.

##### **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: 1202062454 (RE36-10-7444), 1202062455 (RE36-10-7448), 248520001 (RE36-10-8288), 248520002 (RE36-10-8279), 248520003 (RE36-10-8277)- Batch 961560, 248520004 (RE36-10-8280), 248520005 (RE36-10-8278), 248520006 (RE36-10-8274), 248520007 (RE36-10-8291), 248520008 (RE36-10-8287), 248520009 (RE36-10-8273), 248520010 (RE36-10-8275) and 248520011 (RE36-10-8276)- Batch 961563.

##### **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:** 961288      **Method:** SW9012A Cyanide and Total  
**Prep Batch :** 961287      **Method:** SSW846 9010B Prep

### **Sample Analysis**

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

<b>Sample ID</b>	<b>Client ID</b>
248520001	RE36-10-8288
248520002	RE36-10-8279
248520003	RE36-10-8277
248520004	RE36-10-8280
248520005	RE36-10-8278
248520006	RE36-10-8274
248520007	RE36-10-8291
248520008	RE36-10-8287
248520009	RE36-10-8273
248520010	RE36-10-8275
248520011	RE36-10-8276
1202061957	Method Blank (MB)
1202061958	248520001(RE36-10-8288) Sample Duplicate (DUP)
1202061959	248520002(RE36-10-8279) Sample Duplicate (DUP)
1202061960	248520001(RE36-10-8288) Matrix Spike (MS)
1202061961	248520002(RE36-10-8279) Matrix Spike (MS)
1202061962	248520001(RE36-10-8288) Matrix Spike Duplicate (MSD)
1202061963	248520002(RE36-10-8279) Matrix Spike Duplicate (MSD)
1202061964	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: 248520001 (RE36-10-8288) and 248520002 (RE36-10-8279).

**Matrix Spike (MS)/Post Spike (PS) Recovery Statement**

The spike recovery falls outside of the client specified acceptance limits due to matrix interference: 1202061960 (RE36-10-8288) and 1202061961 (RE36-10-8279).

**Matrix Spike Duplicate (MSD) Recovery Statement**

The spike recovery duplicate falls outside of the client specified acceptance limits due to matrix interference: 1202061962 (RE36-10-8288) and 1202061963 (RE36-10-8279).

**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 Relative Percent Difference (RPD) between the sample and its duplicate falls outside of the normal acceptance limits for samples 1202061959 (RE36-10-8279) and 248520002 (RE36-10-8279) because of the heterogeneous matrix of the sample.

**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: 1202061964 (LCS).

**Sample Re-analysis**

The following sample was re-analyzed to verify that matrix interference caused unacceptable recovery in the spike QC: 1202061962 (RE36-10-8288).

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

The following DER was generated for this SDG: 805636 1202061959 (RE36-10-8279), 1202061960 (RE36-10-8288), 1202061961 (RE36-10-8279), 1202061962 (RE36-10-8288) and 1202061963 (RE36-10-8279).

**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:** 968241 **Method:** EPA 300.0 Nitrate in Soil  
**Prep Batch :** 968239 **Method:** EPA 300.0 PREP

### **Sample Analysis**

The following samples were analyzed using the analytical protocol as established in EPA 300.0:

<b>Sample ID</b>	<b>Client ID</b>
248520001	RE36-10-8288
248520002	RE36-10-8279
248520003	RE36-10-8277
248520004	RE36-10-8280
248520005	RE36-10-8278
248520006	RE36-10-8274
248520007	RE36-10-8291
248520008	RE36-10-8287
248520009	RE36-10-8273
248520010	RE36-10-8275
248520011	RE36-10-8276
1202078566	Method Blank (MB)
1202078567	248515001(RE36-10-7501) Sample Duplicate (DUP)
1202078568	248520011(RE36-10-8276) Sample Duplicate (DUP)
1202078569	248515001(RE36-10-7501) Matrix Spike (MS)
1202078570	248520011(RE36-10-8276) Matrix Spike (MS)
1202078571	248515001(RE36-10-7501) Matrix Spike Duplicate (MSD)
1202078572	248520011(RE36-10-8276) Matrix Spike Duplicate (MSD)
1202078573	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: 248515001 (RE36-10-7501) and 248520011 (RE36-10-8276).

**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 AlphaLins 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 samples in this SDG did not require re-analysis.

### **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: Y. K. Cole A. Elmore Date: 3-29-10

# 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: 10-2200 GEL Work Order: 248520

**The Qualifiers in this report are defined as follows:**

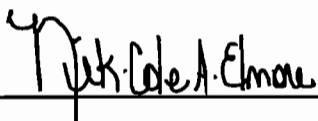
- \* Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- \*\* Indicates the analyte is a surrogate compound.

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



3-29-10



# GEL LABORATORIES LLC

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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 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8288  
Sample ID: 248520001  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 16.4%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.5C	H	6.15	0.010	0.100	SU	1	TXT1	03/05/10	1730	961560	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	173	78.3	288	ug/kg	1	AXC2	03/11/10	1633	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		5.08	0.359	1.20	mg/kg	1	GXM	03/25/10	0955	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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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Los Alamos, New Mexico 87545

Contact: Ms. Joylene Valdez

Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8279  
Sample ID: 248520002  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 7.1%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.4C	H	6.29	0.010	0.100	SU	1	TXT1	03/05/10	1733	961560	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		838	70.4	259	ug/kg	1	AXC2	03/11/10	1636	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		54.1	0.323	1.08	mg/kg	1	GXM	03/25/10	1124	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8277  
Sample ID: 248520003  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 25.4%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.5C	H	6.80	0.010	0.100	SU	1	TXT1	03/05/10	1735	961560	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		364	78.6	289	ug/kg	1	AXC2	03/11/10	1643	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.23	0.402	1.34	mg/kg	1	GXM	03/25/10	1154	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8280  
Sample ID: 248520004  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 9.46%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.3C	H	6.12	0.010	0.100	SU	1	TXT1	03/05/10	1514	961563	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		1120	65.9	242	ug/kg	1	AXC2	03/11/10	1644	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		20.4	0.331	1.10	mg/kg	1	GXM	03/25/10	1224	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8278  
Sample ID: 248520005  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 6.35%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.6C	H	5.51	0.010	0.100	SU	1	TXT1	03/05/10	1517	961563	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		317	63.7	234	ug/kg	1	AXC2	03/11/10	1645	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.44	0.320	1.07	mg/kg	1	GXM	03/25/10	1254	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8274  
Sample ID: 248520006  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 10.2%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.3C	H	6.24	0.010	0.100	SU	1	TXT1	03/05/10	1528	961563	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	105	66.4	244	ug/kg	1	AXC2	03/11/10	1646	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.43	0.334	1.11	mg/kg	1	GXM	03/25/10	1324	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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

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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 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8291  
Sample ID: 248520007  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 28.9%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.2C	H	6.61	0.010	0.100	SU	1	TXT1	03/05/10	1531	961563	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		1060	85.4	314	ug/kg	1	AXC2	03/11/10	1647	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		3.60	0.422	1.41	mg/kg	1	GXM	03/25/10	1354	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### The following Analytical Methods were performed

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

# GEL LABORATORIES LLC

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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 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8287  
Sample ID: 248520008  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 32.9%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.2C	H	6.37	0.010	0.100	SU	1	TXT1	03/05/10	1532	961563	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		498	90.5	333	ug/kg	1	AXC2	03/11/10	1648	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		3.36	0.447	1.49	mg/kg	1	GXM	03/25/10	1424	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8273  
Sample ID: 248520009  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 29%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.1C	H	6.67	0.010	0.100	SU	1	TXT1	03/05/10	1534	961563	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		436	92.1	339	ug/kg	1	AXC2	03/11/10	1648	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		4.43	0.423	1.41	mg/kg	1	GXM	03/25/10	1454	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8275  
Sample ID: 248520010  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 40.1%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.1C	H	6.57	0.010	0.100	SU	1	TXT1	03/05/10	1538	961563	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		472	109	402	ug/kg	1	AXC2	03/11/10	1649	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.501	1.67	mg/kg	1	GXM	03/25/10	1523	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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  
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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2200

Client Sample ID: RE36-10-8276  
Sample ID: 248520011  
Matrix: R  
Collect Date: 25-FEB-10 12:00  
Receive Date: 03-MAR-10  
Collector: Client  
Moisture: 14.6%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Electrode Analysis</b>											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.0C	H	6.72	0.010	0.100	SU	1	TXT1	03/05/10	1541	961563	1
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		527	73.8	271	ug/kg	1	AXC2	03/11/10	1650	961288	2
<b>Ion Chromatography</b>											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.73	0.351	1.17	mg/kg	1	GXM	03/25/10	1652	968241	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	GXM3	03/24/10	1411	968239
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1417	961287

### 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

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

## QC Summary

Report Date: March 27, 2010

Page 1 of 3

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

Contact:  
Workorder: 248520

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Electrode Analysis</b>											
Batch	961560										
QC1202062454	248511008	DUP									
pH		H	6.47	H	6.43	SU	0.620	(0%-10%)	TXT1	03/05/10	16:48
QC1202062455	248511009	DUP									
pH		H	7.68	H	7.76	SU	1.04	(0%-10%)		03/05/10	16:53
QC1202062456	LCS										
pH	7.00				6.95	SU		99.3	(95%-105%)		03/05/10 16:43
Batch	961563										
QC1202062460	248520004	DUP									
pH		H	6.12	H	6.29	SU	2.74	(0%-10%)	TXT1	03/05/10	15:16
QC1202062461	248520005	DUP									
pH		H	5.51	H	5.57	SU	1.08	(0%-10%)		03/05/10	15:22
QC1202062462	LCS										
pH	7.00				6.99	SU		99.9	(95%-105%)		03/05/10 14:56
<b>Flow Injection Analysis</b>											
Batch	961288										
QC1202061958	248520001	DUP									
Cyanide, Total		J	173	J	180	ug/kg	3.92 ^	(+/-293)	AXC2	03/11/10	16:33
QC1202061959	248520002	DUP									
Cyanide, Total			838		1260	ug/kg	40.1 * ^	(+/-269)		03/11/10	16:37
QC1202061964	LCS										
Cyanide, Total	67900				45000	ug/kg		66.3	(32%-157%)		03/11/10 16:32
QC1202061957	MB										
Cyanide, Total				U	250	ug/kg				03/11/10	16:31
QC1202061960	248520001	MS									
Cyanide, Total	5650	J	173		2180	ug/kg		35.5	(26%-158%)		03/11/10 16:34
QC1202061961	248520002	MS									
Cyanide, Total	5180		838		3070	ug/kg		43.2	(26%-158%)		03/11/10 16:38
QC1202061962	248520001	MSD									
Cyanide, Total	5980	J	173		2390	ug/kg	9.13	37	(0%-30%)		03/11/10 16:56
QC1202061963	248520002	MSD									
Cyanide, Total	5080		838		3220	ug/kg	4.77	47	(0%-30%)		03/11/10 16:39
<b>Ion Chromatography</b>											
Batch	968241										
QC1202078567	248515001	DUP									
Nitrate-N		U	ND	U	ND	mg/kg	N/A		GXM3	03/25/10	06:55
QC1202078568	248520011	DUP									
Nitrate-N			1.73		1.73	mg/kg	0.0676 ^	(+/-1.17)		03/25/10	17:22
QC1202078573	LCS										
Nitrate-N	50.0				48.1	mg/kg		96.2	(90%-110%)		03/25/10 05:55
QC1202078566	MB										
Nitrate-N				U	1.00	mg/kg				03/25/10	05:25
QC1202078569	248515001	MS									

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## QC Summary

Workorder: 248520

Page 2 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Ion Chromatography</b>											
Batch	968241										
Nitrate-N	65.8	U	ND	61.7	mg/kg		93.8	(90%-110%)		03/25/10	07:25
QC1202078570 248520011 MS											
Nitrate-N	58.6		1.73	56.0	mg/kg		92.7	(90%-110%)	GXM3	03/25/10	17:51
QC1202078571 248515001 MSD											
Nitrate-N	65.8	U	ND	62.3	mg/kg	1.03	94.7	(0%-20%)		03/25/10	07:55
QC1202078572 248520011 MSD											
Nitrate-N	58.6		1.73	56.0	mg/kg	0.0502	92.7	(0%-20%)		03/25/10	18:21

### 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

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### QC Summary

Workorder: 248520

Page 3 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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										

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: 27-MAR-2010 13:21

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-2200

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	11-MAR-2010 16:25:47	OM_3-11-2010_16-17-08	146	150	97.3	(90%-110%)	Yes
CCV	11-MAR-2010 16:40:04	OM_3-11-2010_16-17-08	105	100	105	(90%-110%)	Yes
CCV	11-MAR-2010 16:52:29	OM_3-11-2010_16-17-08	106	100	106	(90%-110%)	Yes
CCV	11-MAR-2010 17:04:53	OM_3-11-2010_16-17-08	107	100	107	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	11-MAR-2010 16:27:38	OM_3-11-2010_16-17-08	-0.946	10	Yes
CCB	11-MAR-2010 16:41:54	OM_3-11-2010_16-17-08	-1.15	10	Yes
CCB	11-MAR-2010 16:54:20	OM_3-11-2010_16-17-08	-1.18	10	Yes
CCB	11-MAR-2010 17:06:44	OM_3-11-2010_16-17-08	-1.02	10	Yes

# INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 27-MAR-2010 13:21

**GEL Laboratories LLC**

**Contract: LANL01004**

**SDG #: 10-2200**

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
<b>ICV</b>	<b>25-MAR-2010 04:26:00</b>	<b>100325</b>	<b>4.8179</b>	<b>5</b>	<b>96.4</b>	<b>(90%-110%)</b>	<b>Yes</b>
CCV	25-MAR-2010 10:24:00	100325	7.521	7.5	100	(90%-110%)	Yes
CCV	25-MAR-2010 15:53:00	100325	4.7985	5	96	(90%-110%)	Yes
CCV	25-MAR-2010 19:21:00	100325	7.518	7.5	100	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
<b>ICB</b>	<b>25-MAR-2010 04:55:00</b>	<b>100325</b>	<b>0</b>	<b>0.1</b>	<b>Yes</b>
CCB	25-MAR-2010 10:54:00	100325	0	0.1	Yes
CCB	25-MAR-2010 16:23:00	100325	0	0.1	Yes
CCB	25-MAR-2010 19:51:00	100325	0	0.1	Yes

# Cyanide, Total

# Prep Logbook

## Cyanide Sample Distillation

<b>Batch ID:</b> 961287.0	Verified by:	Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
<b>Analyst:</b> Alan Stanley		LCS	1202061964	Total Cyanide Solid LCS	URF1200957-01	.25	g
<b>Method:</b> SW846 9010B Prep		MS	1202061960	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
<b>Lab SOP:</b> GL-GC-E-067 REV# 13		MS	1202061961	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
<b>Instrument:</b> Sartorius Balance B-001		MSD	1202061962	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
		MSD	1202061963	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
1202061957 MB	11-MAR-2010 14:17:00	Soil	0.5	25	50	>12
1202061964 LCS	11-MAR-2010 14:17:00	Soil	0.25	25	100	>12
248520001	11-MAR-2010 14:17:00	Soil	0.52	25	48.07692	>12
1202061958 DUP (248520001)	11-MAR-2010 14:17:00	Soil	0.51	25	49.01961	>12
1202061960 MS (248520001)	11-MAR-2010 14:17:00	Soil	0.53	25	47.16981	>12
1202061962 MSD (248520001)	11-MAR-2010 14:17:00	Soil	0.5	25	50	>12
248520002	11-MAR-2010 14:17:00	Soil	0.52	25	48.07692	>12
1202061959 DUP (248520002)	11-MAR-2010 14:17:00	Soil	0.5	25	50	>12
1202061961 MS (248520002)	11-MAR-2010 14:17:00	Soil	0.52	25	48.07692	>12
1202061963 MSD (248520002)	11-MAR-2010 14:17:00	Soil	0.53	25	47.16981	>12
248520003	11-MAR-2010 14:17:00	Soil	0.58	25	43.10345	>12
248520004	11-MAR-2010 14:17:00	Soil	0.57	25	43.85965	>12
248520005	11-MAR-2010 14:17:00	Soil	0.57	25	43.85965	>12
248520006	11-MAR-2010 14:17:00	Soil	0.57	25	43.85965	>12
248520007	11-MAR-2010 14:17:00	Soil	0.56	25	44.64286	>12
248520008	11-MAR-2010 14:17:00	Soil	0.56	25	44.64286	>12
248520009	11-MAR-2010 14:17:00	Soil	0.52	25	48.07692	>12
248520010	11-MAR-2010 14:17:00	Soil	0.52	25	48.07692	>12
248520011	11-MAR-2010 14:17:00	Soil	0.54	25	46.2963	>12
248549001	11-MAR-2010 14:17:00	Soil	0.51	25	49.01961	>12
248549002	11-MAR-2010 14:17:00	Soil	0.56	25	44.64286	>12

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

# Prep Logbook

**Batch ID:** 961287.0  
**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	1202061964	Total Cyanide Solid LCS	URF1200957-01	.25	g
MS	1202061960	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MS	1202061961	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MSD	1202061962	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MSD	1202061963	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
248549003	11-MAR-2010 14:17:00	Soil	0.56	25	44.64286	>12
248549004	11-MAR-2010 14:17:00	Soil	0.58	25	43.10345	>12
248549005	11-MAR-2010 14:17:00	Soil	0.59	25	42.37288	>12
248549006	11-MAR-2010 14:17:00	Soil	0.59	25	42.37288	>12

## Comments:

Reagent/Solvent Lot ID	Description	Amount
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
WCN100310-07	150 ppb CN Distilled ICV Standard	.0375 mL

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	3/11/2010 16:18:39	OM_3-11-2010_16-17-08
150 ppb		1	axc2	3/11/2010 16:19:30	OM_3-11-2010_16-17-08
100 ppb		1	axc2	3/11/2010 16:20:23	OM_3-11-2010_16-17-08
50 ppb		1	axc2	3/11/2010 16:21:16	OM_3-11-2010_16-17-08
10 ppb		1	axc2	3/11/2010 16:22:09	OM_3-11-2010_16-17-08
CRDL 5.0 ppb		1	axc2	3/11/2010 16:23:03	OM_3-11-2010_16-17-08
ICAL-00		1	axc2	3/11/2010 16:23:57	OM_3-11-2010_16-17-08
ICV		1	axc2	3/11/2010 16:25:47	OM_3-11-2010_16-17-08
ICB		1	axc2	3/11/2010 16:27:38	OM_3-11-2010_16-17-08
CRDL		1	axc2	3/11/2010 16:29:27	OM_3-11-2010_16-17-08
1202061957	961288	1	axc2	3/11/2010 16:31:17	OM_3-11-2010_16-17-08
1202061964	961288	25	axc2	3/11/2010 16:32:10	OM_3-11-2010_16-17-08
248520001	961288	1	axc2	3/11/2010 16:33:03	OM_3-11-2010_16-17-08
1202061958	961288	1	axc2	3/11/2010 16:33:56	OM_3-11-2010_16-17-08
1202061960	961288	1	axc2	3/11/2010 16:34:49	OM_3-11-2010_16-17-08
1202061962*	961288	1	axc2	3/11/2010 16:35:42	OM_3-11-2010_16-17-08
248520002	961288	1	axc2	3/11/2010 16:36:34	OM_3-11-2010_16-17-08
1202061959	961288	1	axc2	3/11/2010 16:37:27	OM_3-11-2010_16-17-08
1202061961	961288	1	axc2	3/11/2010 16:38:19	OM_3-11-2010_16-17-08
1202061963	961288	1	axc2	3/11/2010 16:39:12	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010 16:40:04	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010 16:41:54	OM_3-11-2010_16-17-08
248520003	961288	1	axc2	3/11/2010 16:43:43	OM_3-11-2010_16-17-08
248520004	961288	1	axc2	3/11/2010 16:44:34	OM_3-11-2010_16-17-08
248520005	961288	1	axc2	3/11/2010 16:45:27	OM_3-11-2010_16-17-08
248520006	961288	1	axc2	3/11/2010 16:46:18	OM_3-11-2010_16-17-08
248520007	961288	1	axc2	3/11/2010 16:47:10	OM_3-11-2010_16-17-08
248520008	961288	1	axc2	3/11/2010 16:48:03	OM_3-11-2010_16-17-08
248520009	961288	1	axc2	3/11/2010 16:48:57	OM_3-11-2010_16-17-08
248520010	961288	1	axc2	3/11/2010 16:49:50	OM_3-11-2010_16-17-08
248520011	961288	1	axc2	3/11/2010 16:50:44	OM_3-11-2010_16-17-08
248549001	961288	1	axc2	3/11/2010 16:51:37	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010 16:52:29	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010 16:54:20	OM_3-11-2010_16-17-08
1202061962	961288	1	axc2	3/11/2010 16:56:08	OM_3-11-2010_16-17-08
248549002	961288	1	axc2	3/11/2010 16:57:01	OM_3-11-2010_16-17-08
248549003	961288	1	axc2	3/11/2010 16:57:55	OM_3-11-2010_16-17-08
248549004	961288	1	axc2	3/11/2010 16:58:47	OM_3-11-2010_16-17-08
248549005	961288	1	axc2	3/11/2010 16:59:40	OM_3-11-2010_16-17-08
248549006	961288	1	axc2	3/11/2010 17:00:32	OM_3-11-2010_16-17-08
1202061949	961286	1	axc2	3/11/2010 17:01:25	OM_3-11-2010_16-17-08
1202061956*	961286	25	axc2	3/11/2010 17:02:16	OM_3-11-2010_16-17-08
248517001	961286	1	axc2	3/11/2010 17:03:09	OM_3-11-2010_16-17-08
1202061950	961286	1	axc2	3/11/2010 17:04:01	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010 17:04:53	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010 17:06:44	OM_3-11-2010_16-17-08
1202061952	961286	1	axc2	3/11/2010 17:08:31	OM_3-11-2010_16-17-08
1202061954	961286	1	axc2	3/11/2010 17:09:25	OM_3-11-2010_16-17-08
248527002	961286	1	axc2	3/11/2010 17:10:19	OM_3-11-2010_16-17-08
1202061951	961286	1	axc2	3/11/2010 17:11:13	OM_3-11-2010_16-17-08
1202061953	961286	1	axc2	3/11/2010 17:12:06	OM_3-11-2010_16-17-08
1202061955	961286	1	axc2	3/11/2010 17:12:59	OM_3-11-2010_16-17-08
248527003	961286	1	axc2	3/11/2010 17:13:52	OM_3-11-2010_16-17-08
248527004	961286	1	axc2	3/11/2010 17:14:46	OM_3-11-2010_16-17-08
248527005	961286	1	axc2	3/11/2010 17:15:39	OM_3-11-2010_16-17-08
248527006	961286	1	axc2	3/11/2010 17:16:31	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010 17:17:24	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010 17:19:14	OM_3-11-2010_16-17-08

248527007	961286	1	axc2	3/11/2010	17:21:04	OM_3-11-2010_16-17-08
248527008	961286	1	axc2	3/11/2010	17:21:55	OM_3-11-2010_16-17-08
248527009	961286	1	axc2	3/11/2010	17:22:48	OM_3-11-2010_16-17-08
248527010	961286	1	axc2	3/11/2010	17:23:41	OM_3-11-2010_16-17-08
248527011	961286	1	axc2	3/11/2010	17:24:32	OM_3-11-2010_16-17-08
248527012	961286	1	axc2	3/11/2010	17:25:24	OM_3-11-2010_16-17-08
248527013	961286	1	axc2	3/11/2010	17:26:18	OM_3-11-2010_16-17-08
248527014	961286	1	axc2	3/11/2010	17:27:13	OM_3-11-2010_16-17-08
248527015	961286	1	axc2	3/11/2010	17:28:06	OM_3-11-2010_16-17-08
248527016	961286	1	axc2	3/11/2010	17:29:00	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010	17:29:52	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010	17:31:43	OM_3-11-2010_16-17-08
1202061933	961281	1	axc2	3/11/2010	17:33:32	OM_3-11-2010_16-17-08
1202061940	961281	25	axc2	3/11/2010	17:34:25	OM_3-11-2010_16-17-08
248511001	961281	1	axc2	3/11/2010	17:35:18	OM_3-11-2010_16-17-08
1202061934	961281	1	axc2	3/11/2010	17:36:11	OM_3-11-2010_16-17-08
1202061936	961281	1	axc2	3/11/2010	17:37:04	OM_3-11-2010_16-17-08
1202061938	961281	1	axc2	3/11/2010	17:37:57	OM_3-11-2010_16-17-08
248511002	961281	1	axc2	3/11/2010	17:38:50	OM_3-11-2010_16-17-08
1202061935	961281	1	axc2	3/11/2010	17:39:42	OM_3-11-2010_16-17-08
1202061937	961281	1	axc2	3/11/2010	17:40:35	OM_3-11-2010_16-17-08
1202061939	961281	1	axc2	3/11/2010	17:41:27	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010	17:42:19	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010	17:44:10	OM_3-11-2010_16-17-08
248511003	961281	1	axc2	3/11/2010	17:45:58	OM_3-11-2010_16-17-08
248511004	961281	1	axc2	3/11/2010	17:46:53	OM_3-11-2010_16-17-08
248511005	961281	1	axc2	3/11/2010	17:47:46	OM_3-11-2010_16-17-08
248511006	961281	1	axc2	3/11/2010	17:48:41	OM_3-11-2010_16-17-08
248511007	961281	1	axc2	3/11/2010	17:49:35	OM_3-11-2010_16-17-08
248511008	961281	1	axc2	3/11/2010	17:50:28	OM_3-11-2010_16-17-08
248511009	961281	1	axc2	3/11/2010	17:51:22	OM_3-11-2010_16-17-08
248511010	961281	1	axc2	3/11/2010	17:52:16	OM_3-11-2010_16-17-08
248511011	961281	1	axc2	3/11/2010	17:53:08	OM_3-11-2010_16-17-08
248511012	961281	1	axc2	3/11/2010	17:54:01	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010	17:54:54	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010	17:56:45	OM_3-11-2010_16-17-08
248511013	961281	1	axc2	3/11/2010	17:58:34	OM_3-11-2010_16-17-08
248511014	961281	1	axc2	3/11/2010	17:59:27	OM_3-11-2010_16-17-08
248511015	961281	1	axc2	3/11/2010	18:00:19	OM_3-11-2010_16-17-08
248511016	961281	1	axc2	3/11/2010	18:01:12	OM_3-11-2010_16-17-08
248511017	961281	1	axc2	3/11/2010	18:02:04	OM_3-11-2010_16-17-08
248511018	961281	1	axc2	3/11/2010	18:02:57	OM_3-11-2010_16-17-08
248511019	961281	1	axc2	3/11/2010	18:03:50	OM_3-11-2010_16-17-08
248511020	961281	1	axc2	3/11/2010	18:04:45	OM_3-11-2010_16-17-08
1202064160	962268	1	axc2	3/11/2010	18:05:39	OM_3-11-2010_16-17-08
1202064170	962268	1	axc2	3/11/2010	18:06:33	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010	18:07:26	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010	18:09:16	OM_3-11-2010_16-17-08
248638001	962268	1	axc2	3/11/2010	18:11:06	OM_3-11-2010_16-17-08
1202064161	962268	1	axc2	3/11/2010	18:11:59	OM_3-11-2010_16-17-08
1202064164	962268	1	axc2	3/11/2010	18:12:52	OM_3-11-2010_16-17-08
1202064167	962268	1	axc2	3/11/2010	18:13:46	OM_3-11-2010_16-17-08
248685001	962268	1	axc2	3/11/2010	18:14:39	OM_3-11-2010_16-17-08
248685002	962268	1	axc2	3/11/2010	18:15:32	OM_3-11-2010_16-17-08
248697001	962268	1	axc2	3/11/2010	18:16:25	OM_3-11-2010_16-17-08
248697002	962268	1	axc2	3/11/2010	18:17:18	OM_3-11-2010_16-17-08
248697003	962268	1	axc2	3/11/2010	18:18:10	OM_3-11-2010_16-17-08
248697004	962268	1	axc2	3/11/2010	18:19:03	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010	18:19:56	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010	18:21:46	OM_3-11-2010_16-17-08

248719001	962268	1	axc2	3/11/2010	18:23:35	OM_3-11-2010_16-17-08
248719002	962268	1	axc2	3/11/2010	18:24:30	OM_3-11-2010_16-17-08
248736002	962268	1	axc2	3/11/2010	18:25:24	OM_3-11-2010_16-17-08
248778001	962268	1	axc2	3/11/2010	18:26:18	OM_3-11-2010_16-17-08
248786001*	962268	1	axc2	3/11/2010	18:27:13	OM_3-11-2010_16-17-08
1202064163*	962268	1	axc2	3/11/2010	18:28:07	OM_3-11-2010_16-17-08
1202064166*	962268	1	axc2	3/11/2010	18:29:01	OM_3-11-2010_16-17-08
1202064169*	962268	1	axc2	3/11/2010	18:29:55	OM_3-11-2010_16-17-08
248799001	962268	1	axc2	3/11/2010	18:30:48	OM_3-11-2010_16-17-08
248805001	962268	1	axc2	3/11/2010	18:31:42	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010	18:32:34	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010	18:34:25	OM_3-11-2010_16-17-08
1202064162	962268	1	axc2	3/11/2010	18:36:14	OM_3-11-2010_16-17-08
1202064165	962268	1	axc2	3/11/2010	18:37:07	OM_3-11-2010_16-17-08
1202064168	962268	1	axc2	3/11/2010	18:38:00	OM_3-11-2010_16-17-08
248805003	962268	1	axc2	3/11/2010	18:38:53	OM_3-11-2010_16-17-08
248839001	962268	1	axc2	3/11/2010	18:39:46	OM_3-11-2010_16-17-08
248839002	962268	1	axc2	3/11/2010	18:40:39	OM_3-11-2010_16-17-08
248861001	962268	1	axc2	3/11/2010	18:41:34	OM_3-11-2010_16-17-08
248861002	962268	1	axc2	3/11/2010	18:42:29	OM_3-11-2010_16-17-08
248736002	962268	10	axc2	3/11/2010	18:43:23	OM_3-11-2010_16-17-08
248786001	962268	1	axc2	3/11/2010	18:44:18	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010	18:45:10	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010	18:47:01	OM_3-11-2010_16-17-08
1202064163	962268	1	axc2	3/11/2010	18:48:51	OM_3-11-2010_16-17-08
1202064166	962268	1	axc2	3/11/2010	18:49:45	OM_3-11-2010_16-17-08
1202064169	962268	1	axc2	3/11/2010	18:50:39	OM_3-11-2010_16-17-08
1202061956	961286	25	axc2	3/11/2010	18:51:31	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010	18:52:24	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010	18:54:14	OM_3-11-2010_16-17-08



Original Run Filename: OM\_3-11-2010\_16-17-08.OMN created 3/11/2010 16:17:08  
 Original Run Author's Signature: [axc2]  
 Current Run Filename: OM\_3-11-2010\_16-17-08.OMN last modified 3/11/2010 18:55:19  
 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 TCYANIDE		Detection Time	ADF	MDF	Description
			Conc. (ug/L)	Area (Vs)				
WCN100311-01	1	S1	200	10.2	3/11/2010@16:18:39			200 ppb
WCN100311-02	1	S2	150	7.64	3/11/2010@16:19:30			150 ppb
WCN100311-03	1	S3	100	5.21	3/11/2010@16:20:23			100 ppb
WCN100311-04	1	S4	50.0	2.71	3/11/2010@16:21:16			50 ppb
WCN100311-05	1	S5	10.0	0.668	3/11/2010@16:22:09			10 ppb
WCN100311-06	1	S6	5.00	0.372	3/11/2010@16:23:03			CRDL 5.0 ppb
WCN100311-08	1	S7	0.00	0.0704	3/11/2010@16:23:57			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99994 > 0.99500					
Message			Pass					
Action			Continue					
WCN100311-07	1	S8	146	7.51	3/11/2010@16:25:47			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			-2.4 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-2.4 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100311-08	1	S7	-0.946	0.0856	3/11/2010@16:27:38			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-0.946 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-0.946 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100311-06	1	S6	5.52	0.411	3/11/2010@16:29:27			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			5.52 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			5.52 > 2.50					
Message			Pass					
Action			None					
1202061957 961288 MB	1	1	-1.65	0.0501	3/11/2010@16:31:17			
1202061964 LCS	1	2	18.0	1.04	3/11/2010@16:32:10		25.00	
248520001	1	3	3.00	0.284	3/11/2010@16:33:03			
1202061958 DUP	1	4	3.06	0.287	3/11/2010@16:33:56			
1202061960 MS	1	5	38.6	2.08	3/11/2010@16:34:49			
1202061962 MSD	1	6	7.88	0.530	3/11/2010@16:35:42			
248520002	1	7	16.2	0.950	3/11/2010@16:36:34			
1202061959 DUP	1	8	23.4	1.31	3/11/2010@16:37:27			
1202061961 MS	1	9	59.4	3.12	3/11/2010@16:38:19			
1202061963 MSD	1	10	63.5	3.33	3/11/2010@16:39:12			
WCN100311-03	1	S3	105	5.42	3/11/2010@16:40:04			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					
WCN100311-08	1	S7	-1.15	0.0753	3/11/2010@16:41:54			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.15 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.15 > -5.00					
Message			CCB Passed					
Action			Continue					
248520003	1	11	6.30	0.451	3/11/2010@16:43:43			
248520004	1	12	23.1	1.29	3/11/2010@16:44:34			
248520005	1	13	6.76	0.473	3/11/2010@16:45:27			
248520006	1	14	2.15	0.241	3/11/2010@16:46:18			
248520007	1	15	16.8	0.981	3/11/2010@16:47:10			
248520008	1	16	7.48	0.510	3/11/2010@16:48:03			
248520009	1	17	6.44	0.457	3/11/2010@16:48:57			
248520010	1	18	5.87	0.429	3/11/2010@16:49:50			
248520011	1	19	9.72	0.623	3/11/2010@16:50:44			
248549001	1	20	-1.77	0.0439	3/11/2010@16:51:37			
WCN100311-03	1	S3	106	5.47	3/11/2010@16:52:29			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			6.1 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			6.1 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100311-08	1	S7	-1.18	0.0738	3/11/2010@16:54:20			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.18 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.18 > -5.00					
Message			CCB Passed					
Action			Continue					
1202061962 MSD	1	6	39.9	2.14	3/11/2010@16:56:08			
248549002	1	21	-1.77	0.0440	3/11/2010@16:57:01			
248549003	1	22	-1.69	0.0479	3/11/2010@16:57:55			
248549004	1	23	-1.69	0.0483	3/11/2010@16:58:47			
248549005	1	24	-1.77	0.0443	3/11/2010@16:59:40			
248549006	1	25	-1.23	0.0714	3/11/2010@17:00:32			
1202061949 961286 MB	1	26	-1.96	0.0344	3/11/2010@17:01:25			
1202061956 LCS	1	27	12.1	0.745	3/11/2010@17:02:16		25.00	
248517001	1	28	4.40	0.355	3/11/2010@17:03:09			
1202061950 DUP	1	29	6.52	0.462	3/11/2010@17:04:01			
WCN100311-03	1	S3	107	5.50	3/11/2010@17:04:53			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			6.5 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			6.5 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100311-08	1	S7	-1.02	0.0816	3/11/2010@17:06:44			CCB
Known Conc:			0.00					

DQM Test: > + Concentration Limit						
Result:		-1.02 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.02 > -5.00				
Message		CCB Passed				
Action		Continue				
1202061952	MS	1	30	51.0	2.70	3/11/2010@17:08:31
1202061954	MSD	1	31	87.1	4.52	3/11/2010@17:09:25
248527002		1	32	0.589	0.163	3/11/2010@17:10:19
1202061951	DUP	1	33	2.24	0.246	3/11/2010@17:11:13
1202061953	MS	1	34	77.9	4.06	3/11/2010@17:12:06
1202061955	MSD	1	35	86.4	4.48	3/11/2010@17:12:59
248527003		1	36	-0.0758	0.129	3/11/2010@17:13:52
248527004		1	37	-1.69	0.0479	3/11/2010@17:14:46
248527005		1	38	-2.12	0.0267	3/11/2010@17:15:39
248527006		1	39	-2.11	0.0268	3/11/2010@17:16:31
WCN100311-03		1	S3	106	5.46	3/11/2010@17:17:24
Known Conc:		100				CCV
DQM Test: > + Percent Relative Difference						
Result:		5.8 < 10.0				
Message		CCV Passed				
Action		Continue				
DQM Test: < - Percent Relative Difference						
Result:		5.8 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100311-08		1	S7	-1.03	0.0814	3/11/2010@17:19:14
Known Conc:		0.00				CCB
DQM Test: > + Concentration Limit						
Result:		-1.03 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.03 > -5.00				
Message		CCB Passed				
Action		Continue				
248527007		1	40	-0.0659	0.130	3/11/2010@17:21:04
248527008		1	41	0.415	0.154	3/11/2010@17:21:55
248527009		1	42	-2.53	0.00599	3/11/2010@17:22:48
248527010		1	43	-1.32	0.0670	3/11/2010@17:23:41
248527011		1	44	-1.51	0.0572	3/11/2010@17:24:32
248527012		1	45	-1.76	0.0445	3/11/2010@17:25:24
248527013		1	46	-0.984	0.0837	3/11/2010@17:26:18
248527014		1	47	-1.98	0.0337	3/11/2010@17:27:13
248527015		1	48	-1.88	0.0385	3/11/2010@17:28:06
248527016		1	49	-0.201	0.123	3/11/2010@17:29:00
WCN100311-03		1	S3	106	5.49	3/11/2010@17:29:52
Known Conc:		100				CCV
DQM Test: > + Percent Relative Difference						
Result:		6.3 < 10.0				
Message		CCV Passed				
Action		Continue				
DQM Test: < - Percent Relative Difference						
Result:		6.3 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100311-08		1	S7	-1.04	0.0811	3/11/2010@17:31:43
Known Conc:		0.00				CCB
DQM Test: > + Concentration Limit						
Result:		-1.04 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.04 > -5.00				
Message		CCB Passed				
Action		Continue				

1202061933	961281	MB	1	50	-2.14	0.0257	3/11/2010@17:33:32		
1202061940	LCS		1	51	25.5	1.42	3/11/2010@17:34:25	25.00	
248511001			1	52	9.89	0.631	3/11/2010@17:35:18		
1202061934	DUP		1	53	11.3	0.701	3/11/2010@17:36:11		
1202061936	MS		1	54	103	5.30	3/11/2010@17:37:04		
1202061938	MSD		1	55	118	6.07	3/11/2010@17:37:57		
248511002			1	56	1.23	0.195	3/11/2010@17:38:50		
1202061935	DUP		1	57	3.46	0.307	3/11/2010@17:39:42		
1202061937	MS		1	58	94.9	4.91	3/11/2010@17:40:35		
1202061939	MSD		1	59	88.8	4.61	3/11/2010@17:41:27		
WCN100311-03			1	S3	108	5.56	3/11/2010@17:42:19		CCV
Known Conc:					100				
DQM Test: > + Percent Relative Difference									
Result:					7.8 < 10.0				
Message					CCV Passed				
Action					Continue				
DQM Test: < - Percent Relative Difference									
Result:					7.8 < 10.0				
Message					CCV Passed				
Action					Continue				
WCN100311-08			1	S7	-3.25	-0.0302	3/11/2010@17:44:10		CCB
Known Conc:					0.00				
DQM Test: > + Concentration Limit									
Result:					-3.25 < 5.00				
Message					CCB Passed				
Action					Continue				
DQM Test: < - Concentration Limit									
Result:					-3.25 > -5.00				
Message					CCB Passed				
Action					Continue				
248511003			1	60	0.545	0.161	3/11/2010@17:45:58		
248511004			1	61	41.2	2.21	3/11/2010@17:46:53		
248511005			1	62	9.25	0.599	3/11/2010@17:47:46		
248511006			1	63	10.9	0.683	3/11/2010@17:48:41		
248511007			1	64	1.48	0.208	3/11/2010@17:49:35		
248511008			1	65	5.88	0.429	3/11/2010@17:50:28		
248511009			1	66	16.7	0.973	3/11/2010@17:51:22		
248511010			1	67	25.4	1.41	3/11/2010@17:52:16		
248511011			1	68	5.04	0.387	3/11/2010@17:53:08		
248511012			1	69	68.8	3.60	3/11/2010@17:54:01		
WCN100311-03			1	S3	108	5.56	3/11/2010@17:54:54		CCV
Known Conc:					100				
DQM Test: > + Percent Relative Difference									
Result:					7.7 < 10.0				
Message					CCV Passed				
Action					Continue				
DQM Test: < - Percent Relative Difference									
Result:					7.7 < 10.0				
Message					CCV Passed				
Action					Continue				
WCN100311-08			1	S7	-0.875	0.0892	3/11/2010@17:56:45		CCB
Known Conc:					0.00				
DQM Test: > + Concentration Limit									
Result:					-0.875 < 5.00				
Message					CCB Passed				
Action					Continue				
DQM Test: < - Concentration Limit									
Result:					-0.875 > -5.00				
Message					CCB Passed				
Action					Continue				
248511013			1	70	17.0	0.990	3/11/2010@17:58:34		
248511014			1	71	3.20	0.294	3/11/2010@17:59:27		
248511015			1	72	1.31	0.199	3/11/2010@18:00:19		
248511016			1	73	4.92	0.381	3/11/2010@18:01:12		
248511017			1	74	1.34	0.201	3/11/2010@18:02:04		
248511018			1	75	-0.129	0.127	3/11/2010@18:02:57		
248511019			1	76	-0.510	0.108	3/11/2010@18:03:50		
248511020			1	77	2.83	0.276	3/11/2010@18:04:45		

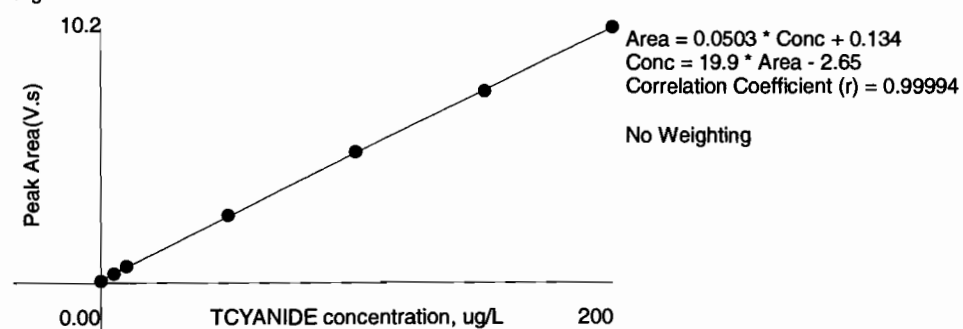
1202064160	962268	MB	1	78	-1.64	0.0508	3/11/2010@18:05:39			
1202064170	LCS		1	79	54.8	2.89	3/11/2010@18:06:33			
WCN100311-03			1	S3	107	5.53	3/11/2010@18:07:26			CCV
Known Conc:					100					
DQM Test: > + Percent Relative Difference										
Result:					7.1 < 10.0					
Message					CCV Passed					
Action					Continue					
DQM Test: < - Percent Relative Difference										
Result:					7.1 < 10.0					
Message					CCV Passed					
Action					Continue					
WCN100311-08			1	S7	-1.32	0.0667	3/11/2010@18:09:16			CCB
Known Conc:					0.00					
DQM Test: > + Concentration Limit										
Result:					-1.32 < 5.00					
Message					CCB Passed					
Action					Continue					
DQM Test: < - Concentration Limit										
Result:					-1.32 > -5.00					
Message					CCB Passed					
Action					Continue					
248638001			1	80	-2.08	0.0287	3/11/2010@18:11:06			
1202064161	DUP		1	81	-1.44	0.0607	3/11/2010@18:11:59			
1202064164	MS		1	82	103	5.32	3/11/2010@18:12:52			
1202064167	MSD		1	83	82.4	4.28	3/11/2010@18:13:46			
248685001			1	84	-1.85	0.0401	3/11/2010@18:14:39			
248685002			1	85	-1.89	0.0380	3/11/2010@18:15:32			
248697001			1	86	-1.97	0.0339	3/11/2010@18:16:25			
248697002			1	87	-2.87	-0.0112	3/11/2010@18:17:18			
248697003			1	88	-1.96	0.0344	3/11/2010@18:18:10			
248697004			1	89	-2.14	0.0255	3/11/2010@18:19:03			
WCN100311-03			1	S3	107	5.52	3/11/2010@18:19:56			CCV
Known Conc:					100					
DQM Test: > + Percent Relative Difference										
Result:					6.9 < 10.0					
Message					CCV Passed					
Action					Continue					
DQM Test: < - Percent Relative Difference										
Result:					6.9 < 10.0					
Message					CCV Passed					
Action					Continue					
WCN100311-08			1	S7	-1.35	0.0655	3/11/2010@18:21:46			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					
248719001			1	90	-1.29	0.0683	3/11/2010@18:23:35			
248719002			1	91	-1.02	0.0818	3/11/2010@18:24:30			
248736002			1	92	414	21.0	3/11/2010@18:25:24			
248778001			1	93	0.0656	0.137	3/11/2010@18:26:18			
248786001			1	94	1.35	0.201	3/11/2010@18:27:13			
1202064163	DUP		1	95	11.2	0.700	3/11/2010@18:28:07			
1202064166	MS		1	96	2.13	0.241	3/11/2010@18:29:01			
1202064169	MSD		1	97	1.76	0.222	3/11/2010@18:29:55			
248799001			1	98	-1.85	0.0403	3/11/2010@18:30:48			
248805001			1	99	-2.65	-1.59e-4	3/11/2010@18:31:42			
WCN100311-03			1	S3	107	5.53	3/11/2010@18:32:34			CCV
Known Conc:					100					
DQM Test: > + Percent Relative Difference										
Result:					7.2 < 10.0					
Message					CCV Passed					
Action					Continue					

DQM Test: < - Percent Relative Difference									
Result:		7.2 < 10.0							
Message		CCV Passed							
Action		Continue							
WCN100311-08	1	S7	-1.21	0.0725	3/11/2010@18:34:25			CCB	
Known Conc:		0.00							
DQM Test: > + Concentration Limit									
Result:		-1.21 < 5.00							
Message		CCB Passed							
Action		Continue							
DQM Test: < - Concentration Limit									
Result:		-1.21 > -5.00							
Message		CCB Passed							
Action		Continue							
1202064162  DUP	1	100	-2.10	0.0276	3/11/2010@18:36:14				
1202064165  MS	1	101	107	5.51	3/11/2010@18:37:07				
1202064168  MSD	1	102	106	5.49	3/11/2010@18:38:00				
248805003	1	103	-1.44	0.0608	3/11/2010@18:38:53				
248839001	1	104	-2.65	-1.99e-4	3/11/2010@18:39:46				
248839002	1	105	-1.74	0.0457	3/11/2010@18:40:39				
248861001	1	106	-2.18	0.0232	3/11/2010@18:41:34				
248861002	1	107	-2.91	-0.0132	3/11/2010@18:42:29				
248736002	1	92	75.6	3.94	3/11/2010@18:43:23			10.00	
248786001	1	94	-1.60	0.0526	3/11/2010@18:44:18				
WCN100311-03	1	S3	107	5.53	3/11/2010@18:45:10			CCV	
Known Conc:		100							
DQM Test: > + Percent Relative Difference									
Result:		7.2 < 10.0							
Message		CCV Passed							
Action		Continue							
DQM Test: < - Percent Relative Difference									
Result:		7.2 < 10.0							
Message		CCV Passed							
Action		Continue							
WCN100311-08	1	S7	-0.623	0.102	3/11/2010@18:47:01			CCB	
Known Conc:		0.00							
DQM Test: > + Concentration Limit									
Result:		-0.623 < 5.00							
Message		CCB Passed							
Action		Continue							
DQM Test: < - Concentration Limit									
Result:		-0.623 > -5.00							
Message		CCB Passed							
Action		Continue							
1202064163  DUP	1	95	-1.89	0.0383	3/11/2010@18:48:51				
1202064166  MS	1	96	93.1	4.82	3/11/2010@18:49:45				
1202064169  MSD	1	97	96.0	4.97	3/11/2010@18:50:39				
1202061956 961286 LCS	1	27	26.3	1.46	3/11/2010@18:51:31			25.00	
WCN100311-03	1	S3	108	5.58	3/11/2010@18:52:24			CCV	
Known Conc:		100							
DQM Test: > + Percent Relative Difference									
Result:		8.1 < 10.0							
Message		CCV Passed							
Action		Continue							
DQM Test: < - Percent Relative Difference									
Result:		8.1 < 10.0							
Message		CCV Passed							
Action		Continue							
WCN100311-08	1	S7	-1.15	0.0752	3/11/2010@18:54:14			CCB	
Known Conc:		0.00							
DQM Test: > + Concentration Limit									
Result:		-1.15 < 5.00							
Message		CCB Passed							
Action		Continue							
DQM Test: < - Concentration Limit									
Result:		-1.15 > -5.00							
Message		CCB Passed							
Action		Continue							

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

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	10.2	0.739	-0.0	3/11/2010	16:19:41
2	150	1	7.64	0.520	0.7	3/11/2010	16:20:33
3	100	1	5.21	0.356	-0.7	3/11/2010	16:21:26
4	50.0	1	2.71	0.184	-2.1	3/11/2010	16:22:19
5	10.0	1	0.668	0.0430	-4.8	3/11/2010	16:23:12
6	5.00	1	0.372	0.0248	3.4	3/11/2010	16:24:06
7	0.00	1	0.0704	0.00376		3/11/2010	16:25:00

Figure 1: TCYANIDE





# **Ion Chromatography**

# Prep Logbook

## Ion Chromatography (IC)

<b>Batch ID:</b> 968239.0	Verified by:	Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
<b>Analyst:</b> Greg Milton		LCS	1202078573	GEL-ANION-4C Spiking Solution	UICI00324SPK	.8	mL
<b>Method:</b> EPA 300.0 PREP		MS	1202078569	GEL-ANION-4C Spiking Solution	UICI00324SPK	.8	mL
<b>Lab SOP:</b> GL-GC-E-086 REV# 17		MS	1202078570	GEL-ANION-4C Spiking Solution	UICI00324SPK	.8	mL
<b>Instrument:</b> Sartorius Balance B-001		MSD	1202078571	GEL-ANION-4C Spiking Solution	UICI00324SPK	.8	mL
		MSD	1202078572	GEL-ANION-4C Spiking Solution	UICI00324SPK	.8	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check	1
1202078566 MB	24-MAR-2010 14:11:00	Soil	4	40	10		
1202078573 LCS	24-MAR-2010 14:11:00	Soil	4	40	10		
248515001	24-MAR-2010 14:11:00	Soil	4	40	10		
1202078567 DUP (248515001)	24-MAR-2010 14:11:00	Soil	4	40	10		
1202078569 MS (248515001)	24-MAR-2010 14:11:00	Soil	4	40	10		
1202078571 MSD (248515001)	24-MAR-2010 14:11:00	Soil	4	40	10		
248515002	24-MAR-2010 14:11:00	Soil	4	40	10		
248515003	24-MAR-2010 14:11:00	Soil	4	40	10		
248517001	24-MAR-2010 14:11:00	Soil	4	40	10		
248520001	24-MAR-2010 14:11:00	Soil	4	40	10		
248520002	24-MAR-2010 14:11:00	Soil	4	40	10		
248520003	24-MAR-2010 14:11:00	Soil	4	40	10		
248520004	24-MAR-2010 14:11:00	Soil	4	40	10		
248520005	24-MAR-2010 14:11:00	Soil	4	40	10		
248520006	24-MAR-2010 14:11:00	Soil	4	40	10		
248520007	24-MAR-2010 14:11:00	Soil	4	40	10		
248520008	24-MAR-2010 14:11:00	Soil	4	40	10		
248520009	24-MAR-2010 14:11:00	Soil	4	40	10		
248520010	24-MAR-2010 14:11:00	Soil	4	40	10		
248520011	24-MAR-2010 14:11:00	Soil	4	40	10		
1202078568 DUP (248520011)	24-MAR-2010 14:11:00	Soil	4	40	10		
1202078570 MS (248520011)	24-MAR-2010 14:11:00	Soil	4	40	10		
1202078572 MSD (248520011)	24-MAR-2010 14:11:00	Soil	4	40	10		

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

# Prep Logbook

**Batch ID:** 968239.0  
**Analyst:** Greg Milton  
**Method:** EPA 300.0 PREP  
**Lab SOP:** GL-GC-E-086 REV# 17  
**Instrument:** Sartorius Balance B-001

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202078573	GEL-ANION-4C Spiking Solution	UIC100324SPK	.8	mL
MS	1202078569	GEL-ANION-4C Spiking Solution	UIC100324SPK	.8	mL
MS	1202078570	GEL-ANION-4C Spiking Solution	UIC100324SPK	.8	mL
MSD	1202078571	GEL-ANION-4C Spiking Solution	UIC100324SPK	.8	mL
MSD	1202078572	GEL-ANION-4C Spiking Solution	UIC100324SPK	.8	mL

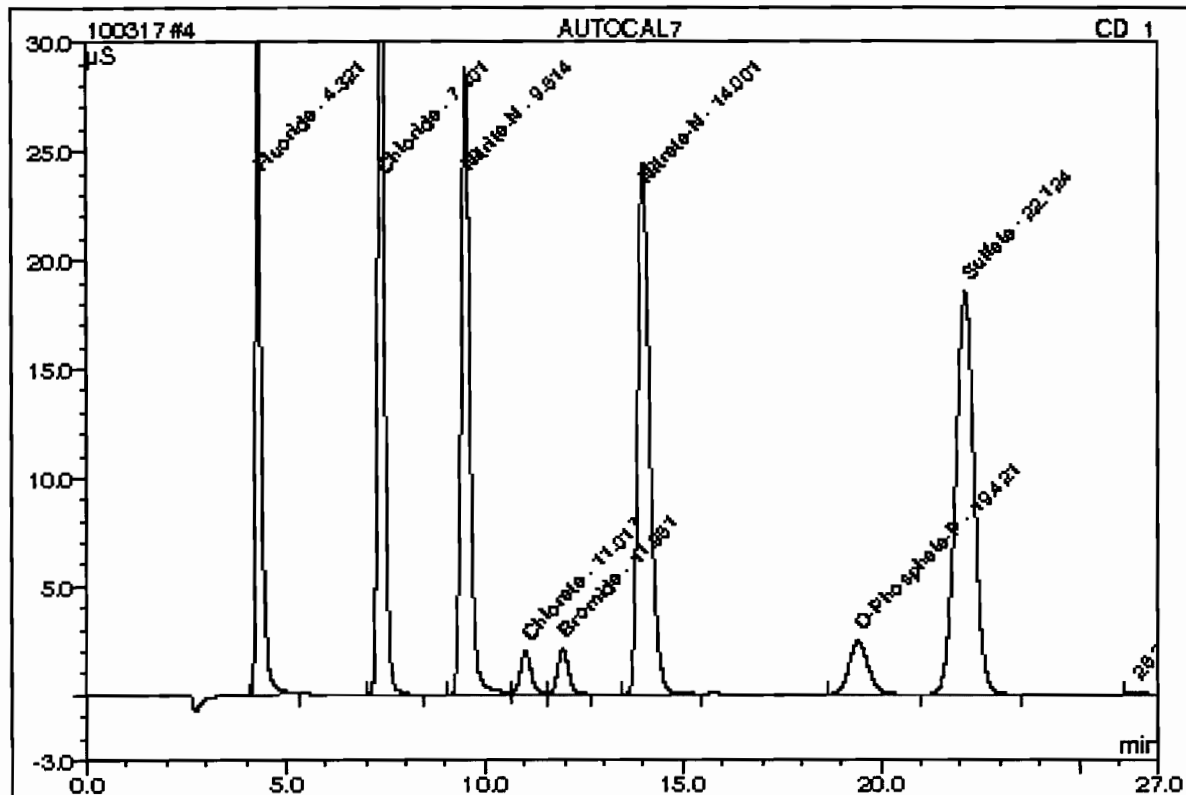
Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
248526001	24-MAR-2010 14:11:00	Soil	4	40	10	
Reagent/Solvent Lot ID	Description	Amount	Comments:			

This is runlog for Sequence 100325.seq for IC7

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
ICAL-07	03/17/10 09:15		1	100325	GXM3
ICAL-06	03/17/10 09:45		1	100325	GXM3
ICAL-05	03/17/10 10:15		1	100325	GXM3
ICAL-04	03/17/10 10:45		1	100325	GXM3
ICAL-03	03/17/10 11:15		1	100325	GXM3
ICAL-02	03/17/10 11:45		1	100325	GXM3
ICAL-01	03/17/10 13:14		1	100325	GXM3

**4 AUTOCAL7**

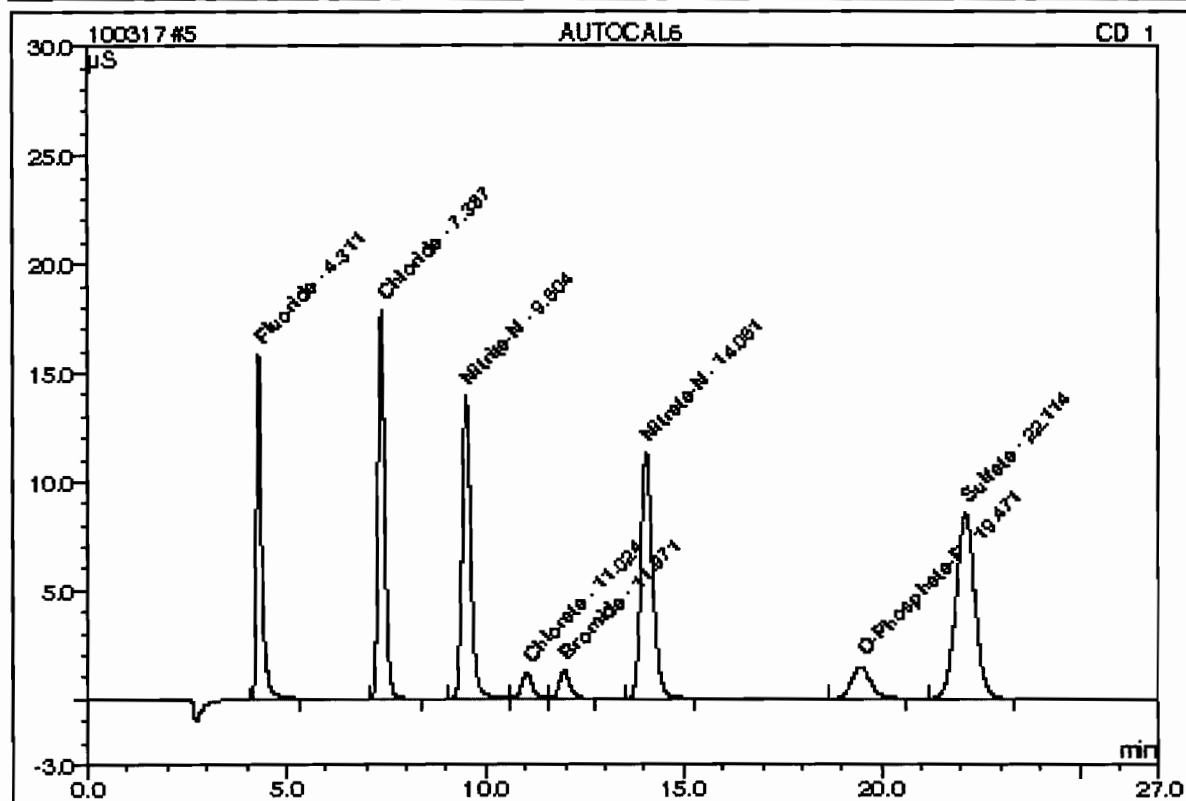
Sample Name:	AUTOCAL7	Injection Volume:	50.0
Vial Number:	4	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 9:15	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.32	Fluoride	10.0000	10.0024		5.01638	12.24
2	7.40	Chloride	20.0000	20.0097		7.37427	18.00
3	9.51	Nitrite-N	10.0000	10.0083		7.36725	17.98
4	11.02	Chlorate	5.0000	5.0490		0.60961	1.49
5	11.96	Bromide	5.0000	5.0206		0.64557	1.58
6	14.00	Nitrate-N	10.0000	10.0123		8.56118	20.89
7	19.42	O-Phosphate-P	5.0000	5.0000		1.32928	3.24
8	22.12	Sulfate	40.0000	40.0384		10.04798	24.52
Total:				105.1408	0.000	40.952	99.94

**5 AUTOCAL6**

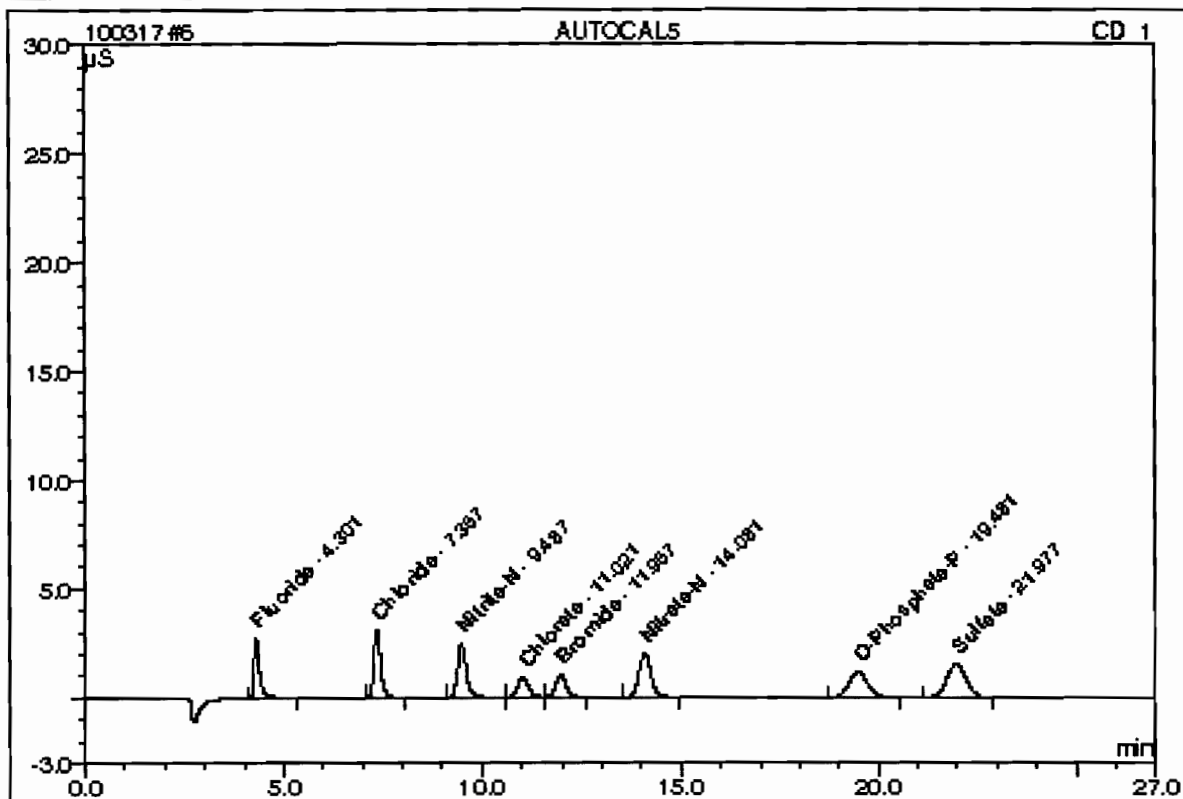
Sample Name:	AUTOCAL6	Injection Volume:	50.0
Vial Number:	5	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 9:45	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.31	Fluoride	5.0000	4.8820		2.42594	12.44
2	7.39	Chloride	10.0000	9.3500		3.36519	17.26
3	9.50	Nitrite-N	5.0000	4.8693		3.54551	18.19
4	11.02	Chlorate	3.0000	2.9878		0.36137	1.85
5	11.97	Bromide	3.0000	2.9986		0.36556	1.98
6	14.05	Nitrate-N	5.0000	4.7145		3.94401	20.23
7	19.47	O-Phosphate-P	3.0000	2.9536		0.77886	4.00
8	22.11	Sulfate	20.0000	19.0326		4.68679	24.05
Total:				51.7885	0.000	19.495	100.00

**6 AUTOCAL5**

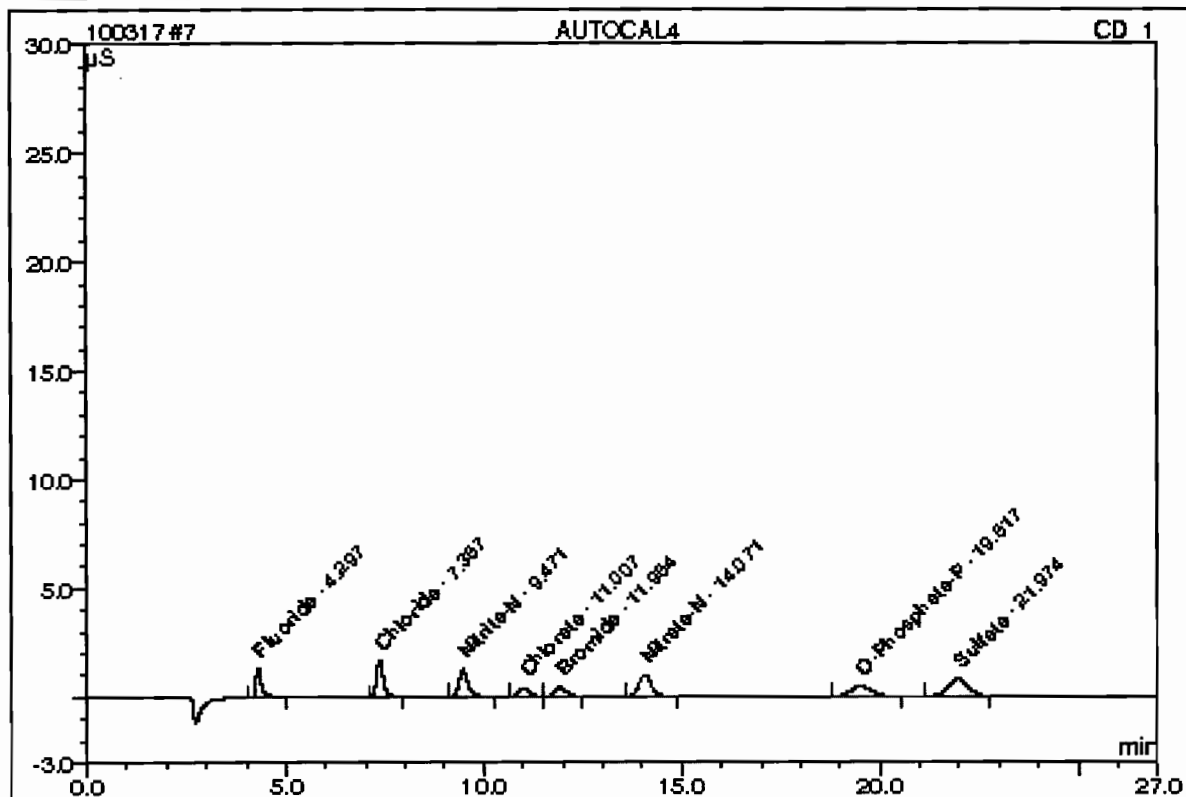
Sample Name:	AUTOCAL5	Injection Volume:	50.0
Vial Number:	6	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 10:15	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.30	Fluoride	1.0000	0.9378		0.44618	9.89
2	7.37	Chloride	2.0000	1.8432		0.61004	13.52
3	9.49	Nitrite-N	1.0000	0.9327		0.64234	14.24
4	11.02	Chlorate	2.5000	2.3781		0.28403	6.30
5	11.97	Bromide	2.5000	2.4513		0.31361	6.95
6	14.08	Nitrate-N	1.0000	0.9208		0.70455	15.62
7	19.48	O-Phosphate-P	2.5000	2.4823		0.65221	14.46
8	21.98	Sulfate	4.0000	3.7504		0.85753	19.01
Total:				15.6967	0.000	4.511	100.00

**7 AUTOCAL4**

Sample Name:	AUTOCAL4	Injection Volume:	50.0
Vial Number:	7	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 10:45	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056

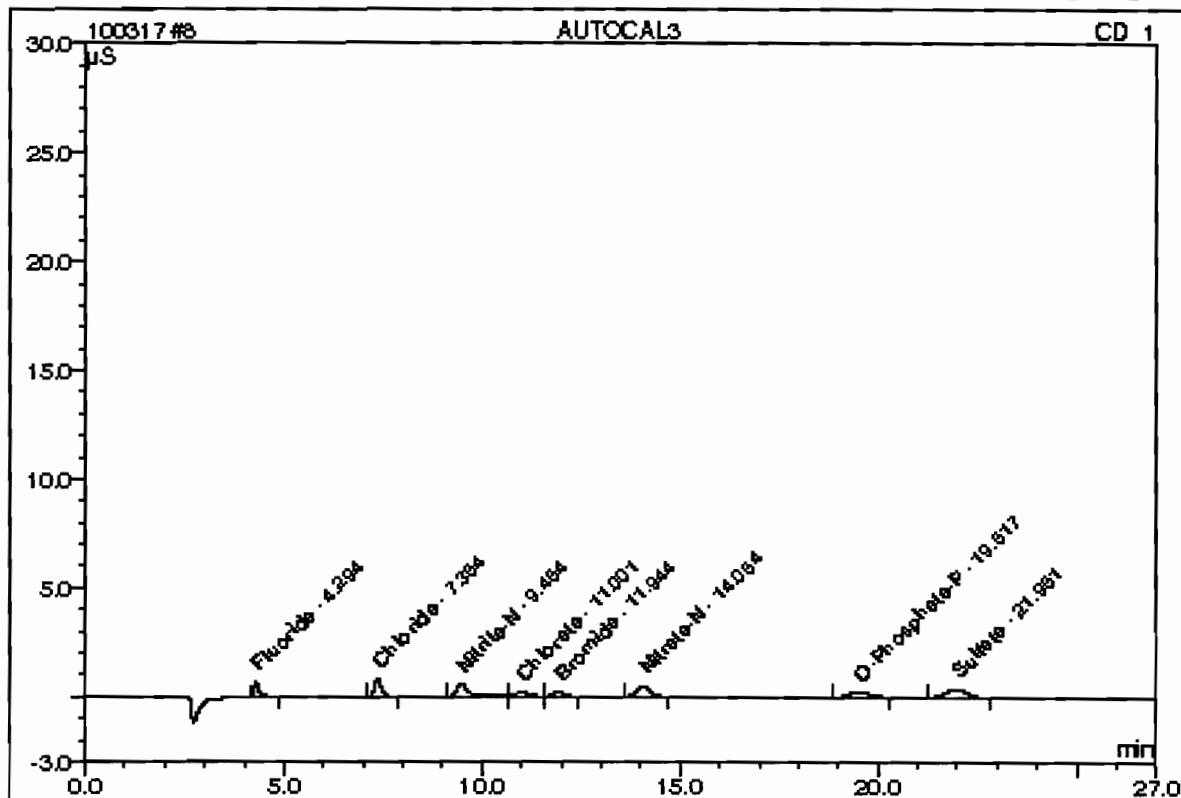


No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.30	Fluoride	0.5000	0.4925		0.21806	10.30
2	7.36	Chloride	1.0000	1.0806		0.32478	15.34
3	9.47	Nitrite-N	0.5000	0.4940		0.31326	14.80
4	11.01	Chlorate	1.0000	0.9498		0.10869	5.13
5	11.95	Bromide	1.0000	0.9722		0.12171	5.75
6	14.07	Nitrate-N	0.5000	0.5111		0.34644	16.36
7	19.52	O-Phosphate-P	1.0000	0.9993		0.25849	12.21
8	21.97	Sulfate	2.0000	2.0534		0.42575	20.11
Total:				7.5529	0.000	2.117	100.00



**8 AUTOCAL3**

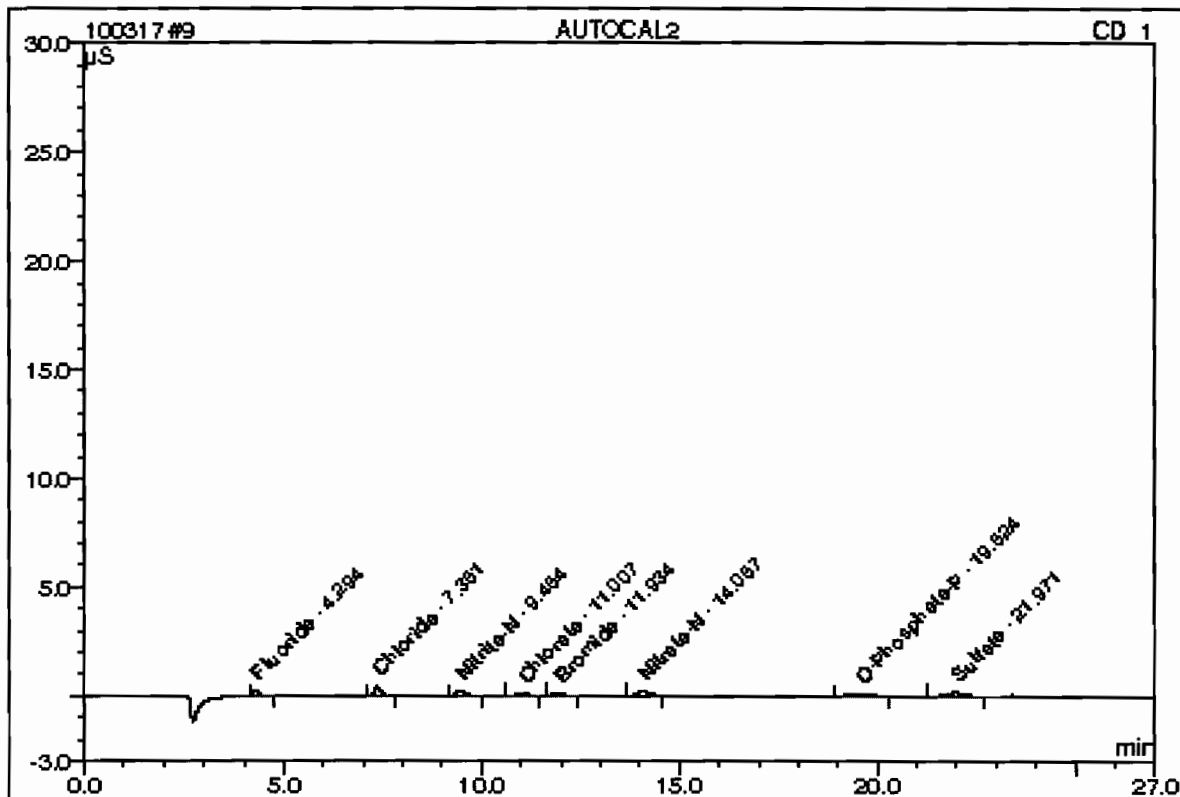
Sample Name:	AUTOCAL3	Injection Volume:	50.0
Vial Number:	8	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 11:15	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.29	Fluoride	0.2500	0.2772		0.10608	9.31
2	7.35	Chloride	0.5000	0.6486		0.16371	14.36
3	9.46	Nitrite-N	0.2500	0.3510		0.21960	19.26
4	11.00	Chlorate	0.5000	0.6270		0.07382	6.48
5	11.94	Bromide	0.5000	0.5232		0.06434	5.64
6	14.06	Nitrate-N	0.2500	0.3124		0.17066	14.97
7	19.52	O-Phosphate-P	0.5000	0.5128		0.13076	11.47
8	21.96	Sulfate	1.0000	1.2128		0.21096	18.51
Total:				4.4648	0.000	1.140	100.00

**9 AUTOCAL2**

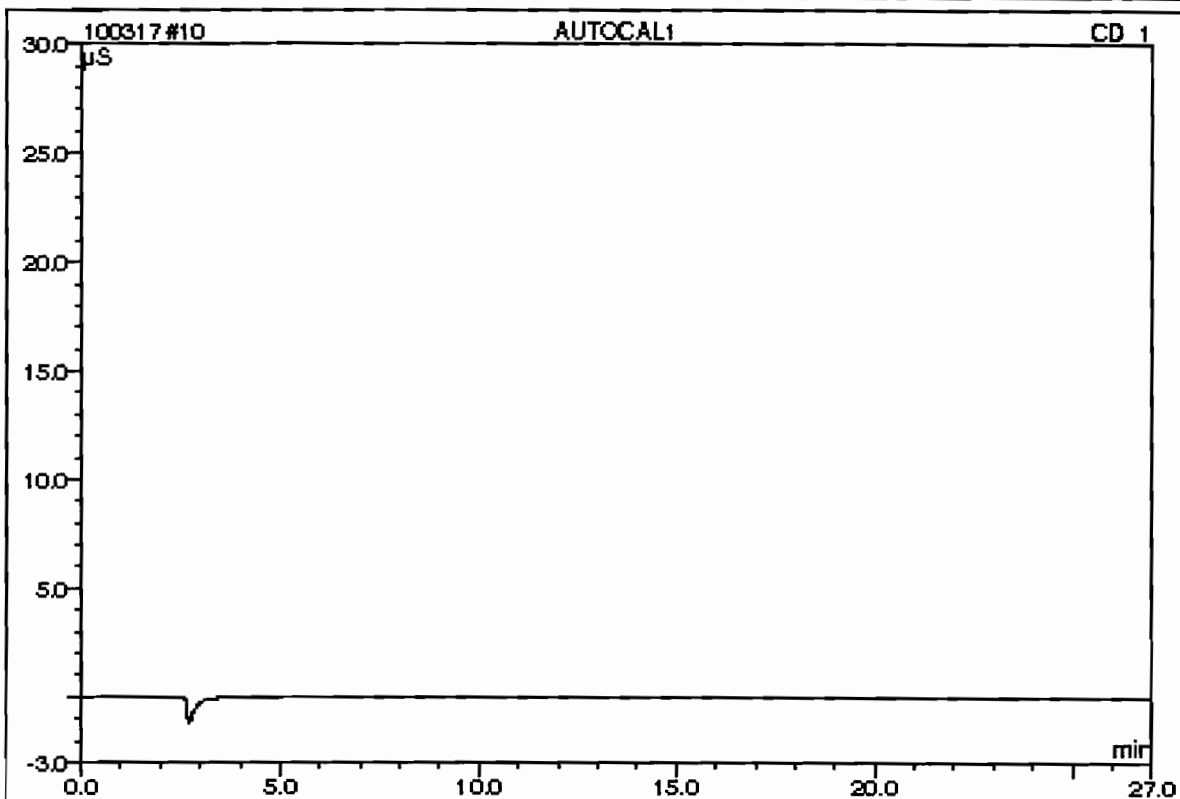
Sample Name:	AUTOCAL2	Injection Volume:	50.0
Vial Number:	9	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 11:45	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.29	Fluoride	0.1000	0.1392		0.04186	9.37
2	7.35	Chloride	0.2000	0.3749		0.07965	17.83
3	9.46	Nitrite-N	0.1000	0.1279		0.06080	13.61
4	11.01	Chlorate	0.2000	0.1981		0.02196	4.92
5	11.93	Bromide	0.2000	0.2157		0.02531	5.67
6	14.07	Nitrate-N	0.1000	0.1723		0.06679	14.95
7	19.52	O-Phosphate-P	0.2000	0.2351		0.06039	13.52
8	21.97	Sulfate	0.4000	0.6629		0.08998	20.14
Total:				2.1261	0.000	0.447	100.00

**10 AUTOCAL1**

Sample Name:	AUTOCAL1	Injection Volume:	50.0
Vial Number:	10	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 13:14	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



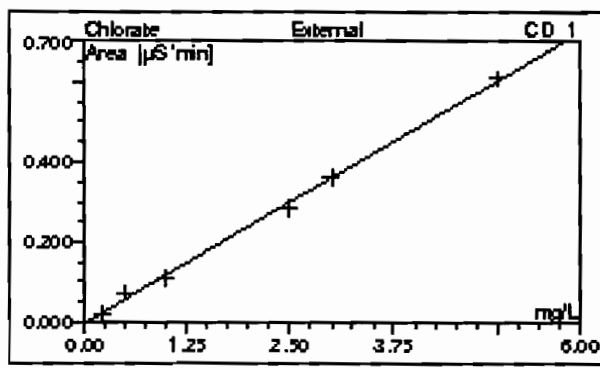
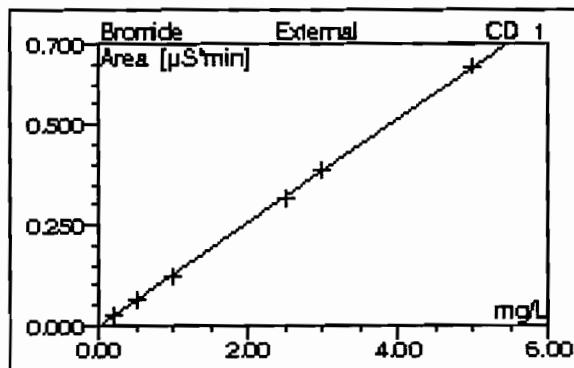
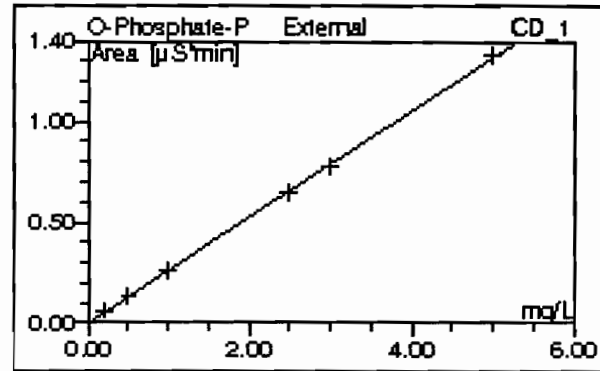
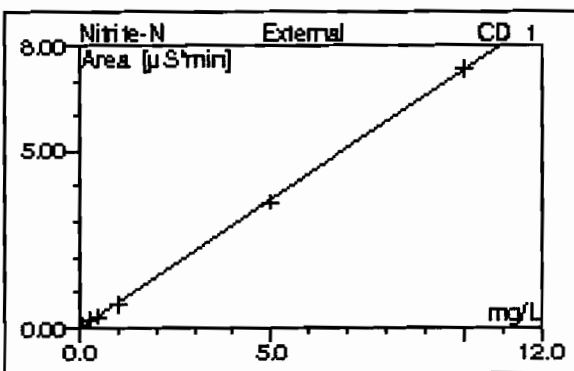
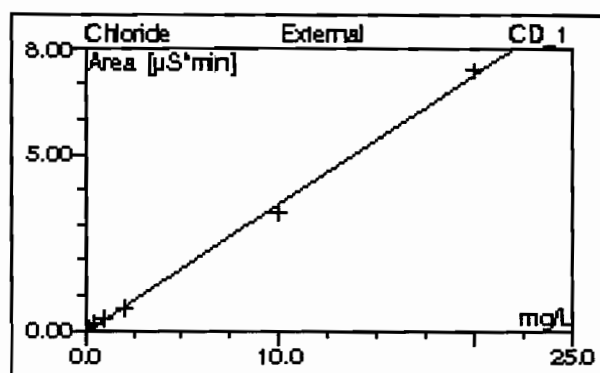
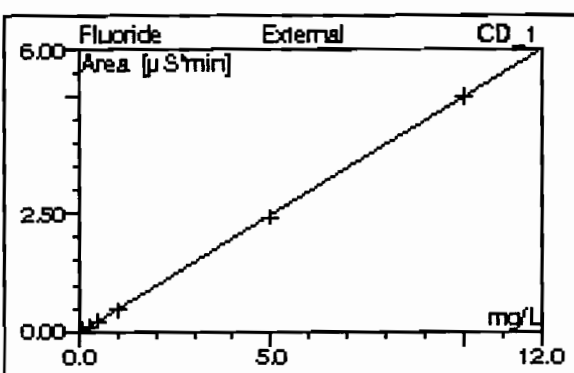
No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	0.0000	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.
n.a.	n.a.	Sulfate	0.0000	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

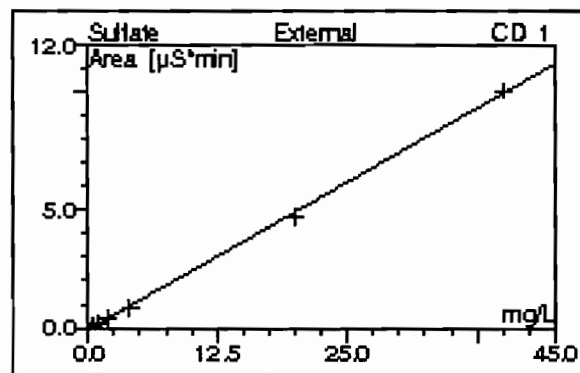
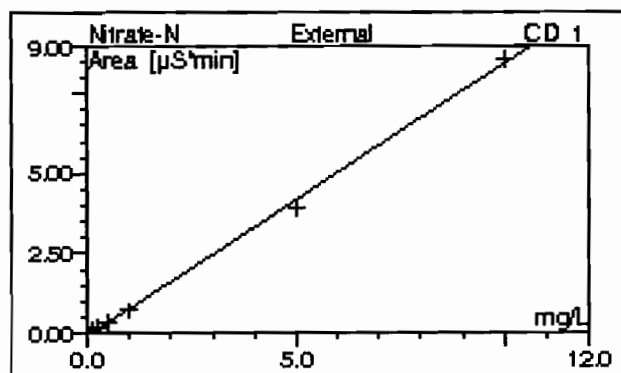
**10 AUTOCAL1**

Sample Name: AUTOCAL1  
Vial Number: 10  
Sample Type: standard  
Control Program: AS23  
Quantif. Method: 100317an  
Recording Time: 3/17/2010 13:14  
Run Time (min): 27.00

Injection Volume: 50.0  
Channel: CD\_1  
Dilution Factor: 1.0000  
Sample Weight: 1.0000  
Sample Amount: 1.0000  
Analyst: GXM3

Column: AS23-002714;GLGC086;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	0LOff	99.9751	-0.0280	0.5015	0.0000
n.a.	n.a.	Chloride	0LOff	99.8150	-0.0574	0.3656	0.0000
n.a.	n.a.	Nitrite-N	0LOff	99.9510	-0.0332	0.7348	0.0000
n.a.	n.a.	Chlorate	0LOff	99.7338	-0.0020	0.1208	0.0000
n.a.	n.a.	Bromide	0LOff	99.9700	-0.0025	0.1290	0.0000
n.a.	n.a.	Nitrate-N	0LOff	99.8613	-0.0800	0.8518	0.0000
n.a.	n.a.	O-Phosphate-P	0LOff	99.9667	-0.0017	0.2641	0.0000
n.a.	n.a.	Sulfate	0LOff	99.8983	-0.0758	0.2500	0.0000
Average:				99.8964	-0.0351	0.4022	0.0000

This is runlog for Sequence 100317.seq for IC7

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
BLK	03/17/10 08:45		1	100317	GXM3
ICAL-07	03/17/10 09:15		1	100317	GXM3
ICAL-06	03/17/10 09:45		1	100317	GXM3
ICAL-05	03/17/10 10:15		1	100317	GXM3
ICAL-04	03/17/10 10:45		1	100317	GXM3
ICAL-03	03/17/10 11:15		1	100317	GXM3
ICAL-02	03/17/10 11:45		1	100317	GXM3
ICAL-01	03/17/10 13:14		1	100317	GXM3
ICV	03/17/10 13:43		1	100317	GXM3
ICB	03/17/10 14:12		1	100317	GXM3
1202066399	03/17/10 14:42	963224	1	100317	GXM3
1202066402	03/17/10 15:11	963224	1	100317	GXM3
247261004	03/17/10 15:41	963224	1	100317	GXM3
1202066400	03/17/10 16:11	963224	1	100317	GXM3
1202066401	03/17/10 16:41	963224	1	100317	GXM3
247431002	03/17/10 17:10	963224	1	100317	GXM3
247817001	03/17/10 17:40	963224	1	100317	GXM3
247829001	03/17/10 18:10	963224	1	100317	GXM3
248024002	03/17/10 18:40	963224	1	100317	GXM3
248024004	03/17/10 19:10	963224	1	100317	GXM3
CVH	03/17/10 19:40		1	100317	GXM3
CCB	03/17/10 20:10		1	100317	GXM3
1202063619	03/17/10 20:39	962082	1	100317	GXM3
1202063626	03/17/10 21:09	962082	1	100317	GXM3
248666001	03/17/10 21:39	962082	1	100317	GXM3
1202063620	03/17/10 22:09	962082	1	100317	GXM3
1202063622	03/17/10 22:39	962082	1	100317	GXM3
1202063624	03/17/10 23:09	962082	1	100317	GXM3

248666002

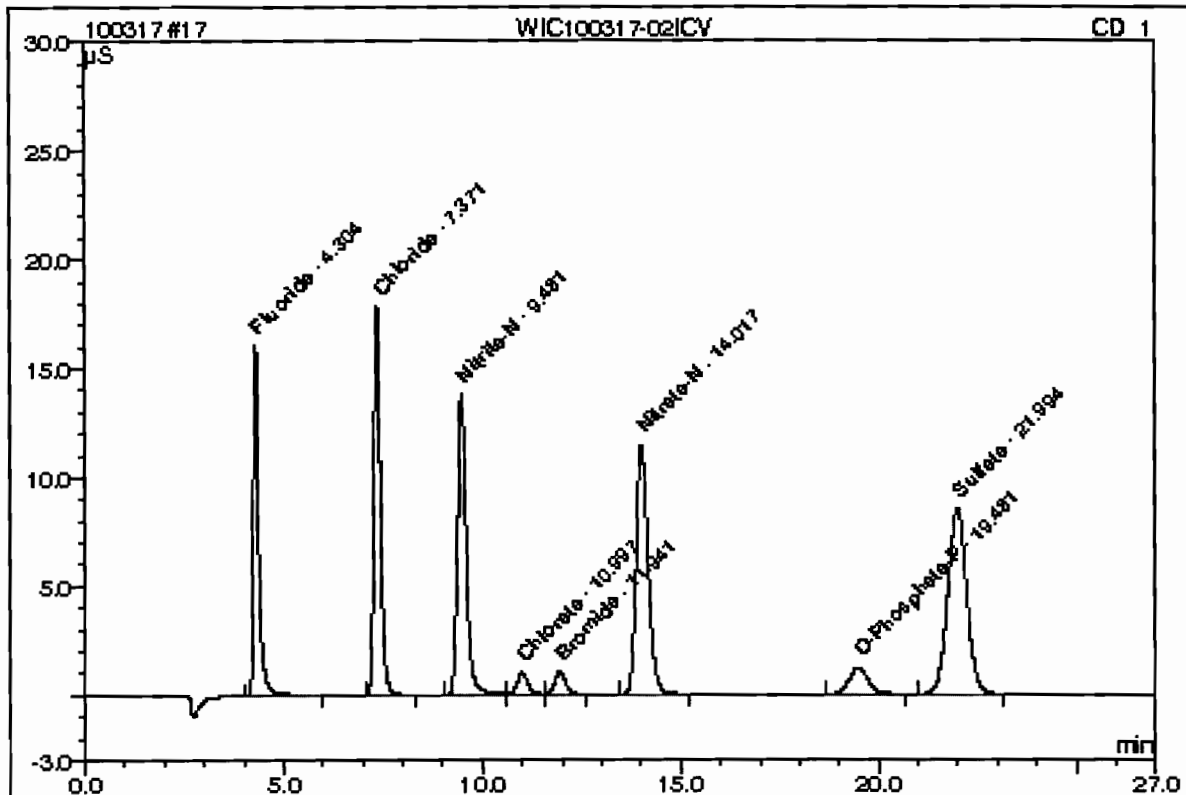
03/17/10 23:39 962082 1

100317

GXM3

**17 WIC100317-02ICV**

Sample Name:	WIC100317-02ICV	Injection Volume:	50.0
Vial Number:	11	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 13:43	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056

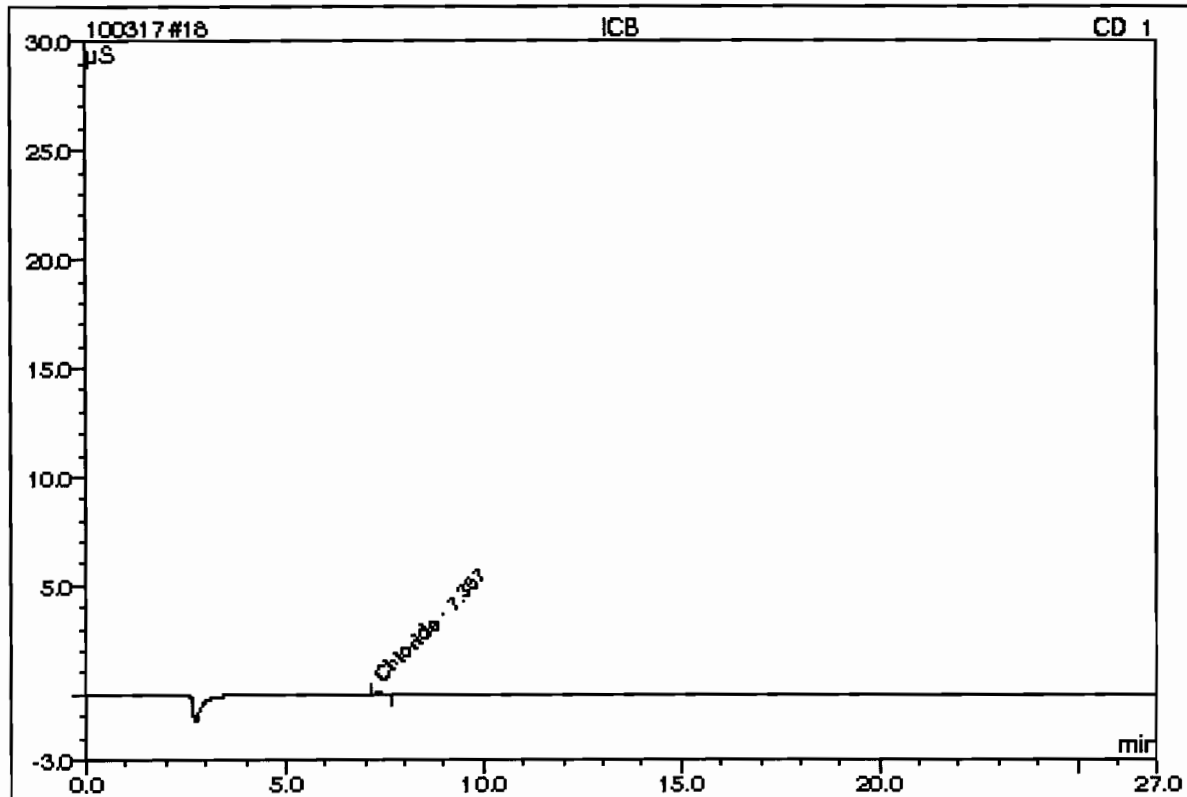


No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area $\mu\text{S} \cdot \text{min}$	Rel. Area %
1	4.30	Fluoride	n.a.	4.9617		2.46032	12.79
2	7.37	Chloride	n.a.	9.3464		3.35930	17.46
3	9.48	Nitrite-N	n.a.	4.8136		3.50372	18.21
4	11.00	Chlorate	n.a.	2.4909		0.29883	1.55
5	11.94	Bromide	n.a.	2.4926		0.31900	1.66
6	14.02	Nitrate-N	n.a.	4.7581		3.97314	20.65
7	19.48	O-Phosphate-P	n.a.	2.5072		0.66041	3.43
8	21.99	Sulfate	n.a.	18.9605		4.66474	24.25
Total:				50.3309	0.000	19.239	100.00



**18 ICB**

Sample Name:	ICB	Injection Volume:	50.0
Vial Number:	12	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 14:12	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; 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.
1	7.36	Chloride	n.a.	0.1862		0.01068	100.00
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:				0.1862	0.000	0.011	100.00

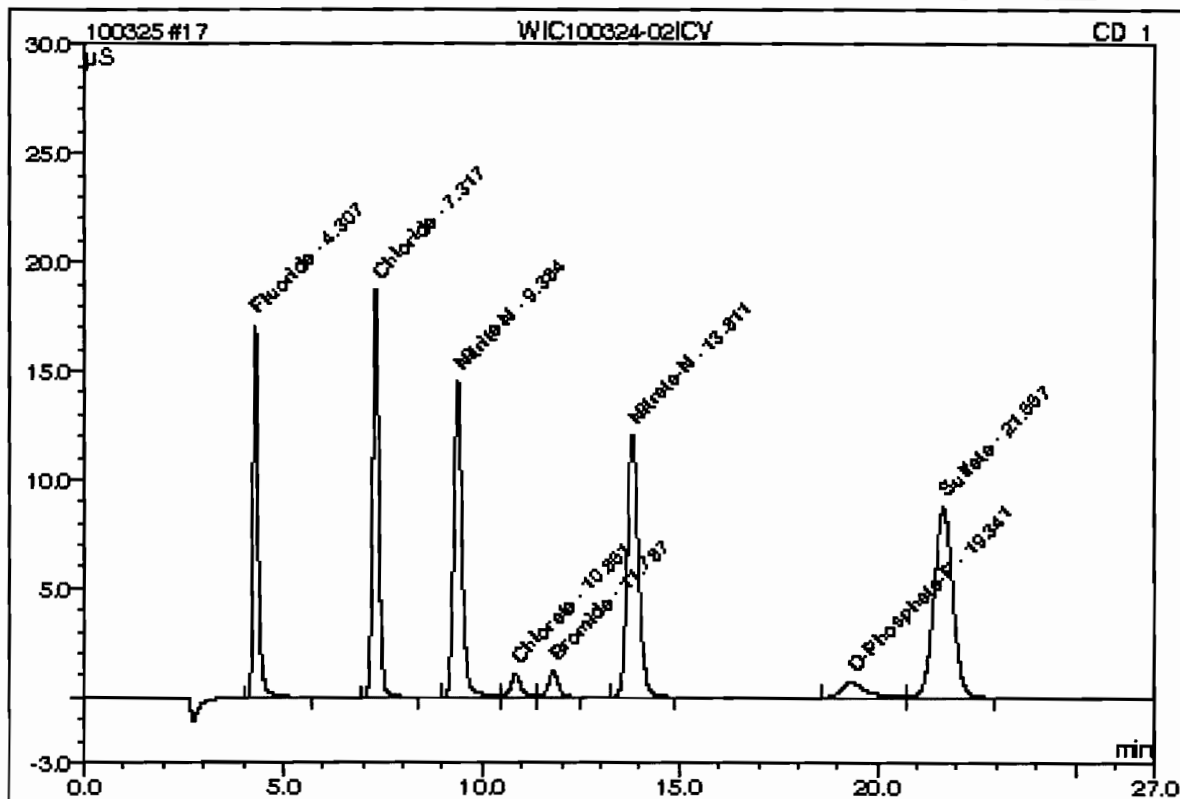
This is runlog for Sequence 100325.seq for IC7

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
BLK	03/25/10 02:56		1	100325	GXM3
BLK	03/25/10 03:26		1	100325	GXM3
BLK	03/25/10 03:56		1	100325	GXM3
ICV	03/25/10 04:26		1	100325	GXM3
ICB	03/25/10 04:55		1	100325	GXM3
1202078566	03/25/10 05:25	968241	1	100325	GXM3
1202078573	03/25/10 05:55	968241	1	100325	GXM3
248515001	03/25/10 06:25	968241	1	100325	GXM3
1202078567	03/25/10 06:55	968241	1	100325	GXM3
1202078569	03/25/10 07:25	968241	1	100325	GXM3
1202078571	03/25/10 07:55	968241	1	100325	GXM3
248515002	03/25/10 08:25	968241	1	100325	GXM3
248515003	03/25/10 08:55	968241	1	100325	GXM3
248517001	03/25/10 09:25	968241	1	100325	GXM3
248520001	03/25/10 09:55	968241	1	100325	GXM3
CVH	03/25/10 10:24		1	100325	GXM3
CCB	03/25/10 10:54		1	100325	GXM3
248520002	03/25/10 11:24	968241	1	100325	GXM3
248520003	03/25/10 11:54	968241	1	100325	GXM3
248520004	03/25/10 12:24	968241	1	100325	GXM3
248520005	03/25/10 12:54	968241	1	100325	GXM3
248520006	03/25/10 13:24	968241	1	100325	GXM3
248520007	03/25/10 13:54	968241	1	100325	GXM3
248520008	03/25/10 14:24	968241	1	100325	GXM3
248520009	03/25/10 14:54	968241	1	100325	GXM3
248520010	03/25/10 15:23	968241	1	100325	GXM3
CCV	03/25/10 15:53		1	100325	GXM3
CCB	03/25/10 16:23		1	100325	GXM3

248520011	03/25/10 16:52 968241 1	100325	GXM3
1202078568	03/25/10 17:22 968241 1	100325	GXM3
1202078570	03/25/10 17:51 968241 1	100325	GXM3
1202078572	03/25/10 18:21 968241 1	100325	GXM3
248526001	03/25/10 18:51 968241 1	100325	GXM3
CVH	03/25/10 19:21 1	100325	GXM3
CCB	03/25/10 19:51 1	100325	GXM3
1202074951	03/25/10 20:21 966831 1000	100325	GXM3
248103002	03/25/10 20:51 967295 100	100325	GXM3
248103002	03/25/10 21:21 967295 10	100325	GXM3
248686003	03/25/10 21:51 967295 10	100325	GXM3
1202076093	03/25/10 22:21 967295 10	100325	GXM3
1202076094	03/25/10 22:50 967295 10	100325	GXM3
CVH	03/25/10 23:20 1	100325	GXM3
CCB	03/25/10 23:50 1	100325	GXM3

**17 WIC100324-02ICV**

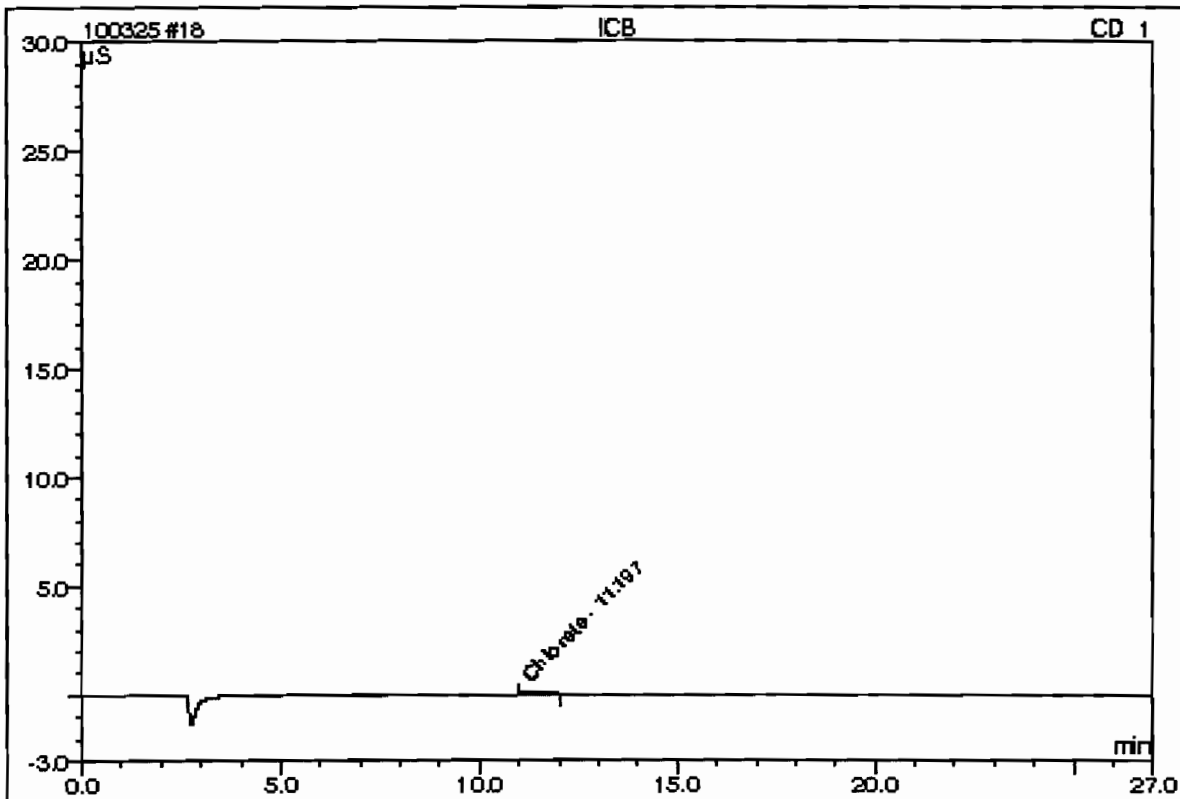
Sample Name:	WIC100324-02ICV	Injection Volume:	50.0
Vial Number:	29	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 4:26	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel.Area %
1	4.31	Fluoride	n.a.	5.0123		2.48570	12.87
2	7.32	Chloride	n.a.	9.4472		3.39615	17.58
3	9.38	Nitrite-N	n.a.	4.8776		3.55080	18.38
4	10.85	Chlorate	n.a.	2.5334		0.30397	1.57
5	11.79	Bromide	n.a.	2.5244		0.32311	1.67
6	13.81	Nitrate-N	n.a.	4.8179		4.02413	20.83
7	19.34	O-Phosphate-P	n.a.	1.8189		0.47866	2.48
8	21.67	Sulfate	n.a.	19.3292		4.75692	24.62
Total:				50.3611	0.000	19.319	100.00

**18 ICB**

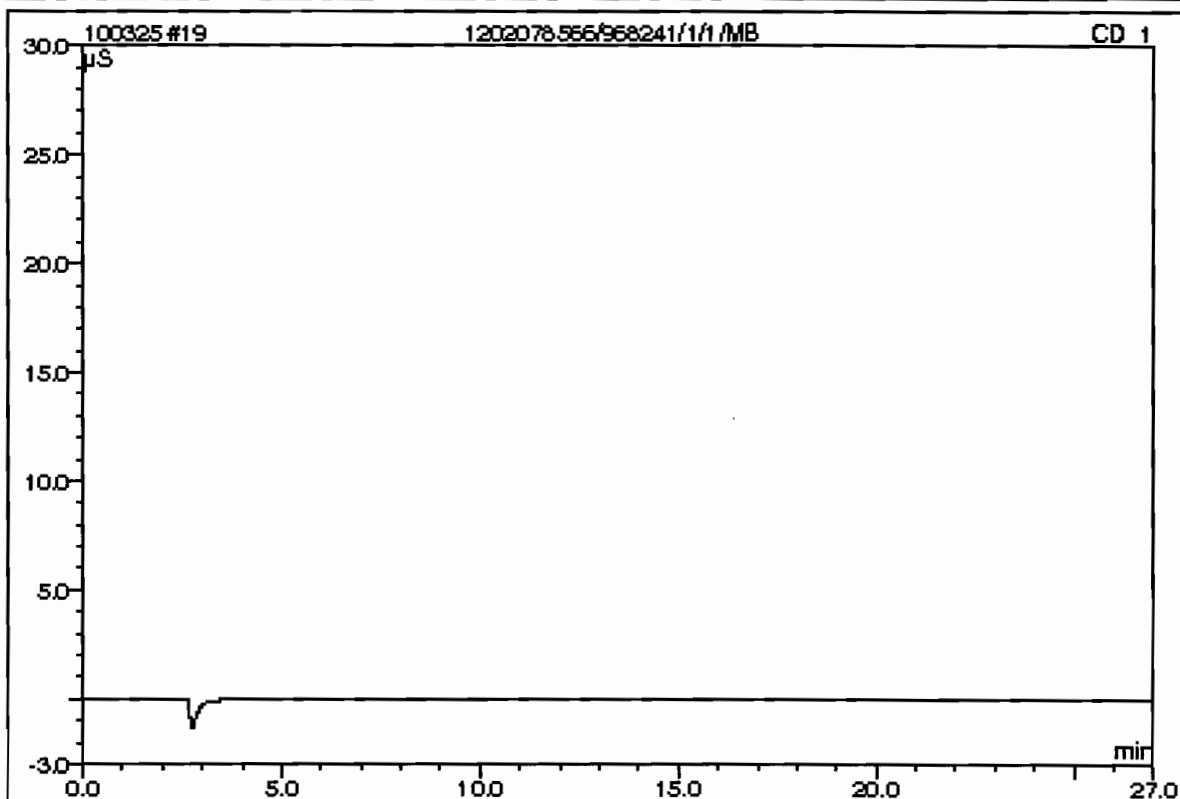
Sample Name:	ICB	Injection Volume:	50.0
Vial Number:	30	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 4:55	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



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.
1	11.20	Chlorate	n.a.	0.3469		0.03993	100.00
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:				0.3469	0.000	0.040	100.00

**19 1202078566/968241/1/1/MB**

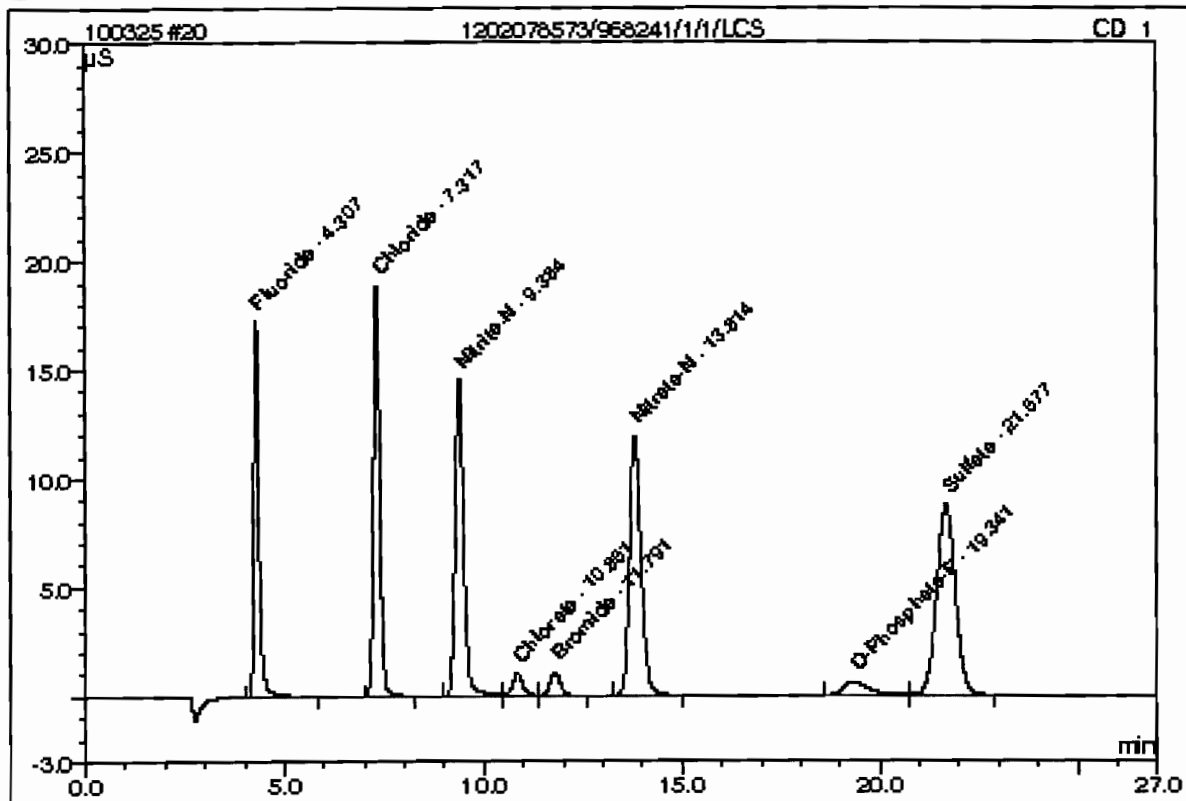
Sample Name:	1202078566/968241/1/1/MB	Injection Volume:	50.0
Vial Number:	31	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 5:25	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; 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.
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 1202078573/968241/1/1/LCS**

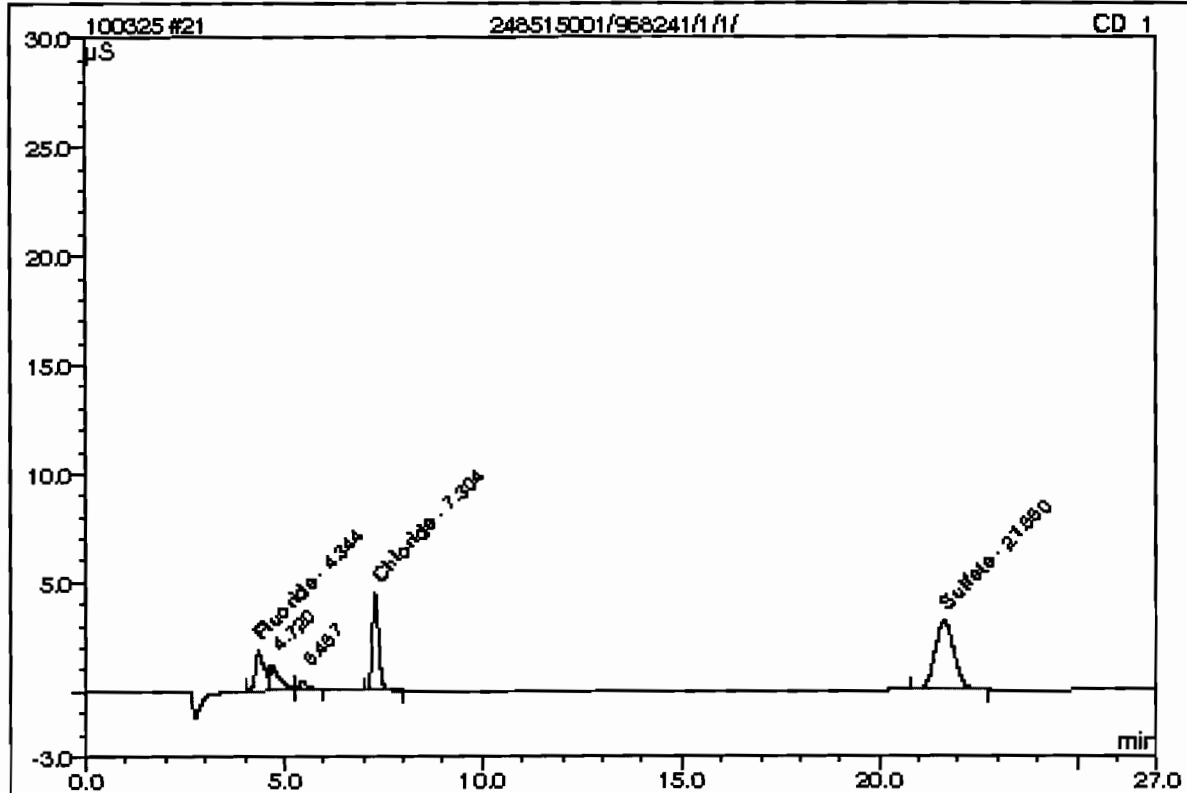
Sample Name:	1202078573/968241/1/1/LCS	Injection Volume:	50.0
Vial Number:	32	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 5:55	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.31	Fluoride	n.a.	5.0670		2.51315	12.98
2	7.32	Chloride	n.a.	9.5311		3.42679	17.70
3	9.38	Nitrite-N	n.a.	4.8857		3.55670	18.37
4	10.85	Chlorate	n.a.	2.5581		0.30694	1.59
5	11.79	Bromide	n.a.	2.5283		0.32361	1.67
6	13.81	Nitrate-N	n.a.	4.8112		4.01840	20.75
7	19.34	O-Phosphate-P	n.a.	1.6945		0.44580	2.30
8	21.68	Sulfate	n.a.	19.3822		4.77017	24.84
Total:				50.4580	0.000	19.362	100.00

**21 248515001/968241/1/1/**

Sample Name:	248515001/968241/1/1/	Injection Volume:	50.0
Vial Number:	33	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 6:25	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86;300;9056

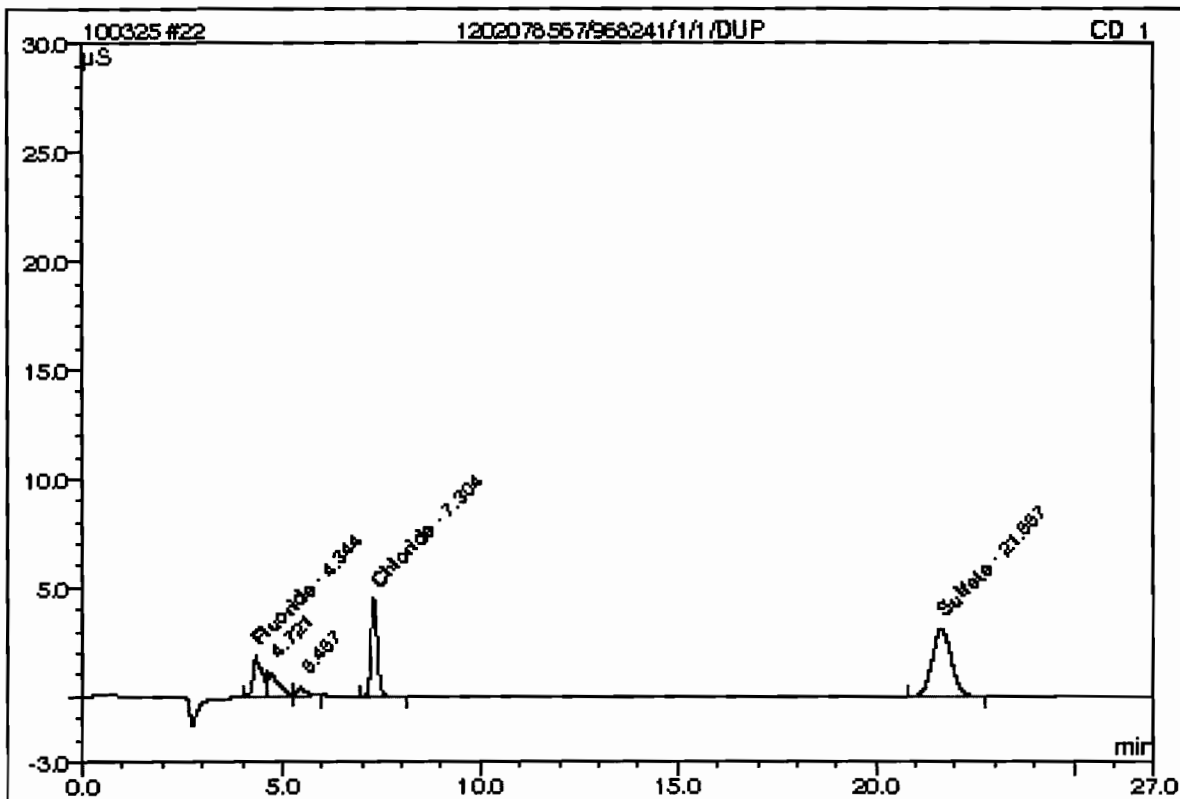


No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.34	Fluoride	n.a.	0.9918		0.48940	13.43
4	7.30	Chloride	n.a.	2.4542		0.83977	24.03
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
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.
5	21.66	Sulfate	n.a.	7.3089		1.75161	50.13
Total:				10.7549	0.000	3.081	87.60



**22 1202078567/968241/1/1/DUP**

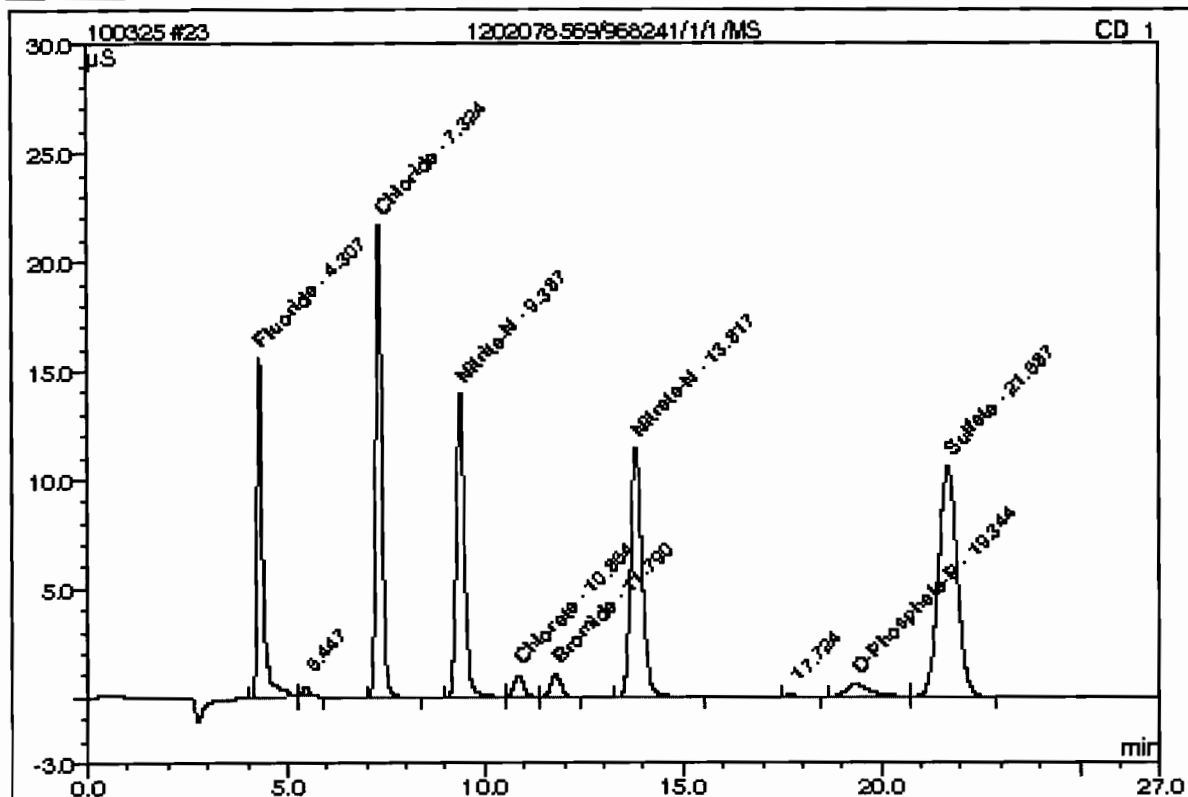
Sample Name:	1202078567/968241/1/1/DUP	Injection Volume:	50.0
Vial Number:	34	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 6:55	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; 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.	0.9879		0.46744	13.40
4	7.30	Chloride	n.a.	2.4512		0.63866	24.05
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.
5	21.66	Sulfate	n.a.	7.3022		1.74992	50.18
Total:				10.7412	0.000	3.056	87.63

**23 1202078569/968241/1/1/MS**

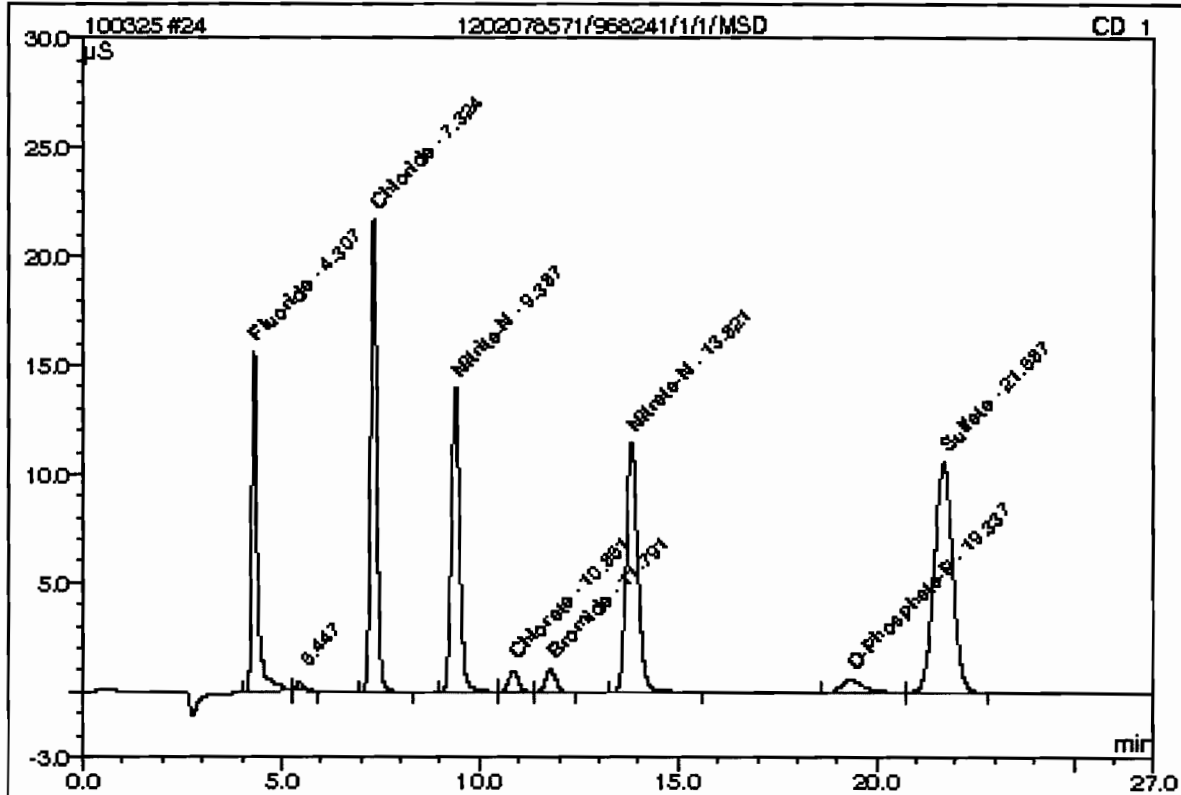
Sample Name:	1202078569/968241/1/1/MS	Injection Volume:	50.0
Vial Number:	35	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 7:25	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.31	Fluoride	n.a.	5.1174		2.53841	12.31
3	7.32	Chloride	n.a.	10.9052		3.92910	19.05
4	9.39	Nitrite-N	n.a.	4.7204		3.43530	16.66
5	10.85	Chlorate	n.a.	2.4831		0.29788	1.44
6	11.79	Bromide	n.a.	2.4480		0.31326	1.52
7	13.82	Nitrate-N	n.a.	4.6876		3.91309	18.98
9	19.34	O-Phosphate-P	n.a.	1.4447		0.37983	1.84
10	21.69	Sulfate	n.a.	23.1220		5.70520	27.67
Total:				54.9284	0.000	20.512	99.47

**24 1202078571/968241/1/1/MSD**

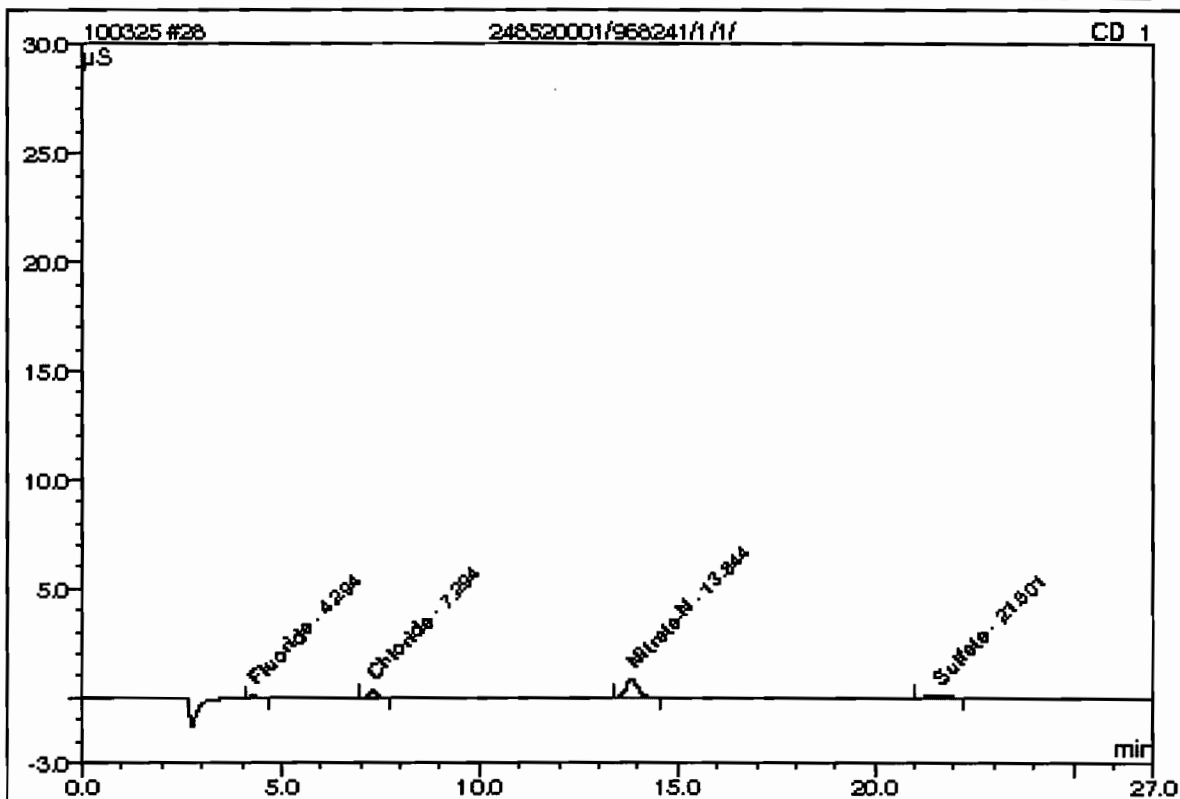
Sample Name:	1202078571/968241/1/1/MSD	Injection Volume:	50.0
Vial Number:	36	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 7:55	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.31	Fluoride	n.a.	5.1215		2.54045	12.30
3	7.32	Chloride	n.a.	10.8866		3.92234	18.99
4	9.39	Nitrite-N	n.a.	4.7174		3.43306	16.62
5	10.85	Chlorate	n.a.	2.4555		0.29455	1.43
6	11.79	Bromide	n.a.	2.4241		0.31017	1.50
7	13.82	Nitrate-N	n.a.	4.7361		3.95444	19.14
8	19.34	O-Phosphate-P	n.a.	1.5720		0.41344	2.00
9	21.89	Sulfate	n.a.	23.1559		5.71367	27.66
Total:				55.0691	0.000	20.582	99.63

**28 248520001/968241/1/1/**

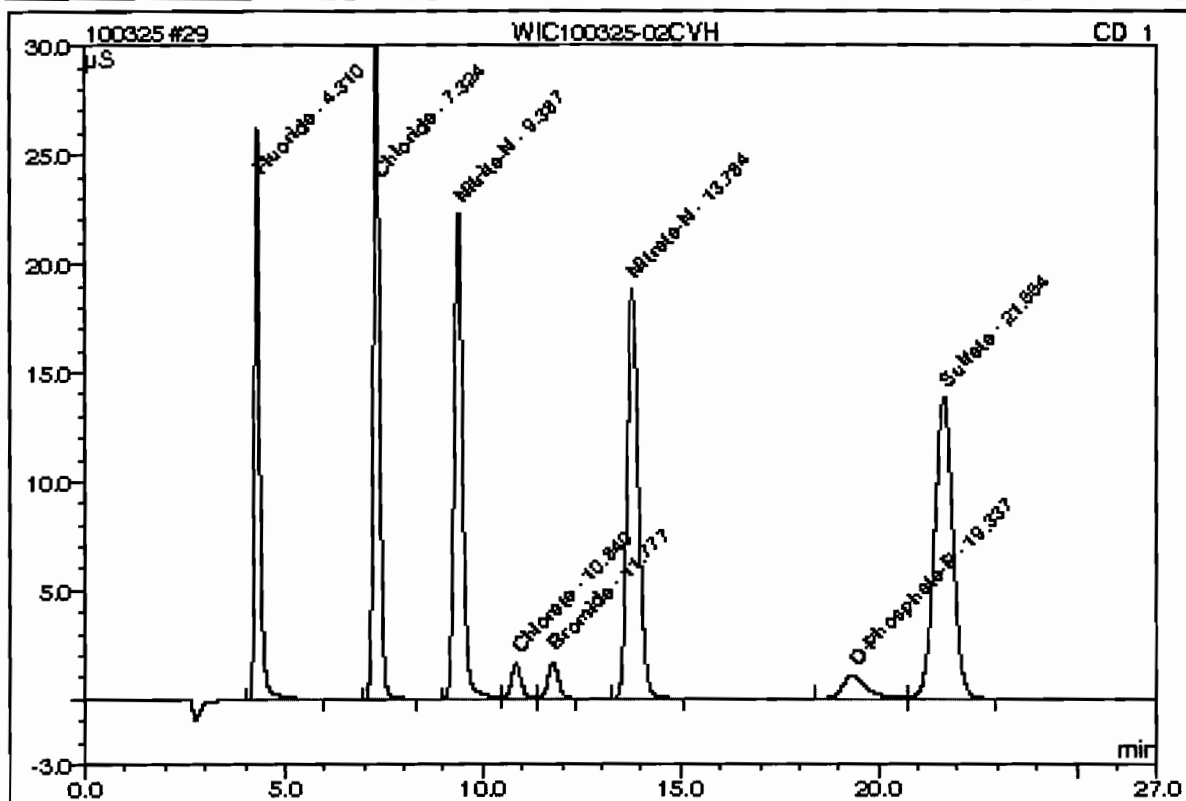
Sample Name:	248520001/968241/1/1/	Injection Volume:	50.0
Vial Number:	40	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 9:55	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.29	Fluoride	n.a.	0.0882		0.01627	3.96
2	7.29	Chloride	n.a.	0.3176		0.05872	14.28
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	13.84	Nitrate-N	n.a.	0.4248		0.28185	68.55
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.60	Sulfate	n.a.	0.5202		0.05430	13.21
Total:				1.3508	0.000	0.411	100.00

**29 WIC100325-02CVH**

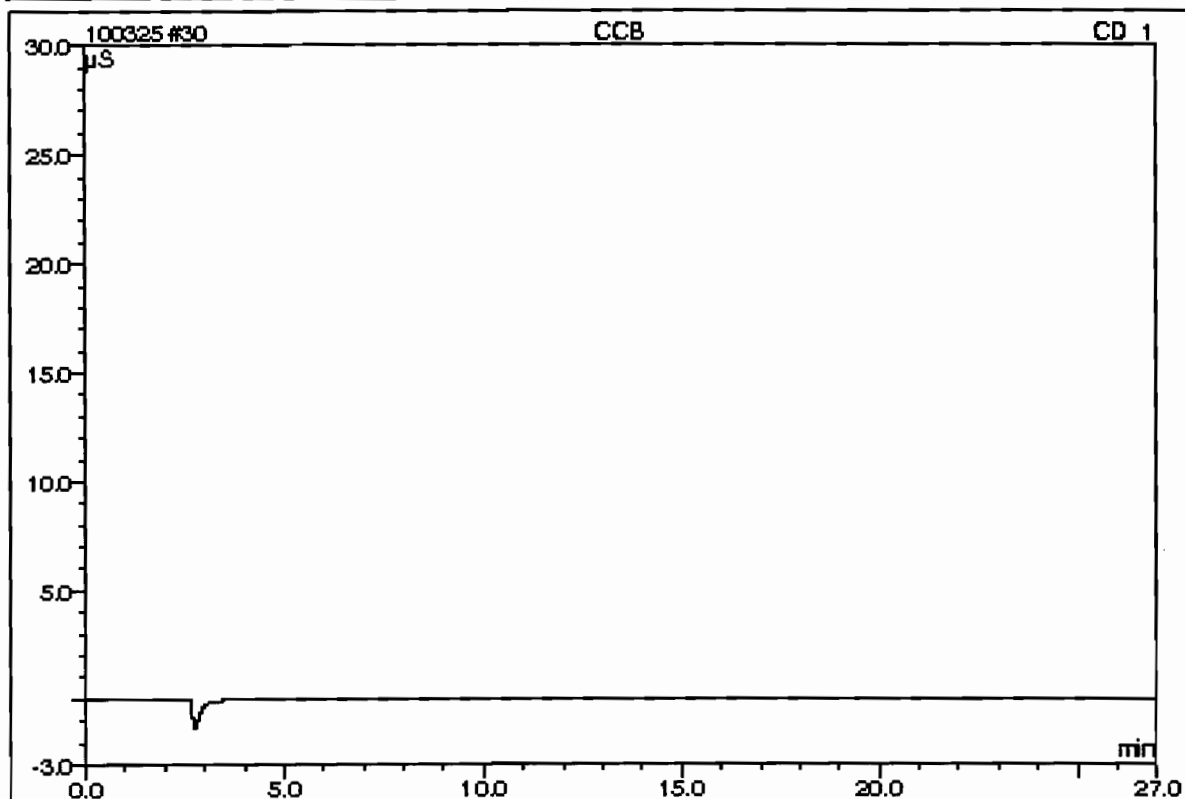
Sample Name:	WIC100325-02CVH	Injection Volume:	50.0
Vial Number:	41	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 10:24	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area uS*min	Rel.Area %
1	4.31	Fluoride	n.a.	7.7494		3.85838	12.78
2	7.32	Chloride	n.a.	14.9886		5.42184	17.96
3	9.39	Nitrite-N	n.a.	7.4976		5.47592	18.14
4	10.84	Chlorate	n.a.	3.7841		0.45499	1.51
5	11.78	Bromide	n.a.	3.7236		0.47778	1.58
6	13.78	Nitrate-N	n.a.	7.5210		6.32671	20.96
7	19.34	O-Phosphate-P	n.a.	2.7777		0.73186	2.42
8	21.65	Sulfate	n.a.	30.0356		7.43374	24.63
Total:				78.0777	0.000	30.181	100.00

**30 CCB**

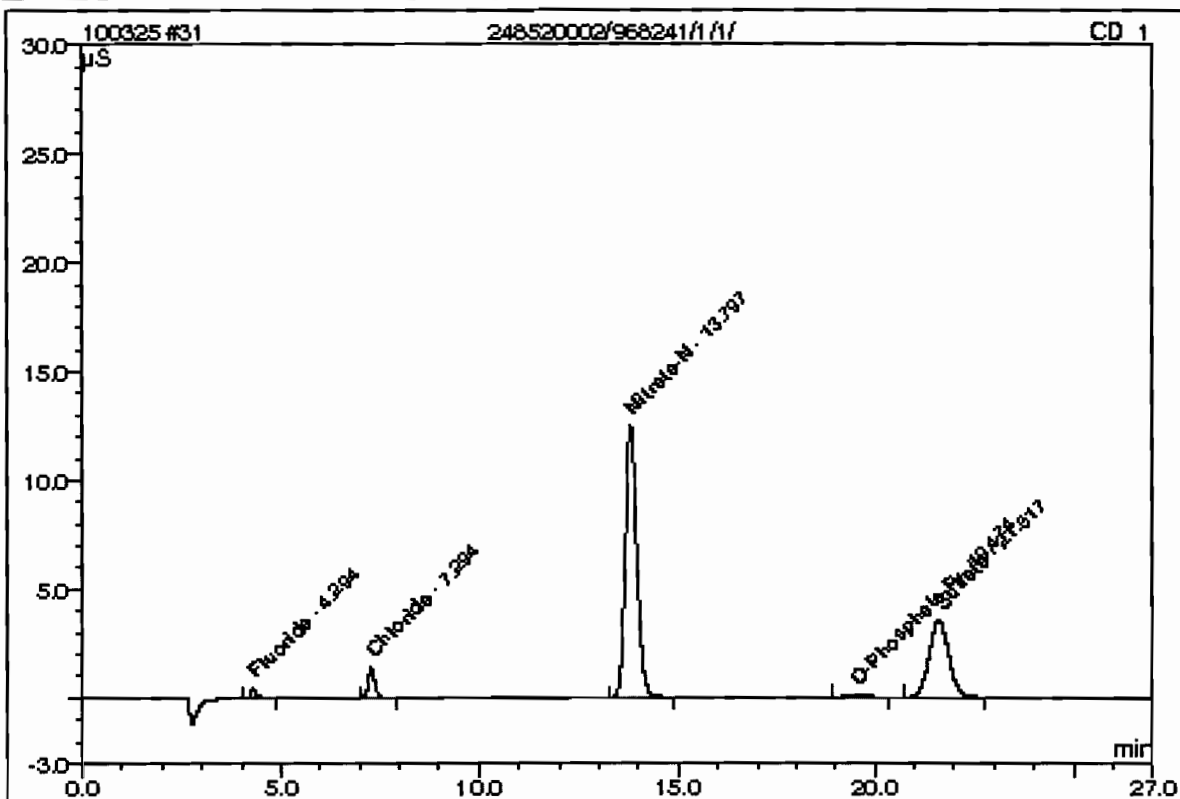
Sample Name:	CCB	Injection Volume:	50.0
Vial Number:	42	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 10:54	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



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.
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

**31 248520002/968241/1/1/**

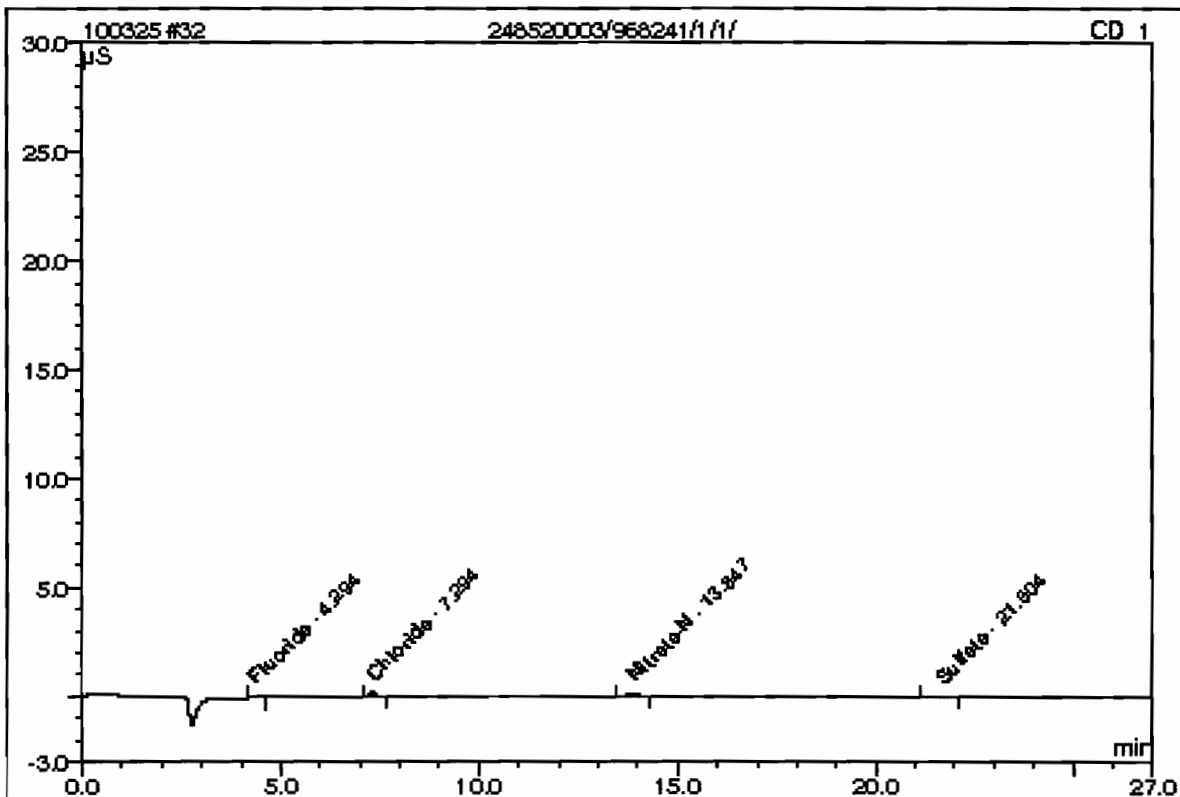
Sample Name:	248520002/968241/1/1/	Injection Volume:	50.0
Vial Number:	43	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 11:24	Analys:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.29	Fluoride	n.a.	0.1891		0.06687	1.02
2	7.29	Chloride	n.a.	0.8701		0.28069	3.96
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	13.80	Nitrate-N	n.a.	5.0297		4.20453	63.93
4	19.47	O-Phosphate-P	n.a.	0.1724		0.04384	0.67
5	21.62	Sulfate	n.a.	8.3066		2.00104	30.42
Total:				14.5679	0.000	6.577	100.00

**32 248520003/968241/1/1/**

Sample Name:	248520003/968241/1/1/	Injection Volume:	50.0
Vial Number:	44	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 11:54	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056

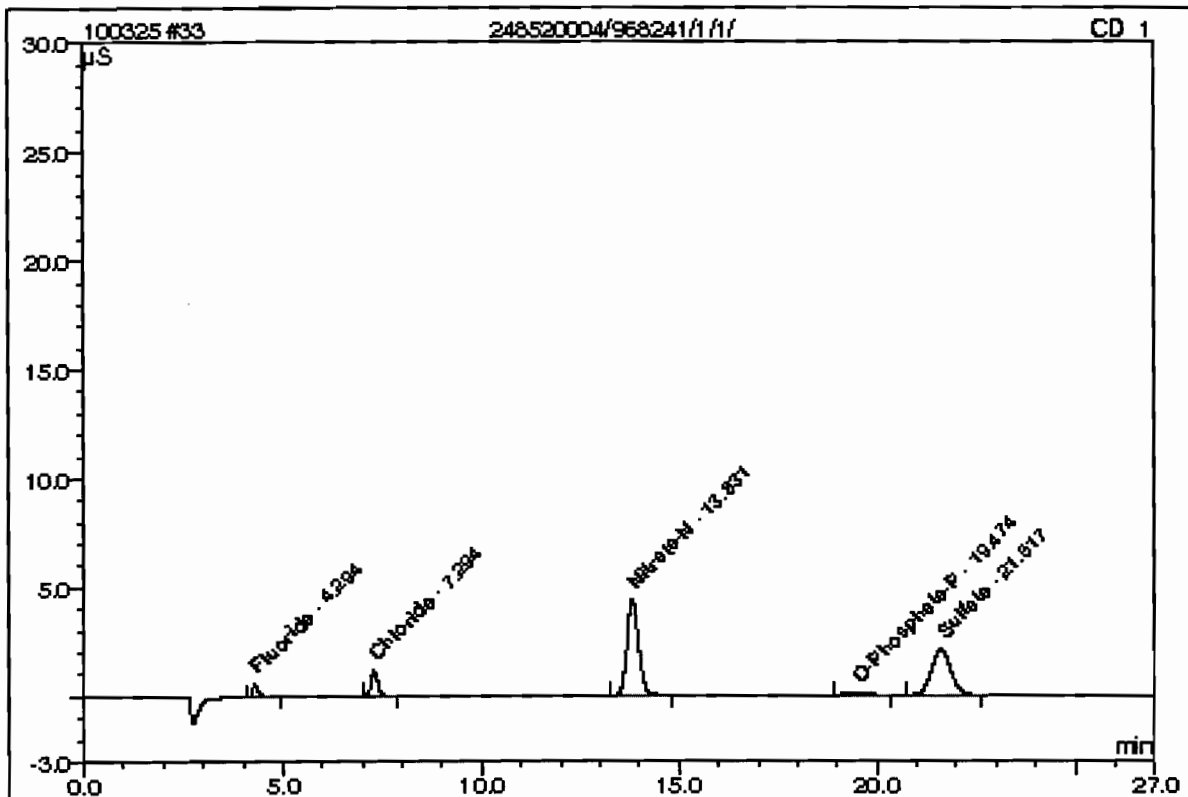


No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.29	Fluoride	n.a.	0.0858		0.01508	10.30
2	7.29	Chloride	n.a.	0.2676		0.04043	27.61
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.85	Nitrate-N	n.a.	0.1667		0.06198	42.33
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.60	Sulfate	n.a.	0.4188		0.02895	19.77
Total:				0.9389	0.000	0.146	100.00



**33 248520004/968241/1/1/**

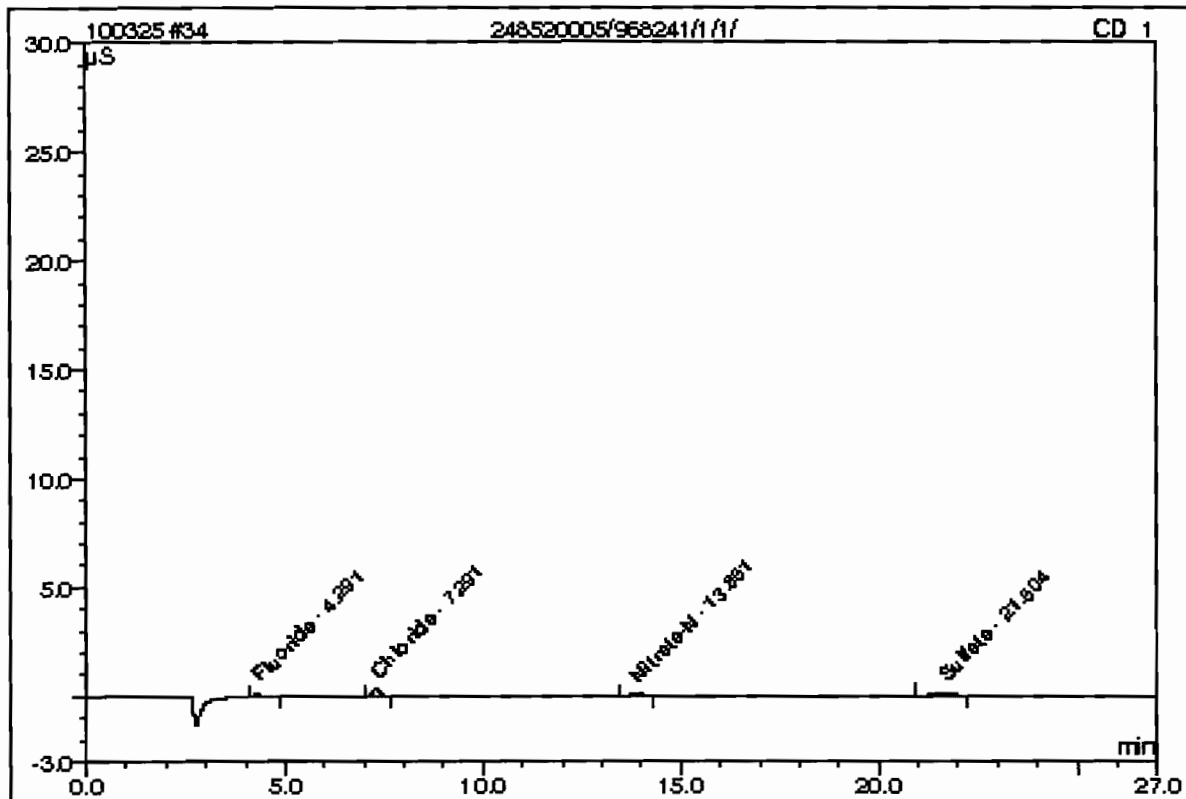
Sample Name:	248520004/968241/1/1/	Injection Volume:	50.0
Vial Number:	45	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 12:24	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.29	Fluoride	n.a.	0.2219		0.08331	2.78
2	7.29	Chloride	n.a.	0.7485		0.21624	7.23
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	13.83	Nitrate-N	n.a.	1.8453		1.49195	49.85
4	19.47	O-Phosphate-P	n.a.	0.1646		0.04177	1.40
5	21.62	Sulfate	n.a.	4.9403		1.15941	38.74
Total:				7.9207	0.000	2.993	100.00

**34 248520005/968241/1/1/**

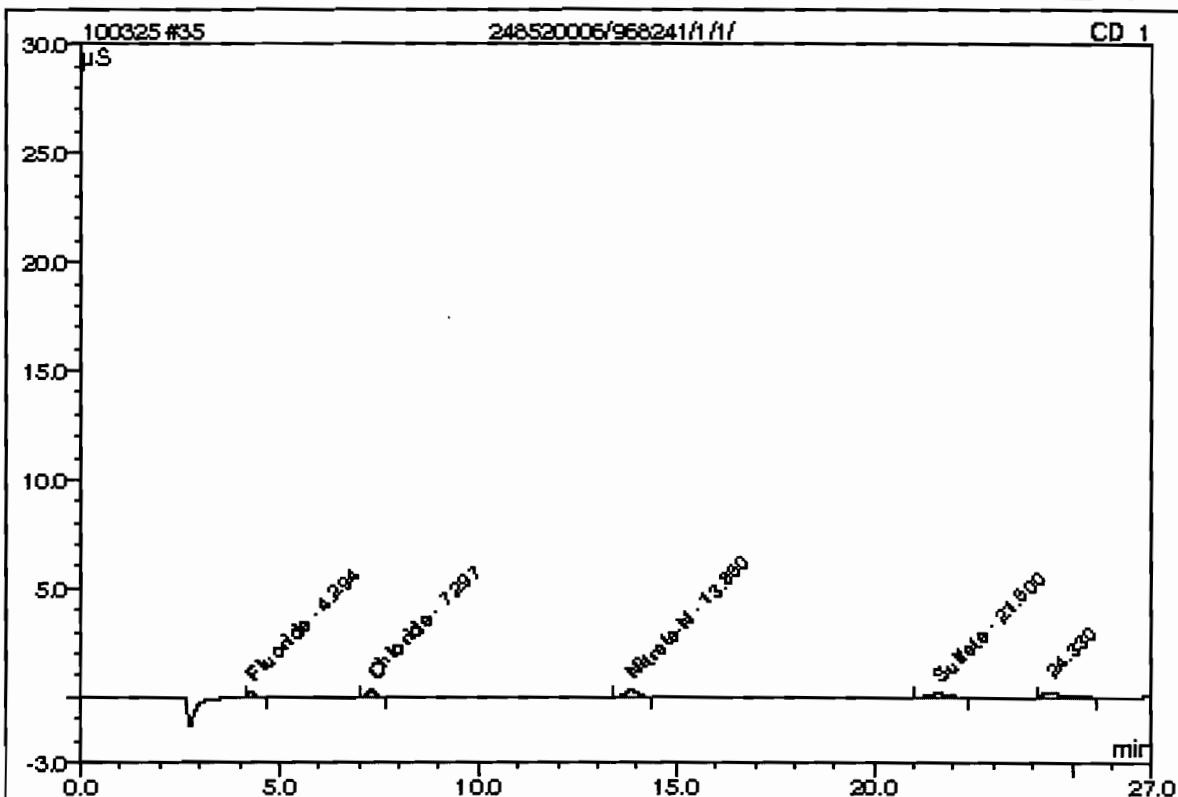
Sample Name:	248520005/968241/1/1/	Injection Volume:	50.0
Vial Number:	46	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 12:54	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.29	Fluoride	n.a.	0.1108		0.02760	13.78
2	7.29	Chloride	n.a.	0.3432		0.06808	34.00
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	13.85	Nitrate-N	n.a.	0.1352		0.03516	17.56
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.80	Sulfate	n.a.	0.5806		0.06939	34.66
Total:				1.1897	0.000	0.200	100.00

**35 248520006/968241/1/1/**

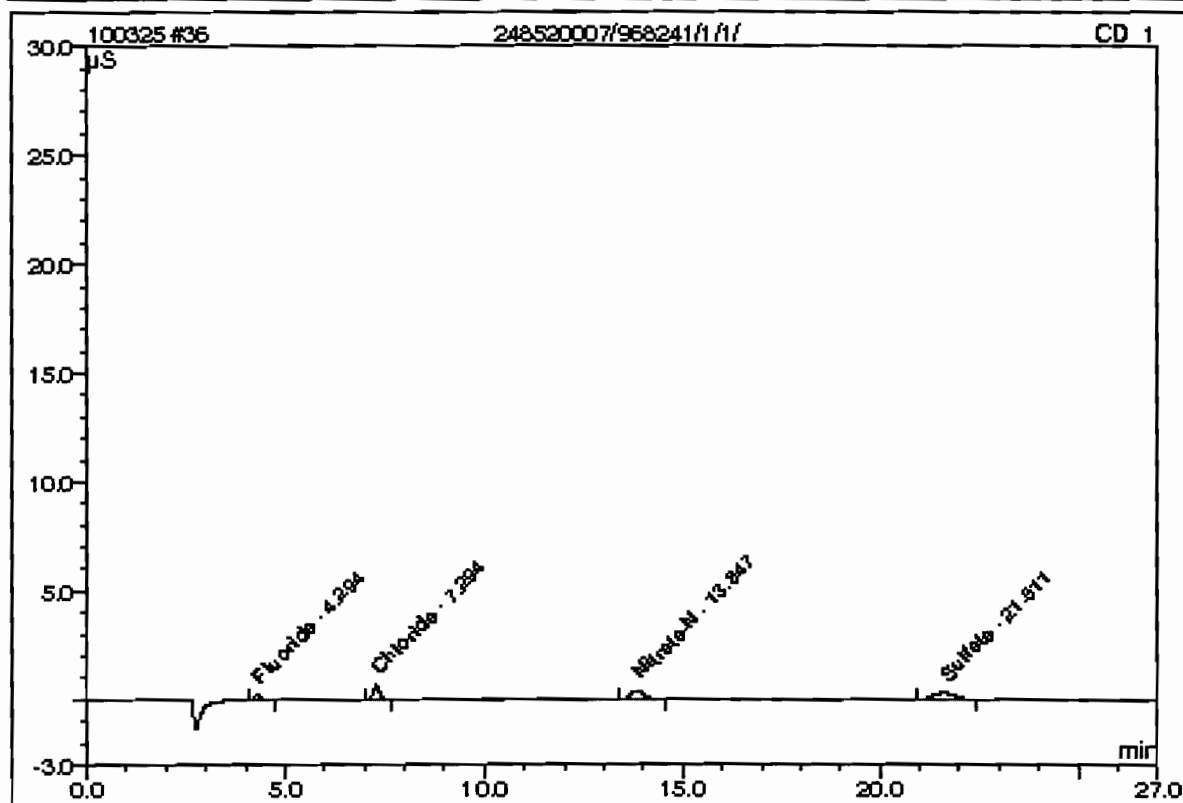
Sample Name:	248520006/968241/1/1/	Injection Volume:	50.0
Vial Number:	47	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 13:24	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.29	Fluoride	n.a.	0.1318		0.03813	8.66
2	7.30	Chloride	n.a.	0.3373		0.06590	14.97
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	13.85	Nitrate-N	n.a.	0.2185		0.10615	24.12
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.60	Sulfate	n.a.	0.6774		0.09361	21.27
Total:				1.3650	0.000	0.304	69.02

**36 248520007/968241/1/1/**

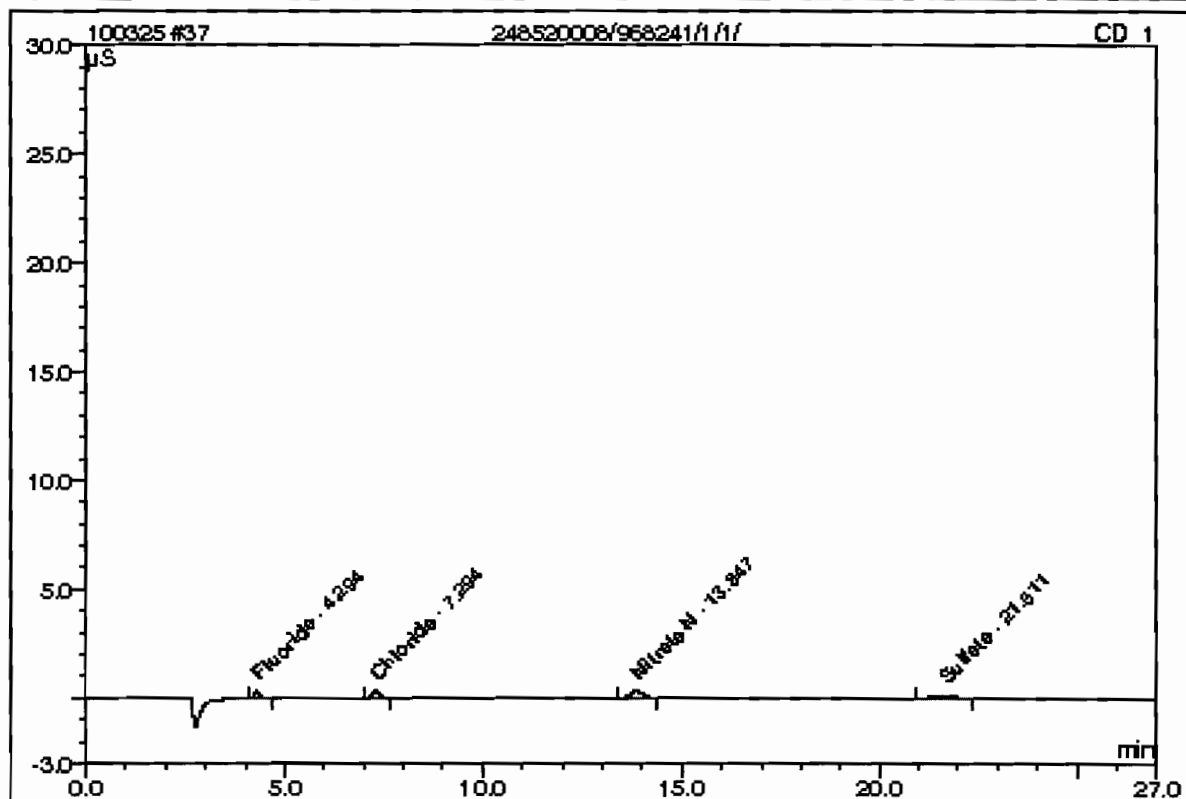
Sample Name:	248520007/968241/1/1/	Injection Volume:	50.0
Vial Number:	48	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 13:54	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;8056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.29	Fluoride	n.a.	0.1298		0.03712	7.81
2	7.29	Chloride	n.a.	0.4891		0.12142	25.53
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.
3	13.85	Nitrate-N	n.a.	0.2555		0.13765	28.95
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.61	Sulfate	n.a.	1.0203		0.17933	37.71
Total:				1.8947	0.000	0.476	100.00

**37 248520008/968241/1/1/**

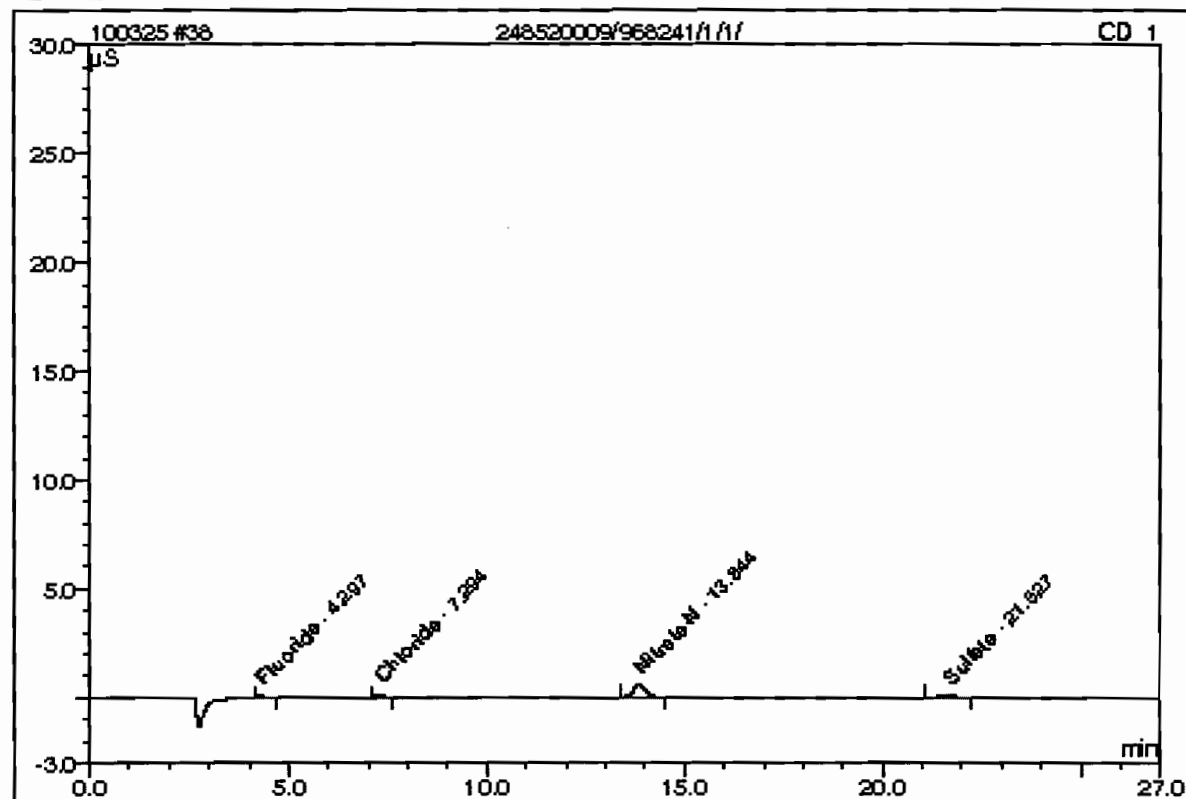
Sample Name:	248520008/968241/1/1/	Injection Volume:	50.0
Vial Number:	40	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 14:24	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.29	Fluoride	n.a.	0.1501		0.04729	16.16
2	7.29	Chloride	n.a.	0.3160		0.05813	19.87
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	13.85	Nitrate-N	n.a.	0.2252		0.11182	38.22
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.61	Sulfate	n.a.	0.6045		0.07537	25.76
Total:				1.2957	0.000	0.293	100.00

**38 248520009/968241/1/1/**

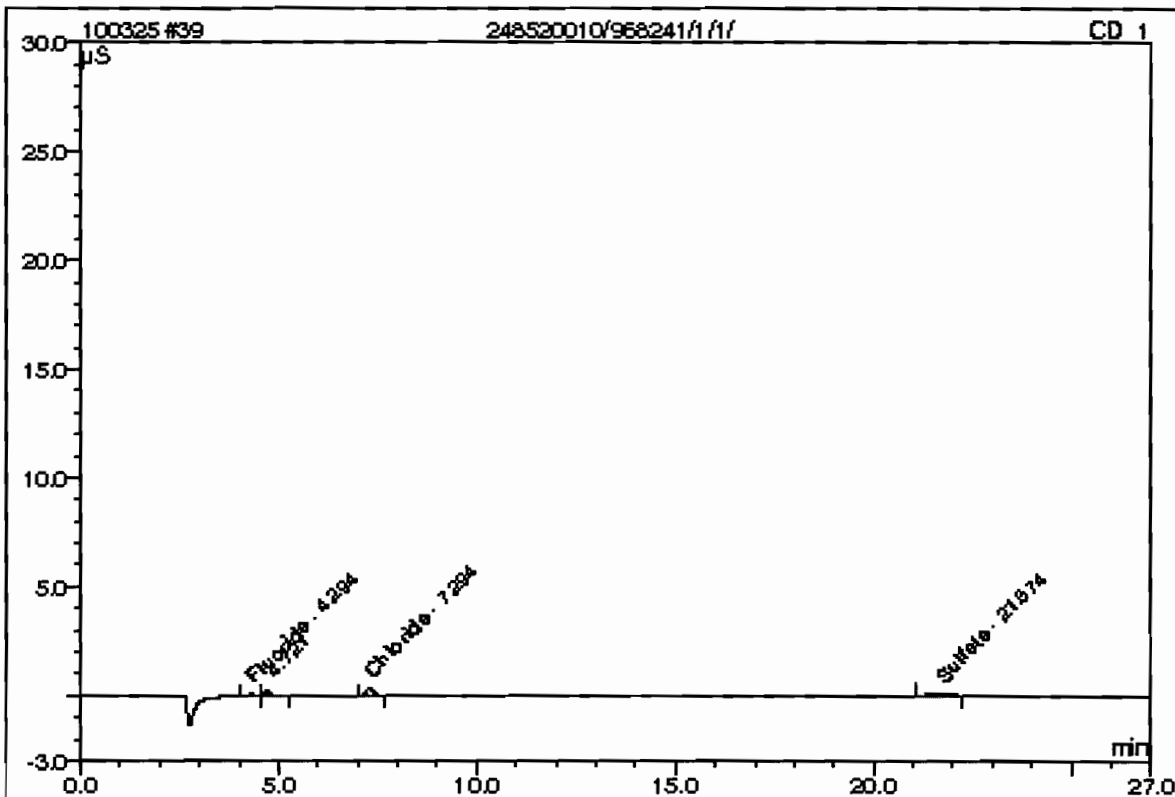
Sample Name:	248520009/968241/1/1/	Injection Volume:	50.0
Vial Number:	50	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 14:54	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.30	Fluoride	n.a.	0.0832		0.01375	5.35
2	7.29	Chloride	n.a.	0.2305		0.02687	10.44
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	13.84	Nitrate-N	n.a.	0.3142		0.18766	72.94
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.63	Sulfate	n.a.	0.4190		0.02899	11.27
Total:				1.0469	0.000	0.257	100.00

**39 248520010/968241/1/1/**

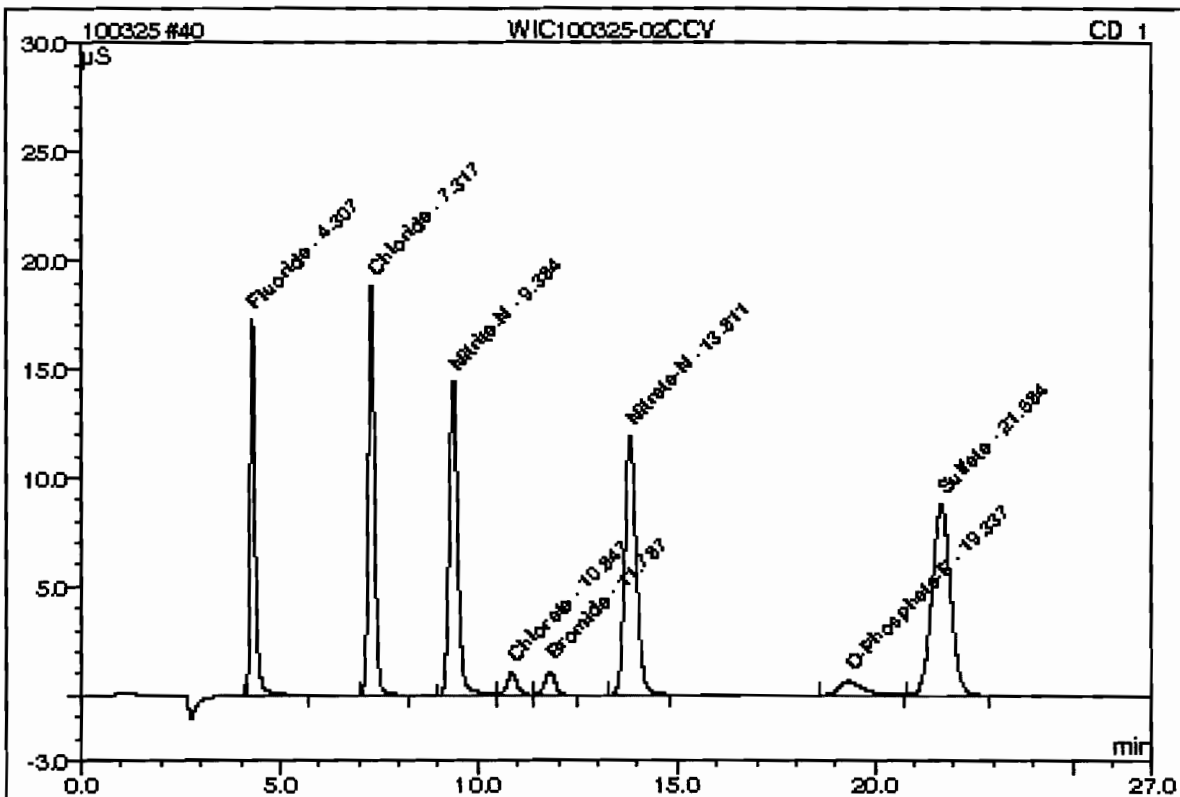
Sample Name:	248520010/968241/1/1/	Injection Volume:	50.0
Vial Number:	1	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 15:23	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.29	Fluoride	n.a.	0.0856		0.01497	9.08
3	7.29	Chloride	n.a.	0.3435		0.06817	41.34
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.
4	21.67	Sulfate	n.a.	0.4940		0.04775	28.96
<b>Total:</b>				0.9231	0.000	0.131	79.39

**40 WIC100325-02CCV**

Sample Name:	WIC100325-02CCV	Injection Volume:	50.0
Vial Number:	2	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 15:53	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056

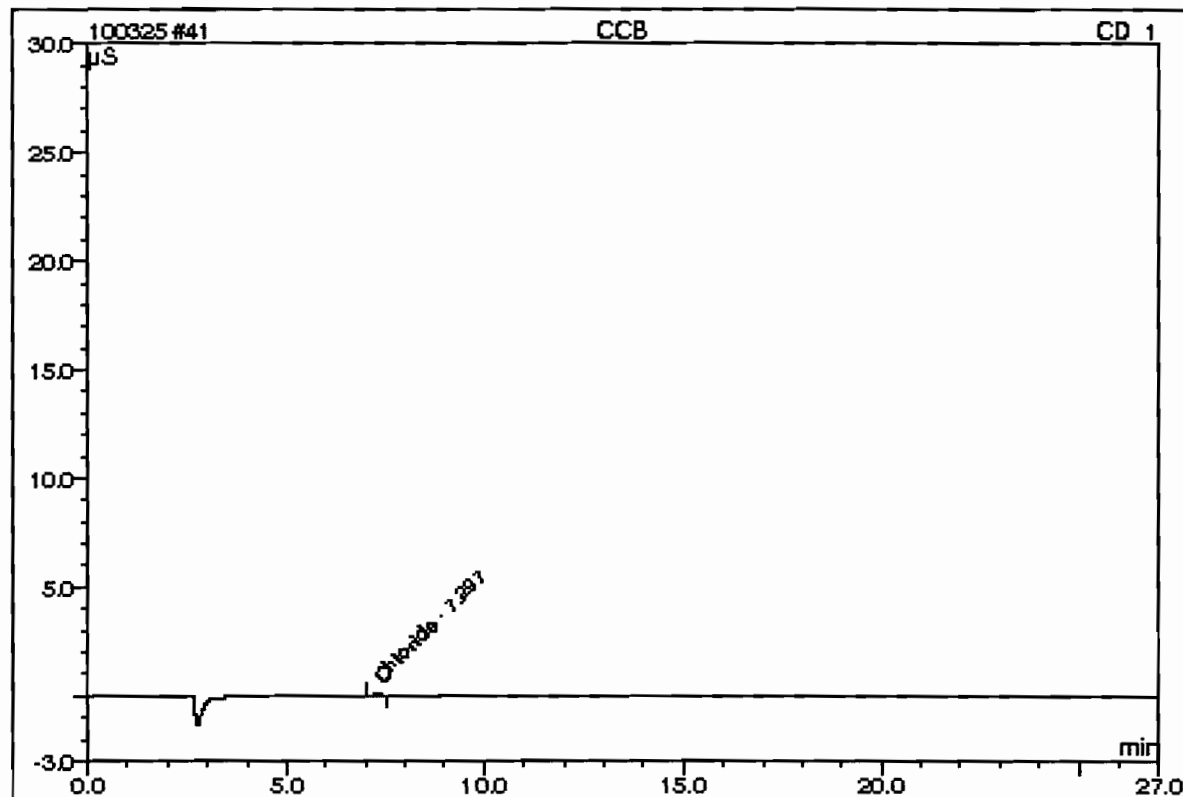


No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.31	Fluoride	n.a.	5.0443		2.50174	12.97
2	7.32	Chloride	n.a.	9.5331		3.42755	17.77
3	9.38	Nitrite-N	n.a.	4.8746		3.54854	18.40
4	10.85	Chlorate	n.a.	2.5311		0.30369	1.57
5	11.79	Bromide	n.a.	2.5039		0.32046	1.66
6	13.81	Nitrate-N	n.a.	4.7985		4.00758	20.78
7	19.34	O-Phosphate-P	n.a.	1.6430		0.43220	2.24
8	21.68	Sulfate	n.a.	19.2787		4.74428	24.60
Total:				50.2072	0.000	19.286	100.00



**41 CCB**

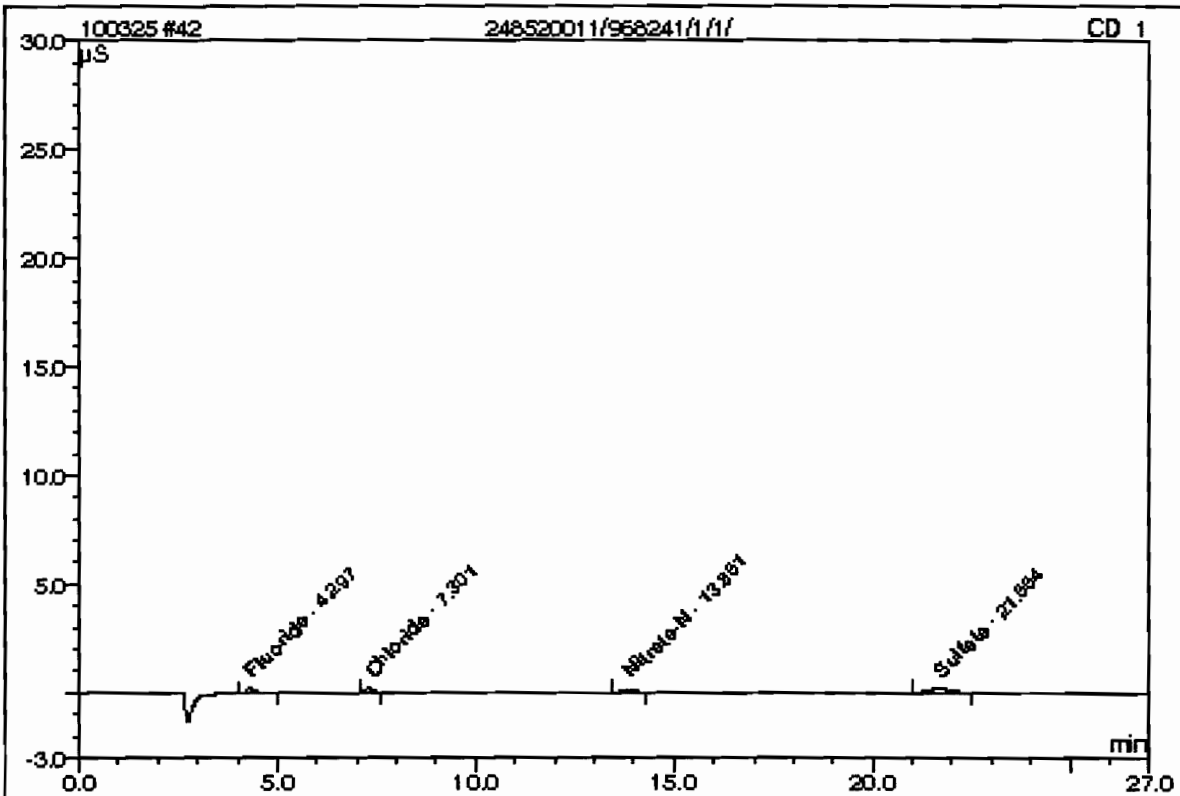
Sample Name:	CCB	Injection Volume:	50.0
Vial Number:	3	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 16:23	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC 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.
1	7.30	Chloride	n.a.	0.1871		0.01101	100.00
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:				0.1871	0.000	0.011	100.00

**42 248520011/968241/1/1/**

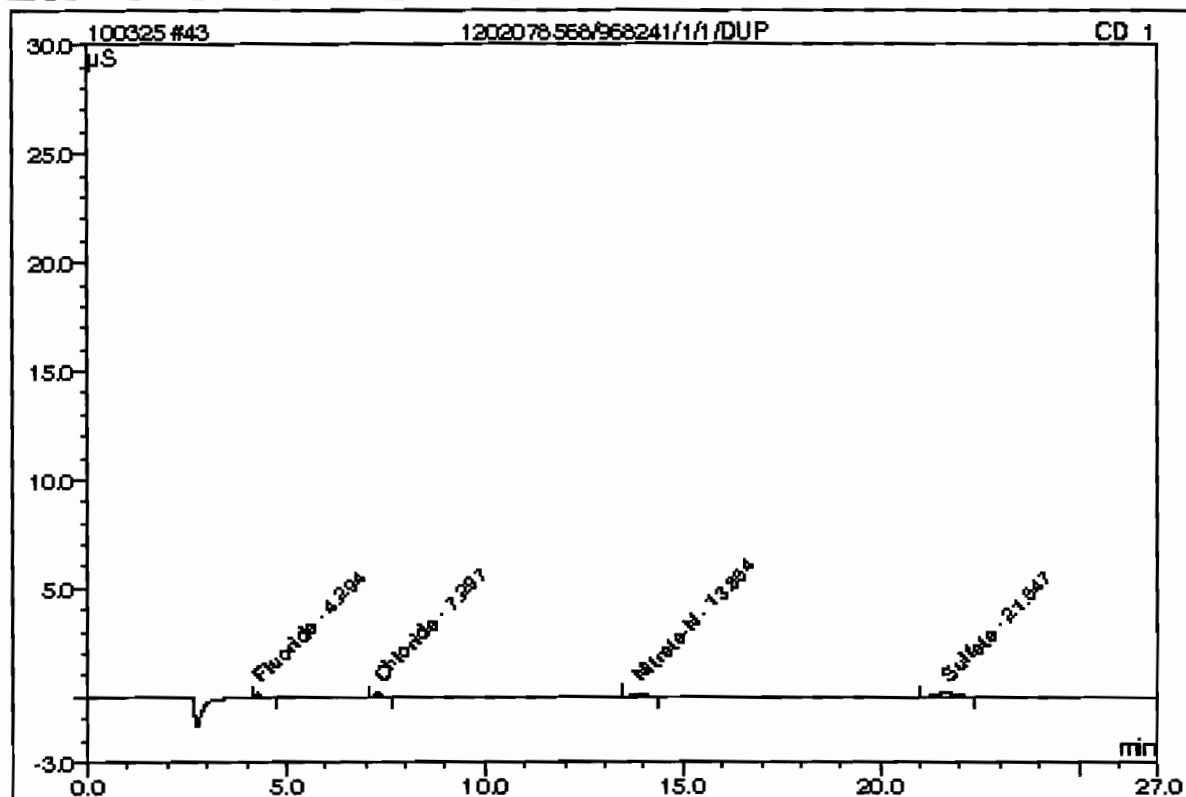
Sample Name:	248520011/968241/1/1/	Injection Volume:	50.0
Vial Number:	4	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 16:52	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.30	Fluoride	n.a.	0.1431		0.04382	19.29
2	7.30	Chloride	n.a.	0.2551		0.03586	15.79
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	13.86	Nitrate-N	n.a.	0.1479		0.04602	20.26
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.65	Sulfate	n.a.	0.7086		0.10141	44.65
Total:				1.2548	0.000	0.227	100.00

**43 1202078568/968241/1/1/DUP**

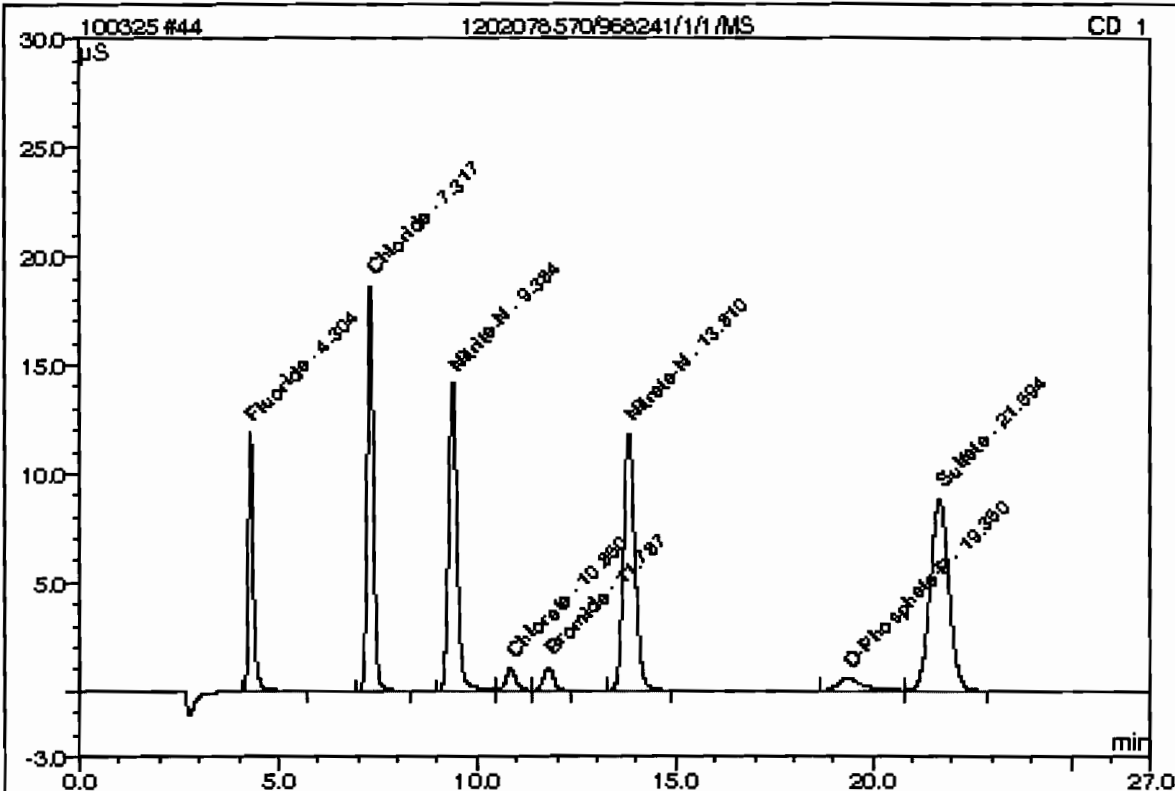
Sample Name:	1202078568/968241/1/1/DUP	Injection Volume:	50.0
Vial Number:	5	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 17:22	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86; 300; 9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.29	Fluoride	n.a.	0.1102		0.02729	13.57
2	7.30	Chloride	n.a.	0.2405		0.03051	15.17
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	13.85	Nitrate-N	n.a.	0.1478		0.04590	22.82
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.65	Sulfate	n.a.	0.6926		0.09740	48.44
Total:				1.1910	0.000	0.201	100.00

**44 1202078570/968241/1/1/MS**

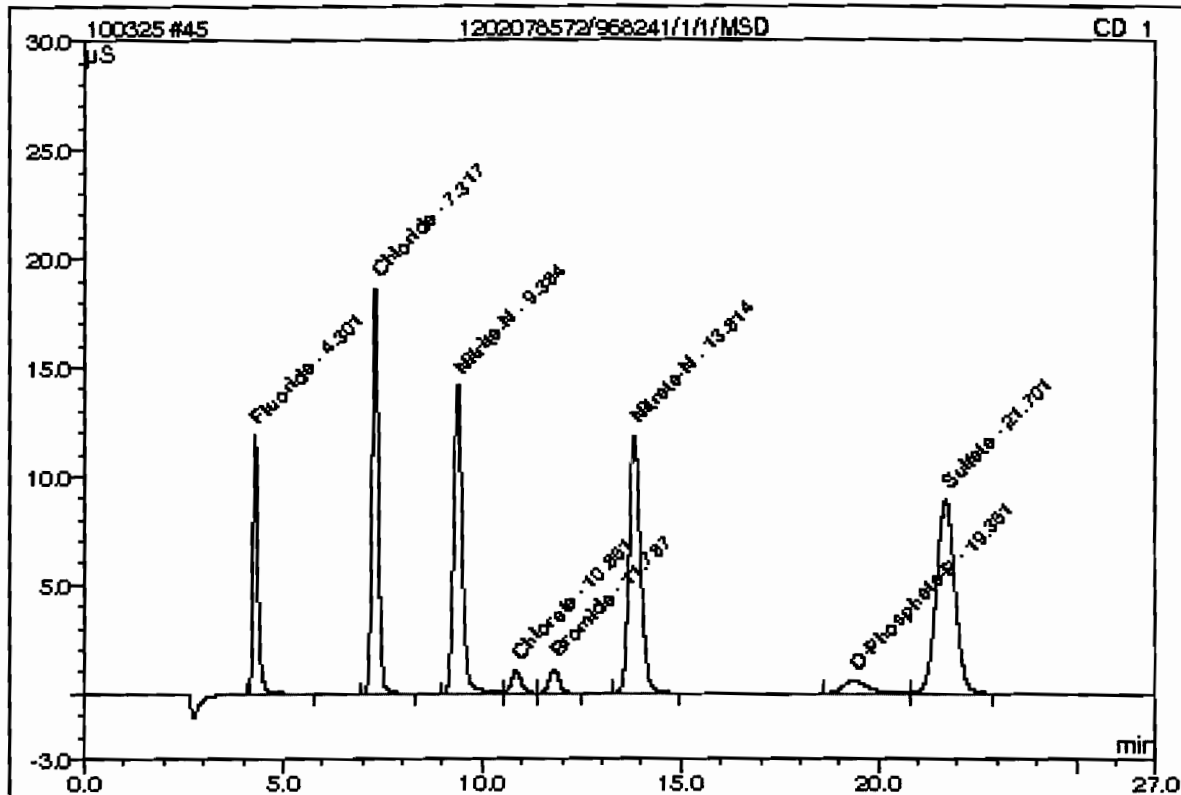
Sample Name:	1202078570/968241/1/1/MS	Injection Volume:	50.0
Vial Number:	6	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 17:51	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.30	Fluoride	n.a.	3.5221		1.73837	9.44
2	7.32	Chloride	n.a.	9.4280		3.38912	18.40
3	9.38	Nitrite-N	n.a.	4.7753		3.47562	18.87
4	10.85	Chlorate	n.a.	2.4770		0.29715	1.61
5	11.79	Bromide	n.a.	2.4331		0.31134	1.69
6	13.81	Nitrate-N	n.a.	4.7808		3.99249	21.67
7	19.38	O-Phosphate-P	n.a.	1.5413		0.40533	2.20
8	21.69	Sulfate	n.a.	19.5508		4.81233	26.12
Total:				48.5085	0.000	18.422	100.00

**45 1202078572/968241/1/1/MSD**

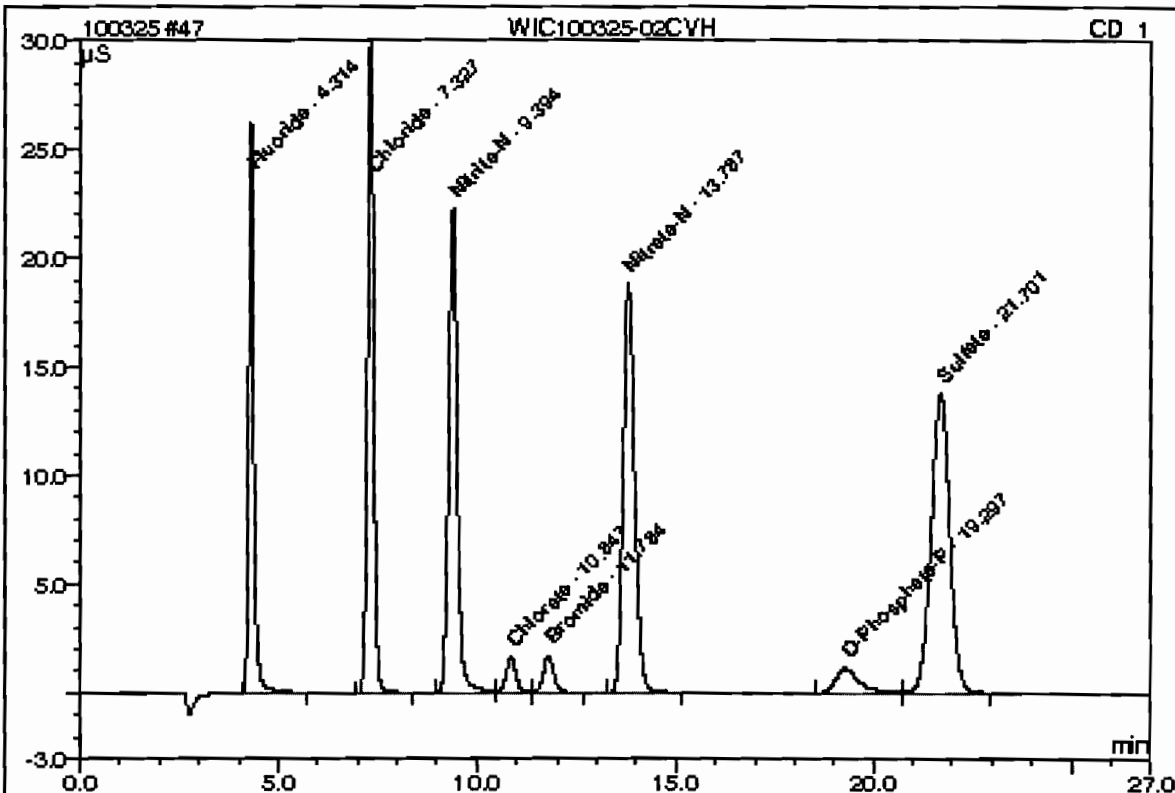
Sample Name:	1202078572/968241/1/1/MSD	Injection Volume:	50.0
Vial Number:	7	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 18:21	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel.Area %
1	4.30	Fluoride	n.a.	3.5251		1.73988	9.41
2	7.32	Chloride	n.a.	9.4255		3.38820	18.33
3	9.38	Nitrite-N	n.a.	4.7877		3.48472	18.86
4	10.85	Chlorate	n.a.	2.4841		0.29801	1.61
5	11.79	Bromide	n.a.	2.4782		0.31715	1.72
6	13.81	Nitrate-N	n.a.	4.7832		3.99452	21.61
7	19.35	O-Phosphate-P	n.a.	1.6084		0.42305	2.29
8	21.70	Sulfate	n.a.	19.6434		4.83548	26.16
Total:				48.7356	0.000	18.481	100.00

**47 WIC100325-02CVH**

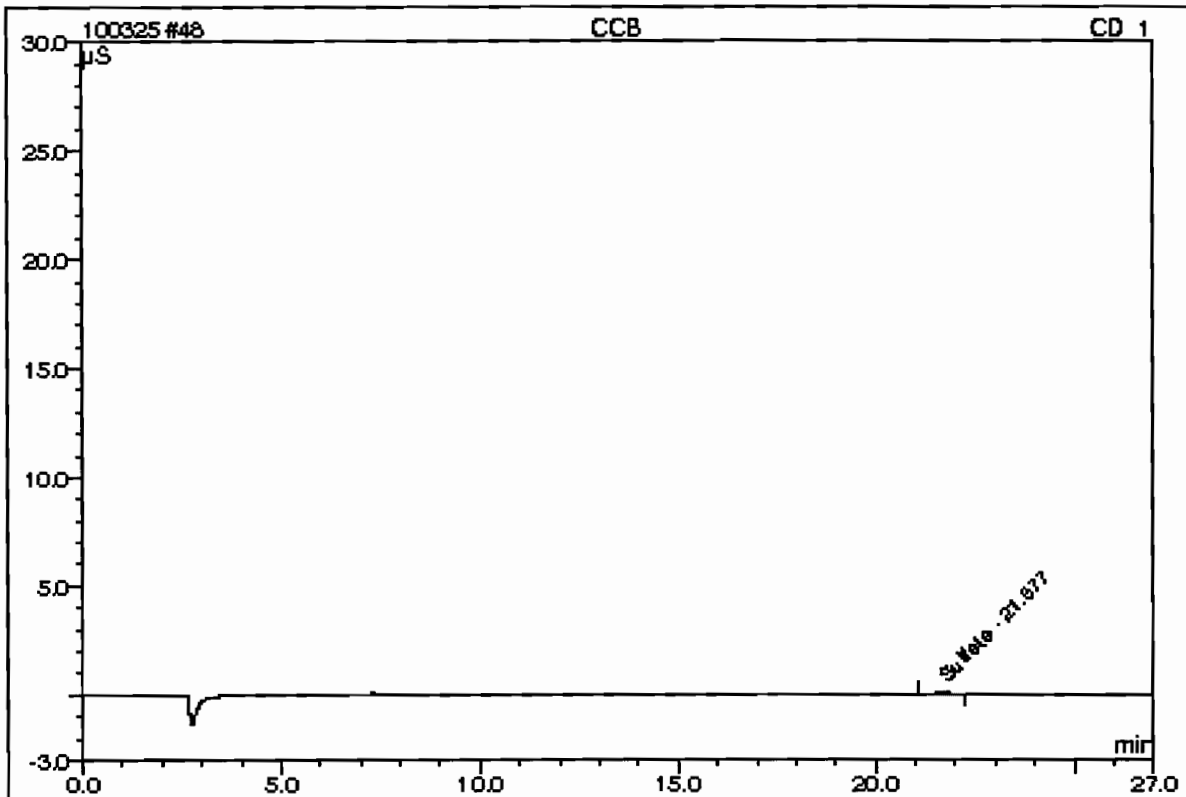
Sample Name:	WIC100325-02CVH	Injection Volume:	50.0
Vial Number:	9	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 19:21	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.31	Fluoride	n.a.	7.7291		3.84817	12.71
2	7.33	Chloride	n.a.	15.0072		5.42865	17.93
3	9.39	Nitrite-N	n.a.	7.5071		5.48285	18.11
4	10.85	Chlorate	n.a.	3.8727		0.48569	1.54
5	11.78	Bromide	n.a.	3.8605		0.49544	1.64
6	13.79	Nitrate-N	n.a.	7.5180		6.32417	20.89
7	19.30	O-Phosphate-P	n.a.	2.9296		0.77198	2.55
8	21.70	Sulfate	n.a.	30.1143		7.45342	24.62
Total:				78.5386	0.000	30.270	100.00

**48 CCB**

Sample Name:	CCB	Injection Volume:	50.0
Vial Number:	10	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/25/2010 19:51	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; 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.
1	21.68	Sulfate	n.a.	0.3873		0.02108	100.00
Total:				0.3873	0.000	0.021	100.00

**pH**



# pH / Corrosivity LogBook

Analyst: TXT1  
 Batch: 961563  
 Lab SOP: GL-GC-E-008 REV# 17  
 Description: pH  
 Method: SW846 9045C/9045D

Type Sample Id Serial Number Description  
 CCV 240 IMM091029-PH PH 7 BUFFER FOR PH  
 LCS 1202062462 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(%)
1202062462 LCS		Soil	09:30	09:35	05-MAR-10 14:56	pH	20	20	6.99	19.4°C	7	99.857	
1202062462 LCS		Soil	09:30	09:35	05-MAR-10 14:56	pH 2	20	20	6.99	19.5°C	7	99.857	
248396001		Soil	09:30	09:35	05-MAR-10 15:00	pH	20	20	8.1	19.8°C			
248396001		Soil	09:30	09:35	05-MAR-10 15:00	pH 2	20	20	8.08	19.8°C			
248396002		Soil	09:30	09:35	05-MAR-10 15:03	pH	20	20	7.82	19.8°C			
248396002		Soil	09:30	09:35	05-MAR-10 15:03	pH 2	20	20	7.79	19.9°C			
248396003		Soil	09:30	09:35	05-MAR-10 15:05	pH	20	20	7.95	19.9°C			
248396003		Soil	09:30	09:35	05-MAR-10 15:05	pH 2	20	20	7.95	19.9°C			
248396004		Soil	09:30	09:35	05-MAR-10 15:08	pH	20	20	8.28	20.0°C			
248396004		Soil	09:30	09:35	05-MAR-10 15:08	pH 2	20	20	8.27	20.0°C			
CCV			09:30	09:35	05-MAR-10 15:10	pH	20	20	7.03	19.3°C	7	100.429	
CCV			09:30	09:35	05-MAR-10 15:10	pH 2	20	20	7.02	19.3°C	7	100.286	
248396005		Soil	09:30	09:35	05-MAR-10 15:12	pH	20	20	8.06	20.1°C			
248396005		Soil	09:30	09:35	05-MAR-10 15:12	pH 2	20	20	8.05	20.1°C			
248520004		Soil	09:30	09:35	05-MAR-10 15:14	pH	20	20	6.12	20.3°C			
248520004		Soil	09:30	09:35	05-MAR-10 15:14	pH 2	20	20	6.12	20.3°C			
1202062460 DUP	248520004	Soil	09:30	09:35	05-MAR-10 15:16	pH	20	20	6.29	20.2°C			2.74
1202062460 DUP	248520004	Soil	09:30	09:35	05-MAR-10 15:16	pH 2	20	20	6.26	20.5°C			2.262
248520005		Soil	09:30	09:35	05-MAR-10 15:17	pH	20	20	5.51	20.6°C			
248520005		Soil	09:30	09:35	05-MAR-10 15:17	pH 2	20	20	5.48	20.6°C			
1202062461 DUP	248520005	Soil	09:30	09:35	05-MAR-10 15:22	pH	20	20	5.57	20.5°C			1.083
1202062461 DUP	248520005	Soil	09:30	09:35	05-MAR-10 15:22	pH 2	20	20	5.56	20.5°C			1.449
CCV			09:30	09:35	05-MAR-10 15:26	pH	20	20	7.04	19.1°C	7	100.571	
CCV			09:30	09:35	05-MAR-10 15:26	pH 2	20	20	7.03	19.1°C	7	100.429	
248520006		Soil	09:30	09:35	05-MAR-10 15:28	pH	20	20	6.24	20.3°C			
248520006		Soil	09:30	09:35	05-MAR-10 15:28	pH 2	20	20	6.22	20.3°C			
248520007		Soil	09:30	09:35	05-MAR-10 15:31	pH	20	20	6.61	20.2°C			
248520007		Soil	09:30	09:35	05-MAR-10 15:31	pH 2	20	20	6.59	20.2°C			

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# pH / Corrosivity LogBook

Analyst: TXT1  
 Batch: 961563  
 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  
 1202062462  
 IMM100209-01  
 LCS BUFFER SOLUTION

Sample id	Parent Sample Id	Matrix	Start Time	Stop Time	Run Date	Parmname	Initial Wt(g)	Final Vol(mL)	Ph	Temp	Nc(mg/L)	Recovery(%)	Rpd(%)
248520008		Soil	09:30	09:35	05-MAR-10 15:32	pH	20	20	6.37	20.2°C			
248520008		Soil	09:30	09:35	05-MAR-10 15:32	pH 2	20	20	6.37	20.2°C			
248520009		Soil	09:30	09:35	05-MAR-10 15:34	pH	20	20	6.67	20.1°C			
248520009		Soil	09:30	09:35	05-MAR-10 15:34	pH 2	20	20	6.64	20.1°C			
248520010		Soil	09:30	09:35	05-MAR-10 15:38	pH	20	20	6.57	20.1°C			
248520010		Soil	09:30	09:35	05-MAR-10 15:38	pH 2	20	20	6.56	20.1°C			
CCV			09:30	09:35	05-MAR-10 15:39	pH	20	20	7.01	18.6°C	7	100.143	
CCV			09:30	09:35	05-MAR-10 15:39	pH 2	20	20	7.01	18.6°C	7	100.143	
248520011		Soil	09:30	09:35	05-MAR-10 15:41	pH	20	20	6.72	20.0°C			
248520011		Soil	09:30	09:35	05-MAR-10 15:41	pH 2	20	20	6.71	20.1°C			
248526001		Soil	09:30	09:35	05-MAR-10 15:44	pH	20	20	6.83	20.2°C			
248526001		Soil	09:30	09:35	05-MAR-10 15:44	pH 2	20	20	6.83	20.1°C			
248560001		Soil	09:30	09:35	05-MAR-10 15:45	pH	20	20	8.09	20.1°C			
248560001		Soil	09:30	09:35	05-MAR-10 15:45	pH 2	20	20	8.08	20.1°C			
248560002		Soil	09:30	09:35	05-MAR-10 15:48	pH	20	20	5.85	19.9°C			
248560002		Soil	09:30	09:35	05-MAR-10 15:48	pH 2	20	20	5.84	19.8°C			
248560003		Soil	09:30	09:35	05-MAR-10 15:51	pH	20	20	6.83	19.8°C			
248560003		Soil	09:30	09:35	05-MAR-10 15:51	pH 2	20	20	6.81	19.8°C			
CCV			09:30	09:35	05-MAR-10 15:53	pH	20	20	6.99	18.2°C	7	99.857	
CCV			09:30	09:35	05-MAR-10 15:53	pH 2	20	20	6.99	18.2°C	7	99.857	
248560004		Soil	09:30	09:35	05-MAR-10 15:54	pH	20	20	6.88	19.7°C			
248560004		Soil	09:30	09:35	05-MAR-10 15:54	pH 2	20	20	6.87	19.7°C			
248560005		Soil	09:30	09:35	05-MAR-10 15:57	pH	20	20	6.4	19.7°C			
248560005		Soil	09:30	09:35	05-MAR-10 15:57	pH 2	20	20	6.36	19.7°C			
248560006		Soil	09:30	09:35	05-MAR-10 15:59	pH	20	20	6.73	19.8°C			
248560006		Soil	09:30	09:35	05-MAR-10 15:59	pH 2	20	20	6.72	19.7°C			
CCV			09:30	09:35	05-MAR-10 16:02	pH	20	20	6.99	18.0°C	7	99.857	
CCV			09:30	09:35	05-MAR-10 16:02	pH 2	20	20	6.99	18.0°C	7	99.857	

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# pH / Corrosivity LogBook

Calibration Information:

Run Date: 05-MAR-10 08:00

Instrument: PHX370

Analyst: TXT1

Comments:

Standard	Observed	Theoretical	C	%Recovery
IMM100305-PH1	4	4	21.4	100
IMM100305-PH2	6.99	7	21.4	99.857
UPH100305-PH3	9.97	10	21.4	99.7
UPH100305-PH4	2.02	2	21.4	101
UPH100305-PH5	11.94	12	21.4	99.5
IMM100305-PH6	6.98	7	21.4	99.714

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# pH / Corrosivity LogBook

Analyst: TXTI  
Batch: 961560  
Lab SOP: GL-GC-E-008 REV# 17  
Description: pH  
Method: SW846 9045C/9045D

Type: CCV LCS  
Sample Id: 240 1202062456  
Serial Number: IMM091029-PH IMM100209-01  
Description: PH 7 BUFFER FOR PH LCS BUFFER SOLUTION

Sample id	Parent Sample Id	Matrix	Start Time	Stop Time	Run Date	Parname	Initial W(g)	Final Vol(mL)	Ph	Temp	Net(mg/L)	Recovery(%)	Rpd(%)
1202062456 LCS		Soil	10:15	10:20	05-MAR-10 16:43	pH	20	20	6.95	17.1°C	7	99.286	
1202062456 LCS		Soil	10:15	10:20	05-MAR-10 16:43	pH 2	20	20	6.95	16.9°C	7	99.286	
248511008		Soil	10:15	10:20	05-MAR-10 16:44	pH	20	20	6.47	18.8°C			
248511008		Soil	10:15	10:20	05-MAR-10 16:44	pH 2	20	20	6.45	18.8°C			
1202062454 DUP	248511008	Soil	10:15	10:20	05-MAR-10 16:48	pH	20	20	6.43	18.9°C			.62
1202062454 DUP	248511008	Soil	10:15	10:20	05-MAR-10 16:48	pH 2	20	20	6.42	18.9°C			.466
248511009		Soil	10:15	10:20	05-MAR-10 16:52	pH	20	20	7.68	18.9°C			
248511009		Soil	10:15	10:20	05-MAR-10 16:52	pH 2	20	20	7.68	18.9°C			
1202062455 DUP	248511009	Soil	10:15	10:20	05-MAR-10 16:53	pH	20	20	7.76	19.0°C			1.036
1202062455 DUP	248511009	Soil	10:15	10:20	05-MAR-10 16:53	pH 2	20	20	7.75	19.0°C			.907
CCV			10:15	10:20	05-MAR-10 16:55	pH	20	20	6.98	17.1°C	7	99.714	
CCV			10:15	10:20	05-MAR-10 16:55	pH 2	20	20	6.98	17.1°C	7	99.714	
248511010		Soil	10:15	10:20	05-MAR-10 16:56	pH	20	20	7.58	18.9°C			
248511010		Soil	10:15	10:20	05-MAR-10 16:56	pH 2	20	20	7.58	18.9°C			
248511011		Soil	10:15	10:20	05-MAR-10 16:59	pH	20	20	6.4	18.9°C			
248511011		Soil	10:15	10:20	05-MAR-10 16:59	pH 2	20	20	6.37	18.9°C			
248511012		Soil	10:15	10:20	05-MAR-10 17:02	pH	20	20	6.68	18.9°C			
248511012		Soil	10:15	10:20	05-MAR-10 17:02	pH 2	20	20	6.67	18.9°C			
248511013		Soil	10:15	10:20	05-MAR-10 17:04	pH	20	20	6.13	18.9°C			
248511013		Soil	10:15	10:20	05-MAR-10 17:04	pH 2	20	20	6.11	19.0°C			
248511014		Soil	10:15	10:20	05-MAR-10 17:05	pH	20	20	6.29	19.0°C			
248511014		Soil	10:15	10:20	05-MAR-10 17:05	pH 2	20	20	6.27	19.0°C			
CCV			10:15	10:20	05-MAR-10 17:07	pH	20	20	7	17.2°C	7	100	
CCV			10:15	10:20	05-MAR-10 17:07	pH 2	20	20	6.99	17.2°C	7	99.857	
248511015		Soil	10:15	10:20	05-MAR-10 17:08	pH	20	20	6.54	19.0°C			
248511015		Soil	10:15	10:20	05-MAR-10 17:08	pH 2	20	20	6.49	19.0°C			
248511016		Soil	10:15	10:20	05-MAR-10 17:10	pH	20	20	6.09	19.1°C			
248511016		Soil	10:15	10:20	05-MAR-10 17:10	pH 2	20	20	6.07	19.1°C			

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# pH / Corrosivity LogBook

Analyst: TXT1  
 Batch: 961560  
 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  
 1202062456  
 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(%)
248511017		Soil	10:15	10:20	05-MAR-10 17:12	pH	20	20	5.74	19.1°C			
248511017		Soil	10:15	10:20	05-MAR-10 17:12	pH 2	20	20	5.71	19.1°C			
248511018		Soil	10:15	10:20	05-MAR-10 17:15	pH	20	20	6.44	19.1°C			
248511018		Soil	10:15	10:20	05-MAR-10 17:15	pH 2	20	20	6.41	19.1°C			
248511019		Soil	10:15	10:20	05-MAR-10 17:18	pH	20	20	5.59	19.1°C			
248511019		Soil	10:15	10:20	05-MAR-10 17:18	pH 2	20	20	5.57	19.1°C			
CCV			10:15	10:20	05-MAR-10 17:20	pH	20	20	7	17.3°C	7	100	
CCV			10:15	10:20	05-MAR-10 17:20	pH 2	20	20	7	17.3°C	7	100	
248511020		Soil	10:15	10:20	05-MAR-10 17:21	pH	20	20	6.13	19.0°C			
248511020		Soil	10:15	10:20	05-MAR-10 17:21	pH 2	20	20	6.12	19.1°C			
248515001		Soil	10:15	10:20	05-MAR-10 17:23	pH	20	20	5.48	19.1°C			
248515001		Soil	10:15	10:20	05-MAR-10 17:23	pH 2	20	20	5.48	19.1°C			
248515002		Soil	10:15	10:20	05-MAR-10 17:25	pH	20	20	6.19	19.2°C			
248515002		Soil	10:15	10:20	05-MAR-10 17:25	pH 2	20	20	6.17	19.3°C			
248515003		Soil	10:15	10:20	05-MAR-10 17:26	pH	20	20	6.46	19.3°C			
248515003		Soil	10:15	10:20	05-MAR-10 17:26	pH 2	20	20	6.49	19.4°C			
248517001		Soil	10:15	10:20	05-MAR-10 17:28	pH	20	20	6.69	19.2°C			
248517001		Soil	10:15	10:20	05-MAR-10 17:28	pH 2	20	20	6.69	19.3°C			
CCV			10:15	10:20	05-MAR-10 17:29	pH	20	20	7.01	17.5°C	7	100.143	
CCV			10:15	10:20	05-MAR-10 17:29	pH 2	20	20	7.01	17.5°C	7	100.143	
248520001		Soil	10:15	10:20	05-MAR-10 17:30	pH	20	20	6.15	19.5°C			
248520001		Soil	10:15	10:20	05-MAR-10 17:30	pH 2	20	20	6.12	19.5°C			
248520002		Soil	10:15	10:20	05-MAR-10 17:33	pH	20	20	6.29	19.4°C			
248520002		Soil	10:15	10:20	05-MAR-10 17:33	pH 2	20	20	6.31	19.5°C			
248520003		Soil	10:15	10:20	05-MAR-10 17:35	pH	20	20	6.8	19.5°C			
248520003		Soil	10:15	10:20	05-MAR-10 17:35	pH 2	20	20	6.79	19.5°C			
CCV			10:15	10:20	05-MAR-10 17:38	pH	20	20	7.03	17.9°C	7	100.429	
CCV			10:15	10:20	05-MAR-10 17:38	pH 2	20	20	7.02	17.9°C	7	100.286	

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pH / Corrosivity LogBook

Calibration Information:

Run Date: 05-MAR-10 08:00  
Instrument: PHX370  
Analyst: TXT1

Comments:

Standard	Observed	Theoretical	C	%Recovery
IMM100305-PH1	4	4	SU	100
IMM100305-PH2	6.99	7	SU	21.4 99.857
UPH100305-PH3	9.97	10	SU	21.4 99.7
UPH100305-PH4	2.02	2	SU	21.4 101
UPH100305-PH5	11.94	12	SU	21.4 99.5
IMM100305-PH6	6.98	7	SU	21.4 99.714

# Miscellaneous

### DATA EXCEPTION REPORT

<b>Mo.Day Yr.</b> 17-MAR-10	<b>Division:</b> Industrial	<b>Quality Criteria:</b> Specifications	<b>Type:</b> Process
<b>Instrument Type:</b> LACHAT Flow Injection Analyzer	<b>Test / Method:</b> SW846 9012A	<b>Matrix Type:</b> Solid	<b>Client Code:</b> LANL
<b>Batch ID:</b> 961288	<b>Sample Numbers:</b> See Below		
<b>Potentially affected work order(s)(SDG):</b> 248520(10-2200),248549(10-2214) <b>Application Issues:</b> Failed RPD for DUP			
<b>Specification and Requirements</b> <b>Exception Description:</b>		<b>DER Disposition:</b>	
1. Failed RPD for DUP:  QC 1202061959DUP  2. Failed recovery for MS/MSD:  QC 1202061960MS 1202061961MS 1202061962MSD 1202061963MSD		1. The relative percent difference (RPD) between the sample and its duplicate falls outside of the required acceptance limits due to the heterogeneous matrix of the sample (soil sample).  1. The matrix spike falls outside of the client specified acceptance limits due to matrix interference. The matrix spike duplicate verified the result with a passing RPD.	

**Originator's Name:**  
Ashley Earl 17-MAR-10

**Data Validator/Group Leader:**  
Elzbieta Szulc 18-MAR-10