

Friday, February 26, 2010

LOS ALAMOS

NATIONAL LABORATORY

REQUEST NUMBER: 10-2138

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

These Samples are on:

LANL Request Number: 10-2138

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples according to the schedule indicated:

SHIP DATE: 2/26/2010

TURNAROUND/REPORT DUE: 3/26/2010

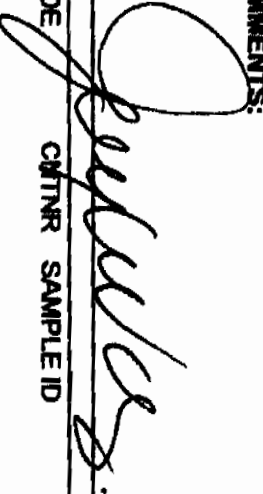
TURNAROUND REQD: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
EPA:300.0		1	RE36-10-8464	R	2/24/2010	
		1	RE36-10-8471	R	2/24/2010	
		1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	
		1	RE36-10-8464	R	2/24/2010	
SW-846-6010B		1	RE36-10-8464	R	2/24/2010	

Friday, February 26, 2010

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REQUEST NUMBER: 10-2138

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:6010B	1	1	RE36-10-8471	R	2/24/2010	
			RE36-10-8475	R	2/24/2010	
			RE36-10-8477	R	2/24/2010	
			RE36-10-8479	R	2/24/2010	
			RE36-10-8481	R	2/24/2010	
			RE36-10-8484	R	2/24/2010	
			RE36-10-8485	R	2/24/2010	
			RE36-10-8464	R	2/24/2010	
			RE36-10-8471	R	2/24/2010	
			RE36-10-8475	R	2/24/2010	
SW-846:6020	1	1	RE36-10-8477	R	2/24/2010	
			RE36-10-8479	R	2/24/2010	
			RE36-10-8481	R	2/24/2010	
			RE36-10-8484	R	2/24/2010	
			RE36-10-8485	R	2/24/2010	
			RE36-10-8493	W	2/24/2010	
			RE36-10-8464	R	2/24/2010	
			RE36-10-8471	R	2/24/2010	
			RE36-10-8475	R	2/24/2010	
			RE36-10-8479	R	2/24/2010	
SW-846:6850	1	1	RE36-10-8477	R	2/24/2010	
			RE36-10-8479	R	2/24/2010	
			RE36-10-8481	R	2/24/2010	
			RE36-10-8484	R	2/24/2010	
			RE36-10-8485	R	2/24/2010	
			RE36-10-8493	W	2/24/2010	
			RE36-10-8464	R	2/24/2010	
			RE36-10-8471	R	2/24/2010	
			RE36-10-8475	R	2/24/2010	
			RE36-10-8479	R	2/24/2010	
SW-846:7470A	1	1	RE36-10-8481	R	2/24/2010	
			RE36-10-8484	R	2/24/2010	
			RE36-10-8485	R	2/24/2010	
			RE36-10-8493	W	2/24/2010	
			RE36-10-8464	R	2/24/2010	
			RE36-10-8471	R	2/24/2010	
			RE36-10-8475	R	2/24/2010	
			RE36-10-8479	R	2/24/2010	
			RE36-10-8481	R	2/24/2010	
			RE36-10-8484	R	2/24/2010	
SW-846:7471A	1	1	RE36-10-8485	R	2/24/2010	
			RE36-10-8493	W	2/24/2010	
			RE36-10-8464	R	2/24/2010	
			RE36-10-8471	R	2/24/2010	
			RE36-10-8475	R	2/24/2010	
			RE36-10-8479	R	2/24/2010	
			RE36-10-8481	R	2/24/2010	
			RE36-10-8484	R	2/24/2010	
			RE36-10-8485	R	2/24/2010	
			RE36-10-8493	W	2/24/2010	

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PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846.7471A						
		1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	
SW-846.9012A						
		1	RE36-10-8464	R	2/24/2010	
		1	RE36-10-8471	R	2/24/2010	
		1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	
		1	RE36-10-8493	W	2/24/2010	
SW-846.9045C						
		1	RE36-10-8464	R	2/24/2010	
		1	RE36-10-8471	R	2/24/2010	
		1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	

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Friday, February 26, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2138

REQUEST NUMBER: 10-2138

LOS ALAMOS

NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc.,
Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

TURNAROUND/REPORT DUE: 3/28/2010

TURNAROUND REQ'D: 30

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-8493	1	POLY	METALS+U-GEL	Nitric Acid	W
RE36-10-8493	1	POLY	SW-846:6850	Ice	W
RE36-10-8493	1	POLY	TCN	Sodium Hydroxide	W
RE36-10-8484	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8484	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8475	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8475	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8471	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8471	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8485	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8485	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8477	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8477	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8479	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8479	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8484	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8484	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8481	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8481	1	POLY	Perchlorate+CN+N03+pH	Ice	R

Relinquished By:

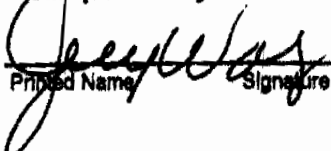
Date

Time

Received By:

Date

Time


Printed Name Signature

2/26/10 1400

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: 2511

EVENT NAME: 4th Qtr. FY09 - SWMU 36-003(a) - Threemile Canyon

SAMPLE ID: RE36-10-8464

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/24/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1535		SUB-MEDIA:		TUFF 1	
PRS ID: 36-003(a)		ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID: 36-610880		↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE: GENERIC		↓		FIELD PREP: NA		↓	
TOP DEPTH: 0		3.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH: 0		4.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		R		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:

Brownish gray tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

3a-3

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 5 dpm
Beta/Gamma ≤ 2010 dpm



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

73m 2/24/10

COLLECTED BY (PRINT)

Jr McFarland

REVIEWED BY (PRINT) Jon Roberson

RELINQUISHED BY (Printed Name) Riley Evans (Signature) 	Date/Time 2/24/10 1634	RECEIVED BY (Printed Name)  (Signature)	Date/Time 2/24/10 4:34
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2511

EVENT NAME: 4th Qtr. FY09 - SWMU 36-003(a) - Threemile Canyon

SAMPLE ID: RE36-10-8471

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/24/2010		MEDIA:	QBT3		QBT 2
TIME COLLECTED (HH:MM)		1435		SUB-MEDIA:	TUFF 1		OK
PRS ID:	36-003(a)	OK		SAMPLE TECH CODE:	HA		
LOCATION ID:	36-610882			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	5.6		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	6.1		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

Gray tuff and clay

SAMPLE COMMENTS:

NA

LOCATION DESC:

3a5 7.6 ft from 3a6: 5 ft N from staked location 3a5

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 30 dpm
 Beta/Gamma \leq 2290 dpm

PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$ 2/20/10

COLLECTED BY (PRINT)

T. McFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Riley Evans	2/24/10	(Printed Name)	2/24/10
(Signature)	1634	(Signature)	4134
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2511

EVENT NAME: 4th Qtr. FY09 - SWMU 36-003(a) - Threemile Canyon

SAMPLE ID: RE36-10-8475

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/24/2010		MEDIA:	QBT3		OK QBT3
TIME COLLECTED (HH:MM)		13/2		SUB-MEDIA:	TUFF 1		OK
PRS ID:	36-003(a)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	36-610884	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	2.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	R		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	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML 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:

Gray tuff and red bricks

SAMPLE COMMENTS:

NA

LOCATION DESC:

3a-7

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 41 dpm
 Beta/Gamma \leq 2270 dpm

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

72m 2/24/10

COLLECTED BY (PRINT)

TLMcFarlane

REVIEWED BY (PRINT) Jonhinson

RELINQUISHED BY (Printed Name) R. Evans (Signature)	Date/Time 2/24/10 1634	RECEIVED BY (Printed Name) (Signature)	Date/Time 2/24/10 4:34
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2511

EVENT NAME: 4th Qtr. FY09 - SWMU 36-003(a) - Threemile Canyon

SAMPLE ID: RE36-10-8477

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/24/2010		MEDIA:	QBT3	JR 2/24/10	
TIME COLLECTED (HH:MM)		1255		SUB-MEDIA:	TUFF 1	OK	
PRS ID:	36-003(a)	ok		SAMPLE TECH CODE:	HA	ok	
LOCATION ID:	36-610885	↓		FIELD QC TYPE:	NA	↓	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA	↓	
TOP DEPTH:	0	2.5		SAMPLE USAGE:	INV	↓	
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML 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:

Gray, buff

SAMPLE COMMENTS:

NA

LOCATION DESC:

3a-8

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 30 dpm
 Beta/Gamma \leq 1970 dpm

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




72m 2/24/10

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) Riley Evans (Signature) 	Date/Time 2/24/10 1634	RECEIVED BY (Printed Name)  (Signature) 	Date/Time 2/24/10 4134
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2511

EVENT NAME: 4th Qtr. FY09 - SWMU 36-003(a) - Threemile Canyon

SAMPLE ID: RE36-10-8479

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/24/2010	MEDIA:		QBT3
TIME COLLECTED(HH:MM)		1300	SUB-MEDIA:		TUFF 1
PRS ID:	36-003(a)	OK	SAMPLE TECH CODE:		HA
LOCATION ID:	36-610886	↓	FIELD QC TYPE:		NA
LOCATION TYPE:	GENERIC	↓	FIELD PREP:		NA
TOP DEPTH:	0	2.3	SAMPLE USAGE:		INV
BOTTOM DEPTH:	0	3.9	SCREEN/PORT DESC:		73m 2/24/10 ↓ NA
FIELD MATRIX:	R	R	EXCAVATED: YES/NO/NA		NO/NA
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA	WATER FLOWING: YES/NO/NA		NO/NA
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA	BOREHOLE DIRECTION: NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML 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:

Gray, tuff and brown clay

SAMPLE COMMENTS:

NA

LOCATION DESC: 3a-10

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 25 dpm
Beta/Gamma ≤ 2100 dpm

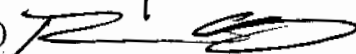
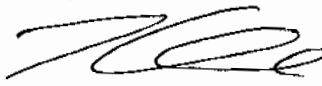
PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

73m 2/24/10

COLLECTED BY (PRINT)

T. McFarland

REVIEWED BY (PRINT) Jon Roberson

RELINQUISHED BY (Printed Name) R. Key (Signature) 	Date/Time 2/24/10 1634	RECEIVED BY (Printed Name)  (Signature)	Date/Time 2/24/10 4134
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2511

EVENT NAME: 4th Qtr. FY09 - SWMU 36-003(a) - Threemile Canyon

SAMPLE ID: RE36-10-8481

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/24/2010		MEDIA:	OBT3	JR2/24/10	
TIME COLLECTED (HH:MM)		1237		SUB-MEDIA:	TUFF 1	OK Q3T2	
PRS ID:	36-003(a)	ok		SAMPLE TECH CODE:	HA	ok	
LOCATION ID:	36-610887	↓		FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV	↓	
BOTTOM DEPTH:	0	4.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				WATER FLOWING: YES/NO/NA			
BOREHOLE DECLINATION:	NA			BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML 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:

Gray tuff and brown clay

SAMPLE COMMENTS:

NA

LOCATION DESC:

3a-9

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 30 dpm
 Beta/Gamma \leq 2010 dpm

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

73m 2/24/10

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Ryley Swans	2/24/10	(Printed Name)	2/24/10
(Signature)	1634	(Signature)	4134
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2511

EVENT NAME: 4th Qtr. FY09 - SWMU 36-003(a) - Threemile Canyon

SAMPLE ID: RE36-10-8484

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/24/2010	MEDIA:		OBT3
TIME COLLECTED (HH:MM)		1425	SUB-MEDIA:		TUFF 1
PRS ID:	36-003(a)	ok	SAMPLE TECH CODE:		HA
LOCATION ID:	36-610889	↓	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	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML 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 and clay

SAMPLE COMMENTS:

NA

LOCATION DESC: 3a-2

FIELD SCREENING/MEASUREMENT RESULTS:



Alpha \leq 25 dpm
Beta/Gamma \leq 2110 dpm

PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$ 73m 2/24/10

COLLECTED BY (PRINT)

Th McFarlang

REVIEWED BY (PRINT) Jon Roberson

RELINQUISHED BY (Printed Name) Riley Gwms (Signature) 	Date/Time 2/24/10 1634	RECEIVED BY (Printed Name)  (Signature)	Date/Time 2/24/10 4:34
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2511

EVENT NAME: 4th Qtr. FY09 - SWMU 36-003(a) - Threemile Canyon

SAMPLE ID: RE36-10-8485

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/24/2010	MEDIA:	OBT3	Allh
TIME COLLECTED (HH:MM)		1455	SUB-MEDIA:	TUEF1	NA
PRS ID:	36-003(a)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	36-610889	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	3.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	4.2	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	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML 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	1	

SAMPLE DESC:

clayey sand, dark brown/reddish brown, moist, few organics

SAMPLE COMMENTS:

NA

LOCATION DESC:

3a-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 10 dpm
Beta/Gamma \leq 1734 dpm

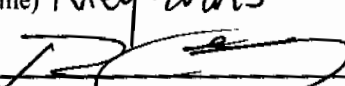
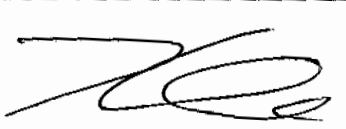
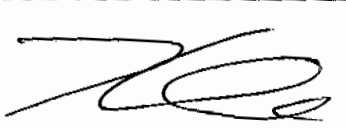
PID $\frac{\text{Ambient Reading}}{\text{ppm}}$

7am 2/24/10

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT) Jon Roberson

RELINQUISHED BY (Printed Name) Riley Coons (Signature) 	Date/Time 2/24/10 1634	RECEIVED BY (Printed Name)  (Signature) 	Date/Time 2/24/10 4:34
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2511

EVENT NAME: 4th Qtr. FY09 - SWMU 36-003(a) - Threemile Canyon

SAMPLE ID: RE36-10-8493

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/24/2010	MEDIA:	NA		ok	
TIME COLLECTED (HH:MM)		1512	SUB-MEDIA:	OTHER			
PRS ID:	36-003(a)	ok	SAMPLE TECH CODE:	DC			
LOCATION ID:	UNK	36-610889	FIELD QC TYPE:	FR			
LOCATION TYPE:	GENERIC	ok	FIELD PREP:	UF			
TOP DEPTH:	0		SAMPLE USAGE:	QC			
BOTTOM DEPTH:	0		SCREEN/PORT DESC:				NA
FIELD MATRIX:	W		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	METALS+U-GEL	1 LITER POLY	Nitric Acid	Y	
1		NO3NO2	250 ML POLY	Sulfuric Acid (Hydrogen Sulfate)	N	
1	Normal	SW-846:6850	250 ML POLY	Ice	Y	
1	Normal	TCN	500 ML POLY	Sodium Hydroxide	Y	

SAMPLE DESC: QC Sample of RE 36-10-8485

SAMPLE COMMENTS:

Rinsate

LOCATION DESC:

NA




FIELD SCREENING/MEASUREMENT RESULTS:


NA

COLLECTED BY (PRINT)

TL McFarlane

REVIEWED BY (PRINT) Jon Roberson

RELINQUISHED BY (Printed Name) Riley Evans (Signature) 	Date/Time 2/24/10 1634	RECEIVED BY (Printed Name)  (Signature) 	Date/Time 2/24/10 4134
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

DATA VALIDATION COVER SHEET	
5121-1 <div style="text-align: center;">Data Validation Cover Sheet</div>	Records Use only 

Section I.

REQUEST NUMBER: 10-2138 VALIDATION DATE: 04/26/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

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

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

<input type="checkbox"/> TPH-GRO	<input type="checkbox"/> HIGH EXPLOSIVES	<input type="checkbox"/> DIOXIN FURANS	<input 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	<input type="checkbox"/> PESTICIDES/POLYCHLORINATED BIPHENYLS

☐ OTHER (DESCRIBE): _____

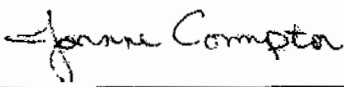
Section II. Completeness Check


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

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


- The aqueous and soil MS/MSD %R calculations were performed incorrectly. The parent sample result was < the MDL and, thus, a result of 0 ug/L or 0 ug/kg should have been used to calculate the %Rs. The laboratory subtracted the parent sample concentrations. The %Rs were within the acceptance limit when calculated correctly. The aqueous MS/MSD were performed on a sample from another LANL RN and the raw data for the parent samples were not present in the data package. No sample results were qualified as a result.

Reviewed by: Mary Donovan Level: I Date: 04/27/10


VALIDATOR'S SIGNATURE: <u></u>	DATE: <u>04/26/10</u>
Form 5121-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

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

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The ICV and/or CCV were recovered outside the method limits.	UJ, R, PERC7c	J, PERC7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, R, PERC7d	J, PERC7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, PERC7f	R, PERC7f
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. The affected analyte is considered not detected because ion abundance ratios did not meet specifications.	N/A	R, PERC8
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. The ion ratio documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	N/A	R, PERC8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ PERC9	J-, PERC9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. The holding time was > 2 times the applicable holding time requirement.	R, PERC9a	J-, PERC9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20. The LCS percent recovery was <10%. Follow the external laboratory limits.	R, PERC12	J-, PERC12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory limits.	UJ, PERC12a	J-, PERC12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. The LCS percent recovery was > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, PERC12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PERC12c	R, PERC12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. The MS/MSD percent recovery was <10%	R, PERC12d	R, PERC12d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The MS/MSD percent recovery was >10% but <75%	UJ, PERC12e	J, PERC12e
<input 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	
5121-2 LC/MS/MS Perchlorate Analytical Data Validation Checklist	Records Use only 

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: WATER

Extraction Batch ID: 959046

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

RE36-10-8493

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138

GEL Sample ID: 248245001

Date Filtered: 05-MAR-10

Injection Volume (uL): 20

%Solids:

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	09-MAR-10 11:43	per0308133a
	Perchlorate Isotope Ratio						1	09-MAR-10 11:43	per0308133a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 11:43	per0308133a
	Perchlorate-Q(18)			0.470	ug/L		1	09-MAR-10 11:43	per0308133a

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

*Concentration =

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

JCC
04/26/10

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: 959025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8464

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 248247001

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 90.5

CAS No.	Analyte [^]	MDL	RL	Conc [*]	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.553	2.21	0.553	ug/kg	U	1	18-MAR-10 03:49	per0317120a
	Perchlorate Isotope Ratio						1	18-MAR-10 03:49	per0317120a
14797-73-0	Perchlorate-101	.553	2.21	0.553	ug/kg	U	1	18-MAR-10 03:49	per0317120a
	Perchlorate-O(18)			5.15	ug/kg		1	18-MAR-10 03:49	per0317120a

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

*Concentration =

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

JCC
04/26/10

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: 959025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8475

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 248247002

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 91.2

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.548	2.19	0.811	ug/kg	J	1	18-MAR-10 20:25	per0318041a
	Perchlorate Isotope Ratio			2.96			1	18-MAR-10 20:25	per0318041a
14797-73-0	Perchlorate-101	.548	2.19	0.856	ug/kg	J	1	18-MAR-10 20:25	per0318041a
	Perchlorate-O(18)			5.73	ug/kg		1	18-MAR-10 20:25	per0318041a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

JCC
04/26/10

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: 959025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8471

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 248247003

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

% Solids: 82

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.565	2.26	0.565	ug/kg	U	1	18-MAR-10 20:33	per0318042a
	Perchlorate Isotope Ratio						1	18-MAR-10 20:33	per0318042a
14797-73-0	Perchlorate-101	.565	2.26	0.565	ug/kg	U	1	18-MAR-10 20:33	per0318042a
	Perchlorate-O(18)			5.78	ug/kg		1	18-MAR-10 20:33	per0318042a

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

*Concentration =

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

JCC
04/26/10

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: 959025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8485

Date Received: 27-FEB-10

GEL Job No (SDC): 10-2138-1

GEL Sample ID: 248247004

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

% Solids: 77

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.653	2.61	2.29	ug/kg	J	1	18-MAR-10 20:40	per0318043a
	Perchlorate Isotope Ratio			3.26			1	18-MAR-10 20:40	per0318043a
14797-73-0	Perchlorate-101	.653	2.61	2.19	ug/kg	J	1	18-MAR-10 20:40	per0318043a
	Perchlorate-O(18)			7.96	ug/kg		1	18-MAR-10 20:40	per0318043a

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

*Concentration =

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

JCC
04/26/10

Form I

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 959025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8477

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 248247005

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 87

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.574	2.29	0.574	ug/kg	U	1	18-MAR-10 20:48	per0318044a
	Perchlorate Isotope Ratio						1	18-MAR-10 20:48	per0318044a
14797-73-0	Perchlorate-101	.574	2.29	0.574	ug/kg	U	1	18-MAR-10 20:48	per0318044a
	Perchlorate-O(18)			6.66	ug/kg		1	18-MAR-10 20:48	per0318044a

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

*Concentration =

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

JCC
04/26/10

Form I

P perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 259025

Extraction Type: Solid Prep

Client Sample No.

RE36-10-8479

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 248247006

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 90

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.557	2.23	0.631	ug/kg	J	1	18-MAR-10 20:56	per0318045a
	Perchlorate Isotope Ratio			2.73			1	18-MAR-10 20:56	per0318045a
14797-73-0	Perchlorate-101	.557	2.23	0.724	ug/kg	J	1	18-MAR-10 20:56	per0318045a
	Perchlorate-O(18)			6.85	ug/kg		1	18-MAR-10 20:56	per0318045a

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

*Concentration =

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

JCC
04/26/10

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: 259025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8484

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 248247007

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 84

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.597	2.39	0.796	ug/kg	J	1	18-MAR-10 21:03	per0318046a
	Perchlorate Isotope Ratio			3.38			1	18-MAR-10 21:03	per0318046a
14797-73-0	Perchlorate-101	.597	2.39	0.737	ug/kg	J	1	18-MAR-10 21:03	per0318046a
	Perchlorate-Q(18)			7.32	ug/kg		1	18-MAR-10 21:03	per0318046a

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

*Concentration =

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

JCC
04/26/10

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: 959025
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-8481
 Date Received: 27-FEB-10
 GEL Job No (SDG): 10-2138-1
 GEL Sample ID: 248247008
 Date Filtered: 10-MAR-10
 Injection Volume (uL): 20
 %Solids: 89

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.563	2.25	0.683	ug/kg	J	1	18-MAR-10 21:11	per0318047a
	Perchlorate Isotope Ratio			2.69			1	18-MAR-10 21:11	per0318047a
14797-73-0	Perchlorate-101	.563	2.25	0.793	ug/kg	J	1	18-MAR-10 21:11	per0318047a
	Perchlorate-O(18)			6.55	ug/kg		1	18-MAR-10 21:11	per0318047a

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

*Concentration =

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

JCC
04/26/10

DATA VALIDATION COVER SHEET

5118-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-2138 VALIDATION DATE: 04/26/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

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

ANALYTICAL SUITE (CHECK ALL THAT APPLY):


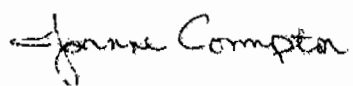
- | | | | |
|--|--|---|---|
| <input type="checkbox"/> TPH-GRO | <input type="checkbox"/> HIGH EXPLOSIVES | <input type="checkbox"/> DIOXIN FURANS | <input type="checkbox"/> LCMSMS PERCHLORATES |
| <input type="checkbox"/> TPH-DRO | <input checked="" type="checkbox"/> METALS | <input type="checkbox"/>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


Section II. Completeness Check

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


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

- In the aqueous MB, Pb was detected. The associated sample result was a detect $\leq 5X$ the MB concentration and, thus, was qualified U,I4.
In the soil MB, Fe and Na were detected. The Na result for all samples except RE36-10-8485 and -8484 were detects $>5X$ but $\leq 50X$ the MB concentration and, thus, were qualified J,I4a. The remaining associated sample results were detects $> 50X$ the MB concentrations and, thus, were not qualified based on professional judgment
- In the aqueous CCBs, Tl and K were detected. The associated sample result for K was a detect $\leq 5X$ the greatest associated blank concentration and, thus, was qualified U,I4b. The associated Tl sample result was an ND and, thus, was not qualified.
In the soil CCBs K and Na were detected. The associated samples results were $>5X$ the greatest associated blank concentration and, thus, were not qualified.
- In the FR blank, sample RE36-10-8493, associated with all soil samples, Cd, Ca, Fe, and Na were detected. The associated sample results were all detects $>5X$ the FR blank concentrations and, thus, were not qualified.
- The soil LCS %R for Sb was $<$ the laboratory LAL but $\geq 10\%$. The associated sample results were NDs and, thus, were qualified UJ, I12a.
- The soil MS %Rs for Ca, Pb, Mg, and K were $>$ the laboratory UAL. The associated sample results were detects and, thus, were qualified J+,I6b. The soil MS %Rs were also $>$ the laboratory UAL for Al and Fe and $<$ the LAL for Mn. However, the associated parent sample results were detects $>$ than $4X$ the spike amount and, thus, no sample results were qualified based on professional judgment.


DATA VALIDATION COVER SHEET	
5118-1	Records Use only
Data Validation Cover Sheet	
	
<p>It should be noted that the matrix QC for the aqueous ICP-AES, ICP-MS, and Hg analyses as well as the soil Hg analysis were performed on samples from other LANL RNs and that the parent sample raw data were not included in the data package. No sample data were qualified as a result.</p> <p>6. The soil duplicate RPD was >35% and the parent and duplicate sample results were $\geq 5X$ the PQLs for Hg and Ca. The associated sample results were detects and, thus, were qualified J,I10a.</p> <p>Reviewed by: <u>Mary Donivan</u> Level: <u>I</u> Date: <u>04/27/10</u></p>	
<p>VALIDATOR'S SIGNATURE: <u></u> DATE: <u>04/26/10</u></p>	
Form 5118-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

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


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

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

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

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

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	29. The LCS percent recover was $<$ the LAL but $>10\%$. Follow the external laboratory limits located within the associated data package.	UJ, I12a	J-, I12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The LCS percent recovery was $>$ the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, I12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. Do not Reject if MS/MSD information is present. Qualify according to MS/MSD criteria.	R, I12c	R, I12c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	32. The quantitating IS area count is $<10\%$ for metals window in relation to the initial calibration blank. Follow the method-specific windows.	R, I1a	J, I1a

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

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

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2138

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248245001

BASIS: As Received

DATE COLLECTED 24-FEB-10

CLIENT ID: RE36-10-8493

LEVEL: Low

DATE RECEIVED 27-FEB-10

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	200	ug/L	U	68	200	200	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	PRB	04/13/10 12:16	100413-3	959143
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BCD1	04/12/10 07:39	100411-2	959143
7440-43-9	Cadmium	0.273	ug/L	J	0.11	1	1	1	MS	BCD1	04/12/10 07:39	100411-2	959143
7440-70-2	Calcium	53	ug/L	J	50	200	200	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	03/31/10 09:41	033110A-1	959141
7439-89-6	Iron	52.2	ug/L	J	30	100	100	1	P	HSC	03/31/10 09:41	033110A-1	959141
7439-92-1	Lead	U,14	ug/L	J	0.5	2	2	1	MS	BCD1	04/12/10 07:39	100411-2	959143
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	03/31/10 09:41	033110A-1	959141
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	BCD1	04/12/10 07:39	100411-2	959143
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	03/02/10 12:41	030210W3-6	958969
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-09-7	Potassium	U,14b	ug/L	J	50	150	150	1	P	HSC	03/31/10 09:41	033110A-1	959141
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-23-5	Sodium	157	ug/L	J	100	300	300	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	BCD1	04/12/10 07:39	100411-2	959143
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	PRB	04/13/10 15:34	100413-5	959143
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	03/31/10 09:41	033110A-1	959141

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958969	958967	SW846 7470A Prep	20	mL	20	mL	03/01/10	TXB3
959141	959140	SW846 3005A	50	mL	50	mL	03/11/10	LYH1
959143	959142	SW846 3005A	50	mL	50	mL	03/11/10	LYH1

JCC
04/26/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2138-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248247001

BASIS: Dry Weight

DATE COLLECTED 24-FEB-10

CLIENT ID: RE36-10-8464

LEVEL: Low

DATE RECEIVED 27-FEB-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	3680000	ug/Kg		7160	21100	21100	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-36-0	Antimony UJ,112a	1050	ug/Kg	U	347	1050	1050	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-38-2	Arsenic	1.16	mg/kg		0.207	1.03	1.03	2	MS	SKJ	04/13/10 23:18	100413-2	959152
7440-39-3	Barium	43700	ug/Kg		105	526	526	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-41-7	Beryllium	0.561	mg/kg		0.0207	0.103	0.103	2	MS	SKJ	04/13/10 23:18	100413-2	959152
7440-43-9	Cadmium	526	ug/Kg	U	105	526	526	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-70-2	Calcium J+,16b	1410000	ug/Kg	*N	8420	26300	26300	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-47-3	Chromium	8370	ug/Kg		158	526	526	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-48-4	Cobalt	6750	ug/Kg		158	526	526	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-50-8	Copper	5360	ug/Kg		316	1050	1050	1	P	HSC	04/01/10 05:12	033110B-1	959150
7439-89-6	Iron	9910000	ug/Kg		8420	26300	26300	1	P	HSC	04/01/10 05:12	033110B-1	959150
7439-92-1	Lead J+,16b	7580	ug/Kg	*N	263	1050	1050	1	P	HSC	04/01/10 05:12	033110B-1	959150
7439-95-4	Magnesium J+,16b	692000	ug/Kg	N	8950	31600	31600	1	P	HSC	04/01/10 05:12	033110B-1	959150
7439-96-5	Manganese	331000	ug/Kg		211	1050	1050	1	P	HSC	04/01/10 05:12	033110B-1	959150
7439-97-6	Mercury J,110a	30.6	ug/kg		4.47	13.2	13.2	1	AV	JXL1	03/17/10 10:49	031710S2-5	958993
7440-02-0	Nickel	4.04	mg/kg		0.103	0.413	0.413	2	MS	SKJ	04/13/10 23:18	100413-2	959152
7440-09-7	Potassium J+,16b	612000	ug/Kg	N	6740	26300	26300	1	P	HSC	04/01/10 05:12	033110B-1	959150
7782-49-2	Selenium	1.03	mg/kg	U	0.517	1.03	1.03	2	MS	SKJ	04/13/10 23:18	100413-2	959152
7440-22-4	Silver	526	ug/Kg	U	105	526	526	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-23-5	Sodium J,14a	251000	ug/Kg		7370	26300	26300	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-28-0	Thallium	0.207	mg/kg	U	0.062	0.207	0.207	2	MS	SKJ	04/13/10 23:18	100413-2	959152
7440-61-1	Uranium	0.550	mg/kg		0.0136	0.0413	0.0413	2	MS	SKJ	04/13/10 23:18	100413-2	959152
7440-62-2	Vanadium	7540	ug/Kg		105	526	526	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-66-6	Zinc	45400	ug/Kg		347	1050	1050	1	P	HSC	04/01/10 05:12	033110B-1	959150

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958993	958991	SW846 7471A Prep	0.504	g	30	mL	03/16/10	TXB3
959150	959149	SW846 3050B	0.525	g	50	mL	03/17/10	LYH1
959152	959151	SW846 3050B	0.535	g	50	mL	03/11/10	LYH1

JCC
04/26/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2138-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248247002

BASIS: Dry Weight

DATE COLLECTED 24-FEB-10

CLIENT ID: RE36-10-8475

LEVEL: Low

DATE RECEIVED 27-FEB-10

MATRIX: SOIL

%SOLIDS: 91.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2650000	ug/Kg		7260	21300	21300	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-36-0	Antimony UJ,112a	1070	ug/Kg	U	352	1070	1070	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-38-2	Arsenic	2.2	mg/kg		0.211	1.05	1.05	2	MS	SKJ	04/13/10 23:38	100413-2	959152
7440-39-3	Barium	20800	ug/Kg		107	534	534	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-41-7	Beryllium	0.499	mg/kg		0.0211	0.105	0.105	2	MS	SKJ	04/13/10 23:38	100413-2	959152
7440-43-9	Cadmium	534	ug/Kg	U	107	534	534	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-70-2	Calcium J+,16b	656000	ug/Kg	*N	8540	26700	26700	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-47-3	Chromium	13400	ug/Kg		160	534	534	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-48-4	Cobalt	1340	ug/Kg		160	534	534	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-50-8	Copper	4400	ug/Kg		320	1070	1070	1	P	HSC	04/01/10 05:21	033110B-1	959150
7439-89-6	Iron	8670000	ug/Kg		8540	26700	26700	1	P	HSC	04/01/10 05:21	033110B-1	959150
7439-92-1	Lead J+,16b	5430	ug/Kg	*N	267	1070	1070	1	P	HSC	04/01/10 05:21	033110B-1	959150
7439-95-4	Magnesium J+,16b	572000	ug/Kg	N	9070	32000	32000	1	P	HSC	04/01/10 05:21	033110B-1	959150
7439-96-5	Manganese	191000	ug/Kg		213	1070	1070	1	P	HSC	04/01/10 05:21	033110B-1	959150
7439-97-6	Mercury J,110a	52.4	ug/kg		4.04	11.9	11.9	1	AV	JXL1	03/17/10 10:50	031710S2-5	958993
7440-02-0	Nickel	2.52	mg/kg		0.105	0.421	0.421	2	MS	SKJ	04/13/10 23:38	100413-2	959152
7440-09-7	Potassium J+,16b	491000	ug/Kg	N	6830	26700	26700	1	P	HSC	04/01/10 05:21	033110B-1	959150
7782-49-2	Selenium	1.05	mg/kg	U	0.526	1.05	1.05	2	MS	SKJ	04/13/10 23:38	100413-2	959152
7440-22-4	Silver	534	ug/Kg	U	107	534	534	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-23-5	Sodium J,14a	134000	ug/Kg		7470	26700	26700	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-28-0	Thallium	0.211	mg/kg	U	0.0632	0.211	0.211	2	MS	SKJ	04/13/10 23:38	100413-2	959152
7440-61-1	Uranium	0.723	mg/kg		0.0139	0.0421	0.0421	2	MS	SKJ	04/13/10 23:38	100413-2	959152
7440-62-2	Vanadium	6230	ug/Kg		107	534	534	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-66-6	Zinc	47400	ug/Kg		352	1070	1070	1	P	HSC	04/01/10 05:21	033110B-1	959150

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958993	958991	SW846 7471A Prep	0.554	g	30	mL	03/16/10	TXB3
959150	959149	SW846 3050B	0.514	g	50	mL	03/11/10	LYH1
959152	959151	SW846 3050B	0.521	g	50	mL	03/11/10	LYH1

JCC
04/26/10

METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2138-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248247003

BASIS: Dry Weight

DATE COLLECTED 24-FEB-10

CLIENT ID: RE36-10-8471

LEVEL: Low

DATE RECEIVED 27-FEB-10

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2590000	ug/Kg		7360	21600	21600	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-36-0	Antimony UJ,12a	1080	ug/Kg	U	357	1080	1080	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-38-2	Arsenic	0.750	mg/kg	J	0.219	1.09	1.09	2	MS	SKJ	04/13/10 23:42	100413-2	959152
7440-39-3	Barium	25700	ug/Kg		108	541	541	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-41-7	Beryllium	0.463	mg/kg		0.0219	0.109	0.109	2	MS	SKJ	04/13/10 23:42	100413-2	959152
7440-43-9	Cadmium	541	ug/Kg	U	108	541	541	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-70-2	Calcium J+,16b	554000	ug/Kg	*N	8660	27100	27100	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-47-3	Chromium	59100	ug/Kg		162	541	541	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-48-4	Cobalt	4060	ug/Kg		162	541	541	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-50-8	Copper	3660	ug/Kg		325	1080	1080	1	P	HSC	04/01/10 05:23	033110B-1	959150
7439-89-6	Iron	8980000	ug/Kg		8660	27100	27100	1	P	HSC	04/01/10 05:23	033110B-1	959150
7439-92-1	Lead J+,16b	4070	ug/Kg	*N	271	1080	1080	1	P	HSC	04/01/10 05:23	033110B-1	959150
7439-95-4	Magnesium J+,16b	469000	ug/Kg	N	9200	32500	32500	1	P	HSC	04/01/10 05:23	033110B-1	959150
7439-96-5	Manganese	300000	ug/Kg		216	1080	1080	1	P	HSC	04/01/10 05:23	033110B-1	959150
7439-97-6	Mercury J,110a	9.5	ug/kg	J	4.22	12.4	12.4	1	AV	JXL1	03/17/10 10:52	031710S2-5	958993
7440-02-0	Nickel	5.72	mg/kg		0.109	0.437	0.437	2	MS	SKJ	04/13/10 23:42	100413-2	959152
7440-09-7	Potassium J+,16b	517000	ug/Kg	N	6930	27100	27100	1	P	HSC	04/01/10 05:23	033110B-1	959150
7782-49-2	Selenium	1.09	mg/kg	U	0.546	1.09	1.09	2	MS	SKJ	04/13/10 23:42	100413-2	959152
7440-22-4	Silver	541	ug/Kg	U	108	541	541	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-23-5	Sodium J,14a	239000	ug/Kg		7570	27100	27100	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-28-0	Thallium	0.219	mg/kg	U	0.0656	0.219	0.219	2	MS	SKJ	04/13/10 23:42	100413-2	959152
7440-61-1	Uranium	0.581	mg/kg		0.0144	0.0437	0.0437	2	MS	SKJ	04/13/10 23:42	100413-2	959152
7440-62-2	Vanadium	4480	ug/Kg		108	541	541	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-66-6	Zinc	46600	ug/Kg		357	1080	1080	1	P	HSC	04/01/10 05:23	033110B-1	959150

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958993	958991	SW846 7471A Prep	0.546	g	30	mL	03/16/10	TXB3
959150	959149	SW846 3050B	0.522	g	50	mL	03/11/10	LYH1
959152	959151	SW846 3050B	0.517	g	50	mL	03/11/10	LYH1

JCC
04/26/10

METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2138-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248247004

BASIS: Dry Weight

DATE COLLECTED 24-FEB-10

CLIENT ID: RE36-10-8485

LEVEL: Low

DATE RECEIVED 27-FEB-10

MATRIX: SOIL

%SOLIDS: 77

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	19900000	ug/Kg		8760	25800	25800	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-36-0	Antimony UJ,112a	1290	ug/Kg	U	425	1290	1290	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-38-2	Arsenic	3.82	mg/kg		0.256	1.28	1.28	2	MS	SKJ	04/13/10 23:55	100413-2	959152
7440-39-3	Barium	104000	ug/Kg		129	644	644	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-41-7	Beryllium	5.57	mg/kg		0.128	0.641	0.641	10	MS	SKJ	04/14/10 10:32	100413-4	959152
7440-43-9	Cadmium	644	ug/Kg	U	129	644	644	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-70-2	Calcium J+,16b	4260000	ug/Kg	*N	10300	32200	32200	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-47-3	Chromium	42100	ug/Kg		193	644	644	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-48-4	Cobalt	4070	ug/Kg		193	644	644	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-50-8	Copper	12300	ug/Kg		387	1290	1290	1	P	HSC	04/01/10 05:30	033110B-1	959150
7439-89-6	Iron	19000000	ug/Kg		10300	32200	32200	1	P	HSC	04/01/10 05:30	033110B-1	959150
7439-92-1	Lead J+,16b	13000	ug/Kg	*N	322	1290	1290	1	P	HSC	04/01/10 05:30	033110B-1	959150
7439-95-4	Magnesium J+,16b	3800000	ug/Kg	N	11000	38700	38700	1	P	HSC	04/01/10 05:30	033110B-1	959150
7439-96-5	Manganese	256000	ug/Kg		258	1290	1290	1	P	HSC	04/01/10 05:30	033110B-1	959150
7439-97-6	Mercury J,110a	53.5	ug/kg		4.78	14.1	14.1	1	AV	JXL1	03/17/10 10:57	031710S2-5	958993
7440-02-0	Nickel	39.9	mg/kg		0.641	2.56	2.56	10	MS	SKJ	04/14/10 10:32	100413-4	959152
7440-09-7	Potassium J+,16b	2220000	ug/Kg	N	8250	32200	32200	1	P	HSC	04/01/10 05:30	033110B-1	959150
7782-49-2	Selenium	1.28	mg/kg	U	0.641	1.28	1.28	2	MS	SKJ	04/13/10 23:55	100413-2	959152
7440-22-4	Silver	644	ug/Kg	U	129	644	644	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-23-5	Sodium	1300000	ug/Kg		9020	32200	32200	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-28-0	Thallium	0.218	mg/kg	J	0.0769	0.256	0.256	2	MS	SKJ	04/13/10 23:55	100413-2	959152
7440-61-1	Uranium	0.884	mg/kg		0.0169	0.0512	0.0512	2	MS	SKJ	04/13/10 23:55	100413-2	959152
7440-62-2	Vanadium	26100	ug/Kg		129	644	644	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-66-6	Zinc	50500	ug/Kg		425	1290	1290	1	P	HSC	04/01/10 05:30	033110B-1	959150

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958993	958991	SW846 7471A Prep	0.558	g	30	mL	03/16/10	TXB3
959150	959149	SW846 3050B	0.507	g	50	mL	03/11/10	LYH1
959152	959151	SW846 3050B	0.51	g	50	mL	03/11/10	LYH1

JCC
04/26/10

METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2138-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248247005

BASIS: Dry Weight

DATE COLLECTED 24-FEB-10

CLIENT ID: RE36-10-8477

LEVEL: Low

DATE RECEIVED 27-FEB-10

MATRIX: SOIL

%SOLIDS: 87

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		7460	21900	21900	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-36-0	Antimony UJ,112a	1100	ug/Kg	U	362	1100	1100	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-38-2	Arsenic	1.04	mg/kg	J	0.214	1.07	1.07	2	MS	SKJ	04/13/10 23:59	100413-2	959152
7440-39-3	Barium	31200	ug/Kg		110	548	548	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-41-7	Beryllium	0.567	mg/kg		0.0214	0.107	0.107	2	MS	SKJ	04/13/10 23:59	100413-2	959152
7440-43-9	Cadmium	548	ug/Kg	U	110	548	548	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-70-2	Calcium J+,16b	959000	ug/Kg	*N	8780	27400	27400	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-47-3	Chromium	13300	ug/Kg		165	548	548	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-48-4	Cobalt	1540	ug/Kg		165	548	548	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-50-8	Copper	2930	ug/Kg		329	1100	1100	1	P	HSC	04/01/10 05:32	033110B-1	959150
7439-89-6	Iron	9340000	ug/Kg		8780	27400	27400	1	P	HSC	04/01/10 05:32	033110B-1	959150
7439-92-1	Lead J+,16b	6350	ug/Kg	*N	274	1100	1100	1	P	HSC	04/01/10 05:32	033110B-1	959150
7439-95-4	Magnesium J+,16b	928000	ug/Kg	N	9320	32900	32900	1	P	HSC	04/01/10 05:32	033110B-1	959150
7439-96-5	Manganese	242000	ug/Kg		219	1100	1100	1	P	HSC	04/01/10 05:32	033110B-1	959150
7439-97-6	Mercury J,110a	7.85	ug/kg	J	4.68	13.8	13.8	1	AV	JXL1	03/17/10 10:59	031710S2-5	958993
7440-02-0	Nickel	3.72	mg/kg		0.107	0.427	0.427	2	MS	SKJ	04/13/10 23:59	100413-2	959152
7440-09-7	Potassium J+,16b	666000	ug/Kg	N	7020	27400	27400	1	P	HSC	04/01/10 05:32	033110B-1	959150
7782-49-2	Selenium	1.07	mg/kg	U	0.534	1.07	1.07	2	MS	SKJ	04/13/10 23:59	100413-2	959152
7440-22-4	Silver	548	ug/Kg	U	110	548	548	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-23-5	Sodium J,14a	165000	ug/Kg		7680	27400	27400	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-28-0	Thallium	0.214	mg/kg	U	0.0641	0.214	0.214	2	MS	SKJ	04/13/10 23:59	100413-2	959152
7440-61-1	Uranium	0.685	mg/kg		0.0141	0.0427	0.0427	2	MS	SKJ	04/13/10 23:59	100413-2	959152
7440-62-2	Vanadium	7870	ug/Kg		110	548	548	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-66-6	Zinc	49100	ug/Kg		362	1100	1100	1	P	HSC	04/01/10 05:32	033110B-1	959150

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958993	958991	SW846 7471A Prep	0.5	g	30	mL	03/16/10	TXB3
959150	959149	SW846 3050B	0.523	g	50	mL	03/11/10	LYH1
959152	959151	SW846 3050B	0.537	g	50	mL	03/11/10	LYH1

JCC
04/26/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2138-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248247006

BASIS: Dry Weight

DATE COLLECTED 24-FEB-10

CLIENT ID: RE36-10-8479

LEVEL: Low

DATE RECEIVED 27-FEB-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	5240000	ug/Kg		7280	21400	21400	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-36-0	Antimony UJ,112a	1070	ug/Kg	U	353	1070	1070	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-38-2	Arsenic	1.48	mg/kg		0.206	1.03	1.03	2	MS	SKJ	04/14/10 00:03	100413-2	959152
7440-39-3	Barium	40000	ug/Kg		107	536	536	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-41-7	Beryllium	0.586	mg/kg		0.0206	0.103	0.103	2	MS	SKJ	04/14/10 00:03	100413-2	959152
7440-43-9	Cadmium	536	ug/Kg	U	107	536	536	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-70-2	Calcium J+,16b	1380000	ug/Kg	*N	8570	26800	26800	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-47-3	Chromium	5980	ug/Kg		161	536	536	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-48-4	Cobalt	1620	ug/Kg		161	536	536	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-50-8	Copper	3620	ug/Kg		321	1070	1070	1	P	HSC	04/01/10 05:34	033110B-1	959150
7439-89-6	Iron	9250000	ug/Kg		8570	26800	26800	1	P	HSC	04/01/10 05:34	033110B-1	959150
7439-92-1	Lead J+,16b	6690	ug/Kg	*N	268	1070	1070	1	P	HSC	04/01/10 05:34	033110B-1	959150
7439-95-4	Magnesium J+,16b	967000	ug/Kg	N	9100	32100	32100	1	P	HSC	04/01/10 05:34	033110B-1	959150
7439-96-5	Manganese	234000	ug/Kg		214	1070	1070	1	P	HSC	04/01/10 05:34	033110B-1	959150
7439-97-6	Mercury J,110a	15.8	ug/kg		4.31	12.7	12.7	1	AV	JXL1	03/17/10 11:00	031710S2-5	958993
7440-02-0	Nickel	3.1	mg/kg		0.103	0.412	0.412	2	MS	SKJ	04/14/10 00:03	100413-2	959152
7440-09-7	Potassium J+,16b	741000	ug/Kg	N	6860	26800	26800	1	P	HSC	04/01/10 05:34	033110B-1	959150
7782-49-2	Selenium	1.03	mg/kg	U	0.515	1.03	1.03	2	MS	SKJ	04/14/10 00:03	100413-2	959152
7440-22-4	Silver	536	ug/Kg	U	107	536	536	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-23-5	Sodium J,14a	132000	ug/Kg		7500	26800	26800	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-28-0	Thallium	0.206	mg/kg	U	0.0618	0.206	0.206	2	MS	SKJ	04/14/10 00:03	100413-2	959152
7440-61-1	Uranium	0.586	mg/kg		0.0136	0.0412	0.0412	2	MS	SKJ	04/14/10 00:03	100413-2	959152
7440-62-2	Vanadium	7620	ug/Kg		107	536	536	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-66-6	Zinc	41200	ug/Kg		353	1070	1070	1	P	HSC	04/01/10 05:34	033110B-1	959150

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958993	958991	SW846 7471A Prep	0.527	g	30	mL	03/16/10	TXB3
959150	959149	SW846 3050B	0.52	g	50	mL	03/11/10	LYH1
959152	959151	SW846 3050B	0.541	g	50	mL	03/11/10	LYH1

JCC
04/26/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2138-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248247007

BASIS: Dry Weight

DATE COLLECTED 24-FEB-10

CLIENT ID: RE36-10-8484

LEVEL: Low

DATE RECEIVED 27-FEB-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	7260000	ug/Kg		8040	23600	23600	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-36-0	Antimony UJ,112a	1180	ug/Kg	U	390	1180	1180	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-38-2	Arsenic	1.37	mg/kg		0.222	1.11	1.11	2	MS	SKJ	04/14/10 00:07	100413-2	959152
7440-39-3	Barium	44600	ug/Kg		118	591	591	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-41-7	Beryllium	0.689	mg/kg		0.0222	0.111	0.111	2	MS	SKJ	04/14/10 00:07	100413-2	959152
7440-43-9	Cadmium	591	ug/Kg	U	118	591	591	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-70-2	Calcium J+,16b	1380000	ug/Kg	*N	9450	29500	29500	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-47-3	Chromium	27100	ug/Kg		177	591	591	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-48-4	Cobalt	2210	ug/Kg		177	591	591	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-50-8	Copper	4430	ug/Kg		354	1180	1180	1	P	HSC	04/01/10 05:36	033110B-1	959150
7439-89-6	Iron	10700000	ug/Kg		9450	29500	29500	1	P	HSC	04/01/10 05:36	033110B-1	959150
7439-92-1	Lead J+,16b	7170	ug/Kg	*N	295	1180	1180	1	P	HSC	04/01/10 05:36	033110B-1	959150
7439-95-4	Magnesium J+,16b	1210000	ug/Kg	N	10000	35400	35400	1	P	HSC	04/01/10 05:36	033110B-1	959150
7439-96-5	Manganese	281000	ug/Kg		236	1180	1180	1	P	HSC	04/01/10 05:36	033110B-1	959150
7439-97-6	Mercury J,110a	17.5	ug/kg		4.56	13.4	13.4	1	AV	JXL1	03/17/10 11:02	031710S2-5	958993
7440-02-0	Nickel	6.48	mg/kg		0.111	0.444	0.444	2	MS	SKJ	04/14/10 00:07	100413-2	959152
7440-09-7	Potassium J+,16b	865000	ug/Kg	N	7560	29500	29500	1	P	HSC	04/01/10 05:36	033110B-1	959150
7782-49-2	Selenium	1.11	mg/kg	U	0.556	1.11	1.11	2	MS	SKJ	04/14/10 00:07	100413-2	959152
7440-22-4	Silver	591	ug/Kg	U	118	591	591	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-23-5	Sodium	924000	ug/Kg		8270	29500	29500	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-28-0	Thallium	0.222	mg/kg	U	0.0667	0.222	0.222	2	MS	SKJ	04/14/10 00:07	100413-2	959152
7440-61-1	Uranium	0.679	mg/kg		0.0147	0.0444	0.0444	2	MS	SKJ	04/14/10 00:07	100413-2	959152
7440-62-2	Vanadium	11000	ug/Kg		118	591	591	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-66-6	Zinc	41500	ug/Kg		390	1180	1180	1	P	HSC	04/01/10 05:36	033110B-1	959150

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958993	958991	SW846 7471A Prep	0.534	g	30	mL	03/16/10	TXB3
959150	959149	SW846 3050B	0.505	g	50	mL	03/11/10	LYHI
959152	959151	SW846 3050B	0.537	g	50	mL	03/11/10	LYHI

JCC
04/26/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2138-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248247008

BASIS: Dry Weight

DATE COLLECTED 24-FEB-10

CLIENT ID: RE36-10-8481

LEVEL: Low

DATE RECEIVED 27-FEB-10

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5920000	ug/Kg		7470	22000	22000	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-36-0	Antimony UJ,112a	1100	ug/Kg	U	362	1100	1100	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-38-2	Arsenic	1.49	mg/kg		0.22	1.1	1.1	2	MS	SKJ	04/14/10 00:11	100413-2	959152
7440-39-3	Barium	45900	ug/Kg		110	549	549	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-41-7	Beryllium	0.797	mg/kg		0.022	0.11	0.11	2	MS	SKJ	04/14/10 00:11	100413-2	959152
7440-43-9	Cadmium	549	ug/Kg	U	110	549	549	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-70-2	Calcium J+,16b	1710000	ug/Kg	*N	8790	27500	27500	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-47-3	Chromium	10800	ug/Kg		165	549	549	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-48-4	Cobalt	1710	ug/Kg		165	549	549	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-50-8	Copper	4120	ug/Kg		329	1100	1100	1	P	HSC	04/01/10 05:38	033110B-1	959150
7439-89-6	Iron	10200000	ug/Kg		8790	27500	27500	1	P	HSC	04/01/10 05:38	033110B-1	959150
7439-92-1	Lead J+,16b	7490	ug/Kg	*N	275	1100	1100	1	P	HSC	04/01/10 05:38	033110B-1	959150
7439-95-4	Magnesium J+,16b	1120000	ug/Kg	N	9330	32900	32900	1	P	HSC	04/01/10 05:38	033110B-1	959150
7439-96-5	Manganese	240000	ug/Kg		220	1100	1100	1	P	HSC	04/01/10 05:38	033110B-1	959150
7439-97-6	Mercury J,110a	17.2	ug/kg		4.11	12.1	12.1	1	AV	JXL1	03/17/10 11:04	031710S2-5	958993
7440-02-0	Nickel	4.42	mg/kg		0.11	0.44	0.44	2	MS	SKJ	04/14/10 00:11	100413-2	959152
7440-09-7	Potassium J+,16b	867000	ug/Kg	N	7030	27500	27500	1	P	HSC	04/01/10 05:38	033110B-1	959150
7782-49-2	Selenium	1.1	mg/kg	U	0.55	1.1	1.1	2	MS	SKJ	04/14/10 00:11	100413-2	959152
7440-22-4	Silver	549	ug/Kg	U	110	549	549	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-23-5	Sodium J,14a	131000	ug/Kg		7690	27500	27500	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-28-0	Thallium	0.220	mg/kg	U	0.066	0.22	0.22	2	MS	SKJ	04/14/10 00:11	100413-2	959152
7440-61-1	Uranium	0.725	mg/kg		0.0145	0.044	0.044	2	MS	SKJ	04/14/10 00:11	100413-2	959152
7440-62-2	Vanadium	8630	ug/Kg		110	549	549	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-66-6	Zinc	51000	ug/Kg		362	1100	1100	1	P	HSC	04/01/10 05:38	033110B-1	959150

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958993	958991	SW846 7471A Prep	0.559	g	30	mL	03/16/10	TXB3
959150	959149	SW846 3050B	0.513	g	50	mL	03/11/10	LYH1
959152	959151	SW846 3050B	0.512	g	50	mL	03/11/10	LYH1

JCC
04/26/10

DATA VALIDATION COVER SHEET

5120-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-2138 VALIDATION DATE: 04/26/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

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

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

Section II. Completeness Check

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

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

1. It should be noted that the matrix QC for all analyses except for the soil nitrate analysis were performed on samples from other LANL RNs. No sample data were qualified as a result.

Reviewed by: Mary Donovan


Level: I

Date: 04/27/10


VALIDATOR'S SIGNATURE:

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


DATE: 04/26/10

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

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, I9	J-, I9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, I9a	J-, I9a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, I9b	R, I9b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, R, I7	J, I7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.995.	UJ, I7a	J, I7a
<input 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	
5120-2	Records Use only
General Chemistry Analytical Data Validation Checklist	

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5X.	N/A	J, I4a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. The sample result is ≤5X the concentration of the related analyte in the instrument blank and continuing calibration blank.	U, I4b	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. Continuing calibration blanks were not analyzed at the appropriate method frequency.	UJ, I4c	J, I4c
<input type="checkbox"/>	<input 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	
5120-2 General Chemistry Analytical Data Validation Checklist	Records Use only 

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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)

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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 17, 2010

Client SDG: 10-2138

Client Sample ID: RE36-10-8493
Sample ID: 248245001
Matrix: W
Collect Date: 24-FEB-10 12:00
Receive Date: 27-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "As Received"</i>											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	03/08/10	1535	959217	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/08/10	1241	959216

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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

Report Date: March 25, 2010

Client SDG: 10-2138-1

Client Sample ID: RE36-10-8475
Sample ID: 248247002
Matrix: R
Collect Date: 24-FEB-10 12:00
Receive Date: 27-FEB-10
Collector: Client
Moisture: 8.84%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.5C	H	6.01	0.010	0.100	SU	1	TXT1	03/02/10	1620	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.1	269	ug/kg	1	AXC2	03/10/10	1508	959214	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.24	0.329	1.10	mg/kg	1	GXM	03/23/10	0556	967003	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/22/10	1450	967001
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/10/10	1108	959213

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 25, 2010

Client SDG: 10-2138-1

Client Sample ID: RE36-10-8471
Sample ID: 248247003
Matrix: R
Collect Date: 24-FEB-10 12:00
Receive Date: 27-FEB-10
Collector: Client
Moisture: 11.5%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.4C	H	7.78	0.010	0.100	SU	1	TXT1	03/02/10	1622	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	65.1	239	ug/kg	1	AXC2	03/10/10	1509	959214	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.27	0.339	1.13	mg/kg	1	GXM	03/23/10	0626	967003	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/22/10	1450	967001
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/10/10	1108	959213

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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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 25, 2010

Client SDG: 10-2138-1

Client Sample ID: RE36-10-8485
Sample ID: 248247004
Matrix: R
Collect Date: 24-FEB-10 12:00
Receive Date: 27-FEB-10
Collector: Client
Moisture: 23.5%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.4C	H	7.38	0.010	0.100	SU	1	TXT1	03/02/10	1624	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	75.3	277	ug/kg	1	AXC2	03/10/10	1510	959214	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.47	0.392	1.31	mg/kg	1	GXM	03/23/10	0656	967003	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/22/10	1450	967001
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/10/10	1108	959213

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 25, 2010

Client SDG: 10-2138-1

Client Sample ID: RE36-10-8477
Sample ID: 248247005
Matrix: R
Collect Date: 24-FEB-10 12:00
Receive Date: 27-FEB-10
Collector: Client
Moisture: 12.8%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.2C	H	7.60	0.010	0.100	SU	1	TXT1	03/02/10	1626	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	75.0	276	ug/kg	1	AXC2	03/10/10	1514	959214	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.344	1.15	mg/kg	1	GXM	03/23/10	0726	967003	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/22/10	1450	967001
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/10/10	1108	959213

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 25, 2010

Client SDG: 10-2138-1

Client Sample ID: RE36-10-8479
Sample ID: 248247006
Matrix: R
Collect Date: 24-FEB-10 12:00
Receive Date: 27-FEB-10
Collector: Client
Moisture: 10.2%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.8C	H	7.65	0.010	0.100	SU	1	TXT1	03/02/10	1630	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	72.8	268	ug/kg	1	AXC2	03/10/10	1515	959214	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.48	0.334	1.11	mg/kg	1	GXM	03/23/10	0947	967003	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/22/10	1450	967001
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/10/10	1108	959213

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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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 25, 2010

Client SDG: 10-2138-1

Client Sample ID: RE36-10-8484
Sample ID: 248247007
Matrix: R
Collect Date: 24-FEB-10 12:00
Receive Date: 27-FEB-10
Collector: Client
Moisture: 16.2%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.8C	H	7.35	0.010	0.100	SU	1	TXT1	03/02/10	1632	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.8	271	ug/kg	1	AXC2	03/10/10	1516	959214	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.38	0.358	1.19	mg/kg	1	GXM	03/23/10	1017	967003	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/22/10	1450	967001
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/10/10	1108	959213

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 25, 2010

Client SDG: 10-2138-1

Client Sample ID: RE36-10-8464
Sample ID: 248247001
Matrix: R
Collect Date: 24-FEB-10 12:00
Receive Date: 27-FEB-10
Collector: Client
Moisture: 9.54%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.9C	H	8.00	0.010	0.100	SU	1	TXT1	03/02/10	1614	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	75.2	276	ug/kg	1	AXC2	03/10/10	1507	959214	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.27	0.332	1.11	mg/kg	1	GXM	03/23/10	0357	967003	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/22/10	1450	967001
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/10/10	1107	959213

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 25, 2010

Client SDG: 10-2138-1

Client Sample ID: RE36-10-8481
Sample ID: 248247008
Matrix: R
Collect Date: 24-FEB-10 12:00
Receive Date: 27-FEB-10
Collector: Client
Moisture: 11.2%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.6C	H	7.90	0.010	0.100	SU	1	TXT1	03/02/10	1635	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.7	271	ug/kg	1	AXC2	03/10/10	1517	959214	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.338	1.13	mg/kg	1	GXM	03/23/10	1047	967003	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/22/10	1450	967001
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/10/10	1108	959213

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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Friday, February 26, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2138

LOS ALAMOS

REQUEST NUMBER: 10-2138

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/28/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

248245, 248247

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-8493	1	POLY	METALS+U-GEL	Nitric Acid	W
RE36-10-8493	1	POLY	SW-846.6850	Ice	W
RE36-10-8493	1	POLY	TCN	Sodium Hydroxide	W
RE36-10-8464	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8464	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8475	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8475	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8471	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8471	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8485	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8485	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8477	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8477	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8478	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8479	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8484	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8484	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8481	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8481	1	POLY	Perchlorate+CN+N03+pH	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

[Signature]
 Printed Name Signature

2/26/10 1400 Patricia Dover-Dent P. N. Dent 2/27/10 09:10
 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

Friday, February 26, 2010

**LOS ALAMOS
NATIONAL LABORATORY**

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

These Samples are on:

LANL Request Number: 10-2138

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/25/2010

TURNAROUND/REPORT DUE: 3/26/2010

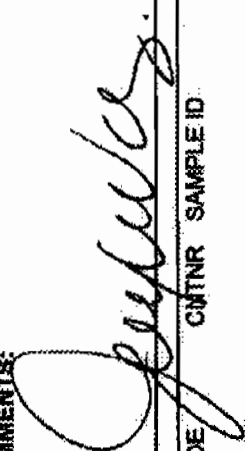
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA-300.0					
		1	RE36-10-8464	R	2/24/2010	
		1	RE36-10-8471	R	2/24/2010	
		1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	
	SW-846-60106	1	RE36-10-8464	R	2/24/2010	

Friday, February 26, 2010 Page 2 of 3
 REQUEST NUMBER: 10-2138

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846.6010B	1	RE36-10-8471	R	2/24/2010	
		1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	
	SW-846.6020	1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8471	R	2/24/2010	
		1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	
		1	RE36-10-8493	W	2/24/2010	
	SW-846.6850	1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8471	R	2/24/2010	
		1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	
		1	RE36-10-8493	W	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8471	R	2/24/2010	
		1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	
		1	RE36-10-8493	W	2/24/2010	
	SW-846.7470A	1	RE36-10-8493	W	2/24/2010	
	SW-846.7471A	1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8493	W	2/24/2010	

Friday, February 26, 2010 Page 3 of 3
 REQUEST NUMBER: 10-2138

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846.7471A	1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	
	SW-846.9012A	1	RE36-10-8464	R	2/24/2010	
		1	RE36-10-8471	R	2/24/2010	
		1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	
	SW-846.9045C	1	RE36-10-8483	W	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8471	R	2/24/2010	
		1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	

Final Page of REQUEST NUMBER 10-2138



March 06, 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 Orders: 248245 248247
SDG: 10-2138

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 27, 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: 10-2138
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 248245 and 248247
SDG: 10-2138

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Cyanide, Total	1063

Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 248245 and 248247
SDG # : 10-2138**

March 06, 2010

Laboratory Identification:

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

Summary

Sample receipt The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on February 27, 2010 for analysis. The sample was prepared/analyzed within the required holding time. Shipping container temperature was checked, documented, and within specifications. The samples were screened according to GEL Standard Operating Procedure. The original chain of custody was received 3/2/10. All sample containers arrived without any visible signs of tampering or breakage. Containers were checked for pH, where appropriate, and matched the preservative as documented on the accompanying chain of custody. Shipping container temperature was within specification (0 - 6C).

Sample Identification The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
248245001	RE36-10-8493
248247001	RE36-10-8464
248247002	RE36-10-8475
248247003	RE36-10-8471
248247004	RE36-10-8485
248247005	RE36-10-8477
248247006	RE36-10-8479
248247007	RE36-10-8484
248247008	RE36-10-8481

Case Narrative

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

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

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



Valerie Davis
Project Manager

List of current GEL Certifications as of 06 March 2010

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

Chain of Custody and Supporting Documentation

Friday, February 26, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2138

LOS ALAMOS

REQUEST NUMBER: 10-2138

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/28/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

248245, 248247

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-8493	1	POLY	METALS+U-GEL	Nitric Acid	W
RE36-10-8493	1	POLY	SW-846:6850	Ice	W
RE36-10-8493	1	POLY	TCN	Sodium Hydroxide	W
RE36-10-8464	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8464	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8475	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8475	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8471	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8471	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8485	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8485	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8477	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8477	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8479	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8479	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8484	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8484	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8481	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8481	1	POLY	Perchlorate+CN+N03+pH	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Jeanyla
 Printed Name Signature

2/26/10 1400

Patricia Dover-Dent

P. D. Dent

2/27/10 09:10

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Friday, February 26, 2010

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/26/2010

TURNAROUND/REPORT DUE: 3/28/2010

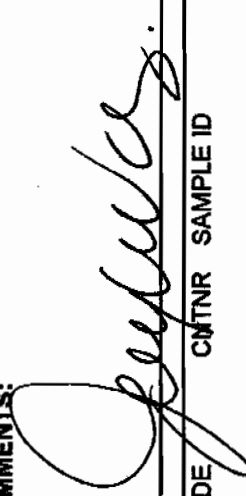
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



These Samples are on:
LANL Request Number: 10-2138
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Page 1 of 3
REQUEST NUMBER: 10-2138

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA-300.0	1	RE36-10-8464	R	2/24/2010	
		1	RE36-10-8471	R	2/24/2010	
		1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	
	SW-846-8010B	1	RE36-10-8464	R	2/24/2010	

Friday, February 26, 2010

REQUEST NUMBER: 10-2138

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6010B	1	RE36-10-8471	R	2/24/2010	
		1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	
	SW-846:6020	1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8471	R	2/24/2010	
		1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	
		1	RE36-10-8493	W	2/24/2010	
	SW-846:6850	1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8471	R	2/24/2010	
		1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	
		1	RE36-10-8493	W	2/24/2010	
	SW-846:7470A	1	RE36-10-8493	W	2/24/2010	
	SW-846:7471A	1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8471	R	2/24/2010	

Friday, February 26, 2010

Page 3 of 3

REQUEST NUMBER: 10-2138

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:7471A	1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	
	SW-846:9012A	1	RE36-10-8464	R	2/24/2010	
		1	RE36-10-8471	R	2/24/2010	
		1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	
		1	RE36-10-8493	W	2/24/2010	
	SW-846:9045C	1	RE36-10-8464	R	2/24/2010	
		1	RE36-10-8471	R	2/24/2010	
		1	RE36-10-8475	R	2/24/2010	
		1	RE36-10-8477	R	2/24/2010	
		1	RE36-10-8479	R	2/24/2010	
		1	RE36-10-8481	R	2/24/2010	
		1	RE36-10-8484	R	2/24/2010	
		1	RE36-10-8485	R	2/24/2010	

Final Page of REQUEST NUMBER 10-2138



SAMPLE RECEIPT & REVIEW FORM

Client: LANL			SDG/ARCOC/Work Order: 10-2138		
Received By: Patricia Dover-Dent			Date Received: 2/27/10		
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 $0 \leq 6$ deg. C?	X			Preservation Method: ice bags blue ice dry ice none other 1-6C 10,11C
3 Chain of custody documents included with shipment?	X		X	The original COC rec'd 3/2/10
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: No time on Chain of Custody.
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 2525 1C 7209 7850 2570 5C
7209 7850 2606 1C 7209 7850 2558 6C
7209 7850 2547 1C 7209 7850 2536 6C
7209 7850 2639 2C 7209 7850 2591 6C
7209 7850 2580 2C 7209 7850 2514 10C
7209 7850 2499 2C 7209 7850 2628 11C
7209 7850 2617 3C 7209 7850 2503 11C
7209 7850 2569 4C

PM (or PMA) review: Initials

Date

3/3/10

Subject: Sample Receipt for 2/27/10

From: Dionne Francis <Dionne.Francis@gel.com>

Date: Mon, 01 Mar 2010 13:52:03 -0500

To: "Keith R. Greene" <kgreene@lanl.gov>, Joylene Valdez <joylenev@lanl.gov>, Valerie Davis <vsd@gel.com>

Keith,

The lab did not receive any original chain of custodies.

RN 10-2149: the lab did not receive the RAD poly container for sample WSTTH-10-13314.

RN 10-2148: the lab did not receive the GrossG container for sample WSTTH-10-13314

RN 10-2145: the lab did not receive the 40ml vial container for sample RE46-10-13543.

RN 10-2098: the Metals container for sample WST16-10-12239 will be preserved prior to analysis.

The following containers were rec'd without a COC:

RE36-10-7533 and 7535

250 poly Perchlorate, 500ml poly TCN, 1L poly Metals+U

RE36-10-7416 thru 7420, 7477 thru 7490, 7492 thru 7500, 7521 thru 7523
125ml poly Metals, 500ml amber glass 8270+NMED Exp, 500ml poly Perchlorate

RE36-10-7491

500ml amber glass H3, 8270+NMED Exp

Thanks,
Dionne

--

Dionne Francis
Project Manager Assistant
GEL Laboratories, LLC
2040 Savage Road
Charleston, SC (USA) 29407
Direct: 843.769.7376 Ext. 4432
Main: 843.556.8171
Fax: 843.766.1178
E-mail: daf@gel.com
Web: www.gel.com

Let the Bible fill the memory, rule the heart, and guide the feet.

ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAG# BLDG 1237 DPU 83

SHIP DATE: 26FEB10
ACTWT: 54.0 LB MAN
CAD: 0014176/CAFE2450

LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: MR3A0223CY10

1c

ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAG# BLDG 1237 DPU 83

SHIP DATE: 26FEB10
ACTWT: 52.0 LB MAN
CAD: 0014176/CAFE2450

LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

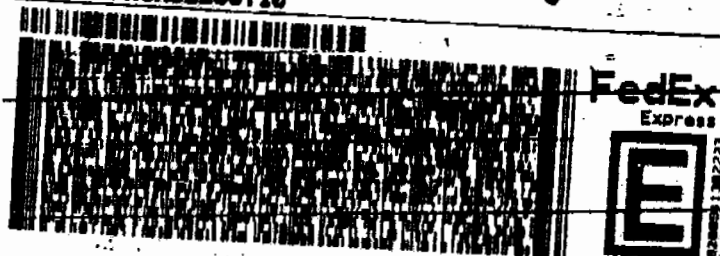
TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: MR2A0515BYD0

1c



1 of 2
TRK# 7209 7850 2525
NN MASTER NN

SATURDAY ### A1
PRIORITY OVERNIGHT

X0 CHSA



294

26FEB10
0 LB MAN
CAD: 0014176/CAFE2450

LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: MR3A0223FCY10

1c

1 of 2
TRK# 7209 7850 2606
NN MASTER NN

SATURDAY ### A1
PRIORITY OVERNIGHT

X0 CHSA



29407
SC-US
CHS

26FEB10
0 LB MAN
CAD: 0014176/CAFE2450

LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

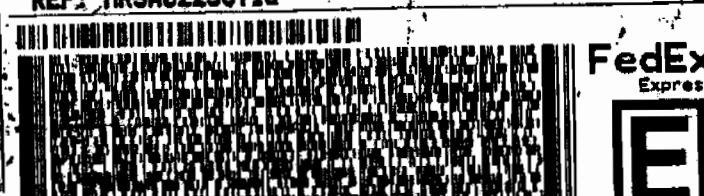
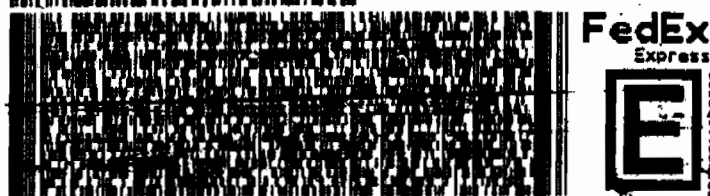
TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: MR3A0223CY10

2c



1 of 2
TRK# 7209 7850 2547
NN MASTER NN

SATURDAY ### A1
PRIORITY OVERNIGHT

X0 CHSA

29407
SC-US
CHS



2 of 2
MP# 7209 7850 2639
Matr# 7209 7850 2628 (8201)

SATURDAY ### A1
PRIORITY OVERNIGHT

X0 CHSA

29407
SC-US
CHS



JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 26FEB10
ACTNGT: 67.0 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: 26FEB10
ACTNGT: 58.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: MR2A0515BYD0

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: MR3A0223CY10

FedEx
Express



FedEx
Express



TRK# 7209 7850 2500
0201
NN MASTER NN

1 of 2
SATURDAY ### A1
PRIORITY OVERNIGHT

X0 CHSA

29407
SC-US
CHS



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

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: MR2A0515BYD0

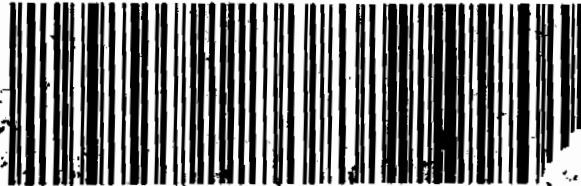
TRK# 7209 7850 2499
0201
NN MASTER NN

1 of 3

SATURDAY ### A1
PRIORITY OVERNIGHT

X0 CHSA

29407
SC-US
CHS



JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

ACTNGT: 53.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: MR2A0515BYD0

FedEx
Express



FedEx
Express



TRK# 7209 7850 2617
0263
Matr# 7209 7850 2606 0201

2 of 2
SATURDAY ### A1
PRIORITY OVERNIGHT

X0 CHSA

29407
SC-US
CHS



TRK# 7209 7850 2569
0201
NN MASTER NN

1 of 2

SATURDAY ### A1
PRIORITY OVERNIGHT

X0 CHSA

29407
SC-US
CHS



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

SHIP DATE: 26 FEB 10
ACTWGT: 63.0 LB MAN
CAD: 0014176/CAFE2450

LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

5c
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: MR3A0223FCY10

FedEx
Express



2 of 2
PSN 7209 7850 2570
str# 7209 7850 2569 0201
SATURDAY ### A1
PRIORITY OVERNIGHT

X0 CHSA

29407
SC-US
CHS



LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

6c
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: MR3A0223CY10

FedEx
Express



2 of 2
PSN 7209 7850 2536
str# 7209 7850 2525 0201
SATURDAY ### A1
PRIORITY OVERNIGHT

X0 CHSA

29407
SC-US
CHS



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

SHIP DATE: 26 FEB 10
ACTWGT: 63.0 LB MAN
CAD: 0014176/CAFE2450

LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

6c
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: MR3A0223FCY10

FedEx
Express



2 of 2
PSN 7209 7850 2558
str# 7209 7850 2547 0201
SATURDAY ### A1
PRIORITY OVERNIGHT

X0 CHSA

29407
SC-US
CHS



LOS ALAMOS, NM 87545
UNITED STATES US

6c
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: MR2A0515BYD0

FedEx
Express



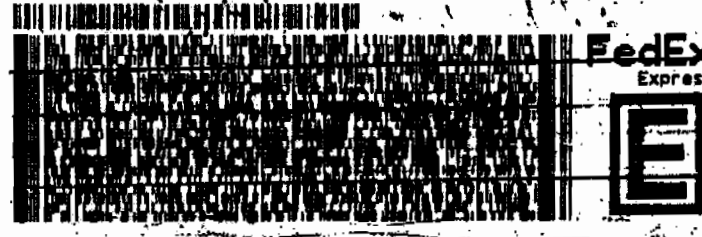
2 of 2
PSN 7209 7850 2591
str# 7209 7850 2580 0201
SATURDAY ### A1
PRIORITY OVERNIGHT

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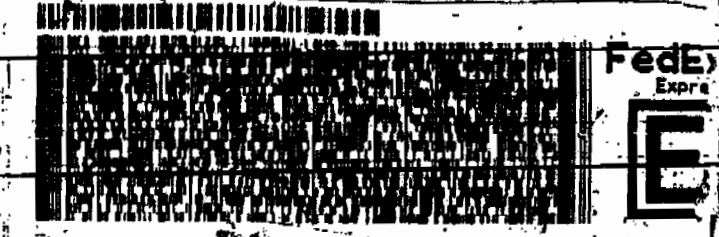


ORIGIN ID: SAFA (806) 655-9898
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DRU 03
LOS ALAMOS, NM 87545
UNITED STATES US
SHIP DATE: 26 FEB 10
ACTWGT: 39.0 LB MAN
CAD: 0014176/CAFE2450
BILL SENDER
10c
TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD
CHARLESTON SC 29407
(843) 556-8171
REF: MR3A0223CY10



3 of 3
NPSH 8263 7209 7850 2514
MatrN 7209 7850 2498 8201
SATURDAY ### A1
PRIORITY OVERNIGHT
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X0 CHSA
Barcode

ORIGIN ID: SAFA (806) 655-9898
JOYLENE VALDEZ
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1 of 2
NPSH 8201 7209 7850 2628
MatrN 7209 7850 2498 8201
SATURDAY ### A1
PRIORITY OVERNIGHT
29407
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CHS
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Barcode

ORIGIN ID: SAFA (806) 655-9898
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DRU 03
LOS ALAMOS, NM 87545
UNITED STATES US
SHIP DATE: 26 FEB 10
ACTWGT: 40.0 LB MAN
CAD: 0014176/CAFE2450
BILL SENDER
11c
TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD
CHARLESTON SC 29407
(843) 556-8171
REF: MR3A0223CY10



2 of 3
NPSH 8263 7209 7850 2503
MatrN 7209 7850 2499 8201
SATURDAY ### A1
PRIORITY OVERNIGHT
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Barcode

Data Review Qualifier Flag Definition Sheet

Data Review Qualifier Definitions

Qualifier	Explanation
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*	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 10-2149**

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: 959047

Prep Batch Number: 959046

Sample Analysis

Sample ID	Client ID
248261001	WSTTH-10-13314
1202056719	Interference Check Sample (ICS)
1202056715	Method Blank (MB)
1202056716	Laboratory Control Sample (LCS)
1202056717	248162002(RE46-10-13209) Matrix Spike (MS)
1202056718	248162002(RE46-10-13209) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Preparation/Analytical Method Verification

SOP Reference

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

Calibration Information

Initial Calibration

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

CCV Requirements

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

CCB Requirements

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

CCV Requirements

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

10-2149-PERLCMS

Page 1 of 4

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 248162002 (RE46-10-13209) was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

Matrix Spike (MS) Recovery Statement

The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

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.

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

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

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

Miscellaneous Information

Data Exception (DER) Documentation

Data exception reports (DERs) are generated to document procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Manual Integrations

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

Method Comments

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

Additional Comments

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

Perchlorate Isotope Ratio

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

System Configuration

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

Chromatographic Columns

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

Certification Statement

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

Review Validation:

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

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

Reviewer:  Date: 3/16/2010

SAMPLE DATA SUMMARY

Form 1

Perchlorate Analysis Data Sheet

Client Sample No.
RE36-10-8493

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Date Received: 27-FEB-10

Instrument: LCMSMS

GEL Job No (SDG): 10-2138

Method: SW846 6850 Modified

GEL Sample ID: 248245001

Matrix: WATER

Date Filtered: 05-MAR-10

Extraction Batch ID: 259046

Injection Volume (uL): 20

Extraction Type: Filter/DAI

%Solids:

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	09-MAR-10 11:43	per0308133a
	Perchlorate Isotope Ratio						1	09-MAR-10 11:43	per0308133a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 11:43	per0308133a
	Perchlorate-O(18)			0.470	ug/L		1	09-MAR-10 11:43	per0308133a

[^] 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

QUALITY CONTROL SUMMARY

Perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL GEL Job No. (SDG): 10-2138

Extract Batch Code: 959046 Date Filtered: 05-MAR-10

Matrix: WATER Sample ID: 1202056716

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	0.200	.187	ug/L	93.6		85 - 115
Perchlorate Isotope Ratio		3.13				-
Perchlorate-101	0.200	.197	ug/L	98.4		85 - 115
Perchlorate-O(18)		.45	ug/L			-

[^] 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): 10-2138

Extract Batch Code: 959046 Date Filtered: 05-MAR-10

Matrix: WATER Sample ID: 1202056719

Analyte^	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	0.200	.197	ug/L	98.5		70 - 130
Perchlorate Isotope Ratio		3.09				
Perchlorate-101	0.200	.21	ug/L	105		70 - 130
Perchlorate-O(18)		.463	ug/L			

^ 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: Charles W. Wilson

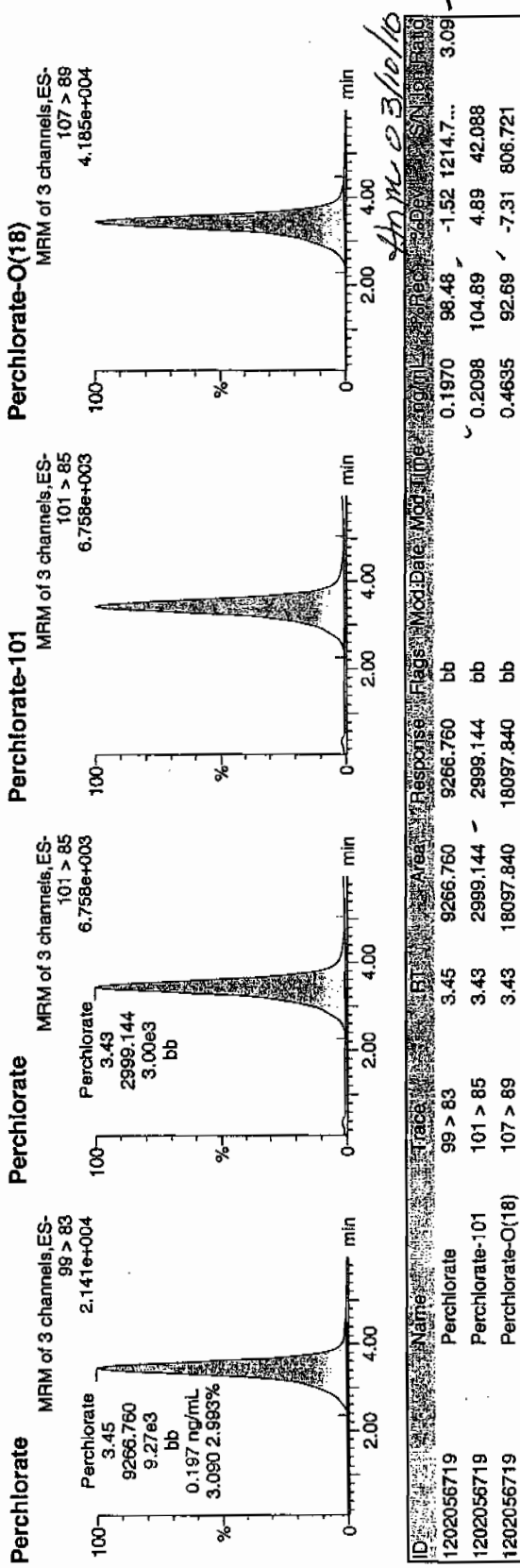
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Date: 09-Mar-2010
Time: 08:06:14
ID: 1202056719
Vial: 3:1,C

63308-10

1202056719 | 1202056719 | 1202056719



Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10-2138

Extract Batch Code: 959046

Date Extracted: 05-MAR-10

GEL MS/PS ID: 1202056717

Client ID: RE46-10-13209

GEL MSD/PSD ID: 1202056718

QC Type: MS

Compound [^]	Spike Added	Sample Conc	Units	MS Conc	MS Rec	MSD Conc	MSD Rec	RPD	#	RPD Limit	Recovery Limit
Perchlorate	0.200	0.00772	ug/L	0.190	91.1	.191	91.9	.803		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		3.14		3.05		0			-
Perchlorate-101	0.200	0.0102	ug/L	0.199	94.3	.207	98.3	3.87		30	75 - 125
Perchlorate-O(18)	0	0.435	ug/L	0.461		.46		.13			-

[^] 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:

Form 4

Perchlorate Initial Calibration Blank

GEL Job No.(SDG): 10-2138

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	08-MAR-10	per0308001a	IPB001
Perchlorate-101	0.00	0	NA	08-MAR-10	per0308001a	IPB001
Perchlorate	0.00	0	NA	08-MAR-10	per0308002a	IPB001
Perchlorate-101	0.00	0	NA	08-MAR-10	per0308002a	IPB001

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

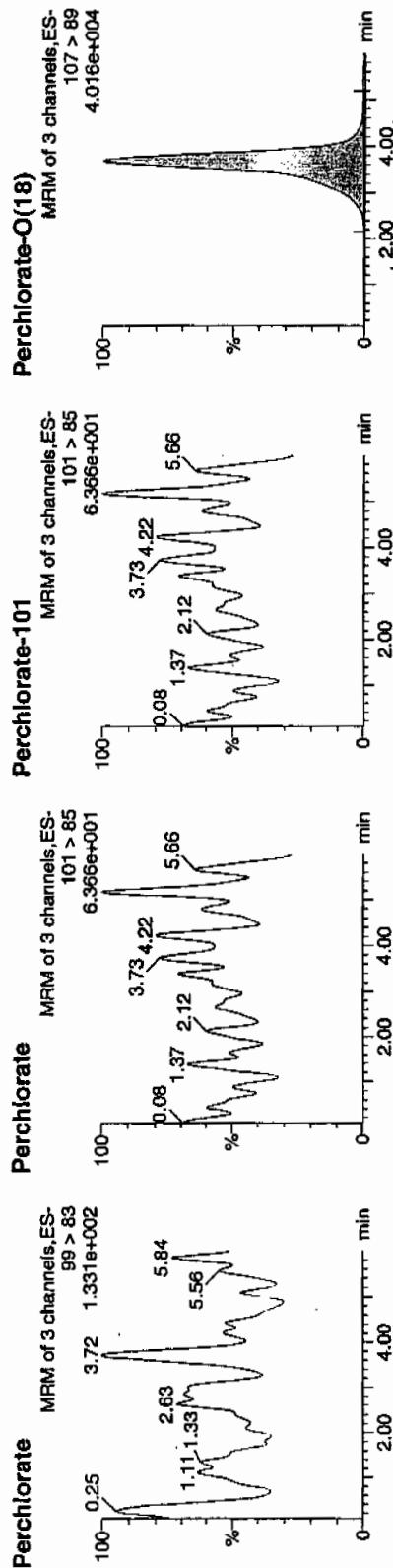
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Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per030810a.cdb 09 Mar 2010 12:48:47

Name: per0308001a
Date: 08-Mar-2010
Time: 15:44:43
ID: IPB001
Vial: 1:1,A

03-09-10



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	3.68	20012.854	20012.854	bb			0.5125	102.50	2.50	855.555	

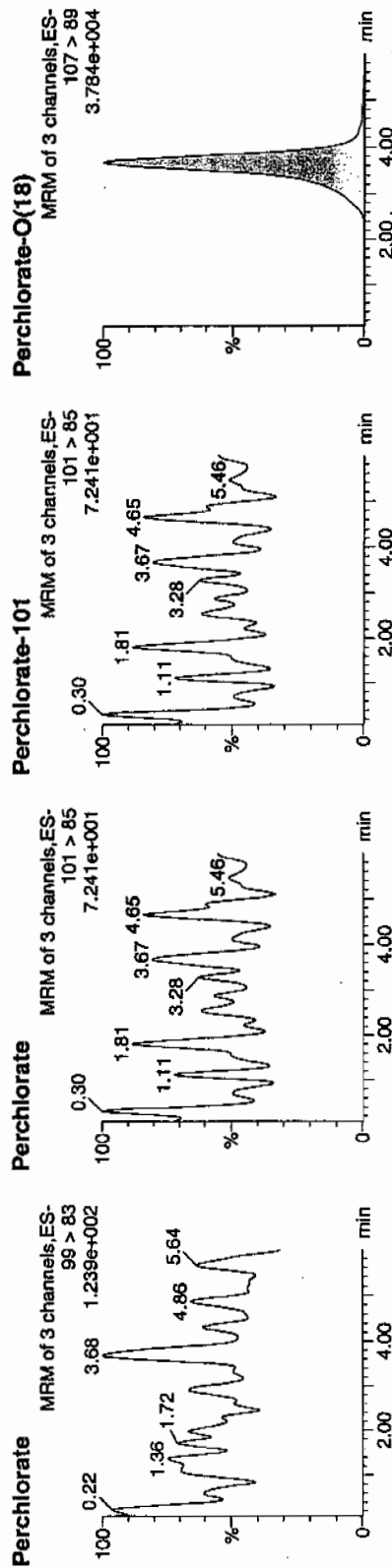
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

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Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308002a
Date: 08-Mar-2010
Time: 15:53:45
ID: IPB001
Vial: 1:1,A

03-04-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	Conc/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83											0.00
IPB001	Perchlorate-101	101 > 85	3.66	18783.678	18783.678	bb			0.4810	96.21	-3.79	1331.0...	
IPB001	Perchlorate-O(18)	107 > 89											

Perchlorate Continuing Calibration Blank

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-2138

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	08-MAR-10	per0308008a	IPB002
Perchlorate-101	0.00	0	NA	08-MAR-10	per0308008a	IPB002
Perchlorate	0.00	0	NA	08-MAR-10	per0308010a	IPB003
Perchlorate-101	0.00	0	NA	08-MAR-10	per0308010a	IPB003
Perchlorate	0.00	0	NA	08-MAR-10	per0308022a	IPB004
Perchlorate-101	0.00	0	NA	08-MAR-10	per0308022a	IPB004
Perchlorate	0.00	0	NA	08-MAR-10	per0308035a	IPB005
Perchlorate-101	0.00	0	NA	08-MAR-10	per0308035a	IPB005
Perchlorate	0.00	0	NA	08-MAR-10	per0308048a	IPB006
Perchlorate-101	0.00	0	NA	08-MAR-10	per0308048a	IPB006
Perchlorate	0.00	0	NA	08-MAR-10	per0308052a	IPB007
Perchlorate-101	0.00	0	NA	08-MAR-10	per0308052a	IPB007
Perchlorate	0.00	0	NA	09-MAR-10	per0308061a	IPB008

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-2138

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate-101	0.00	0	NA	09-MAR-10	per0308061a	IPB008
Perchlorate	0.00	0	NA	09-MAR-10	per0308074a	IPB009
Perchlorate-101	0.00	0	NA	09-MAR-10	per0308074a	IPB009
Perchlorate	0.00	0	NA	09-MAR-10	per0308087a	IPB010
Perchlorate-101	0.00	0	NA	09-MAR-10	per0308087a	IPB010
Perchlorate	0.00	0	NA	09-MAR-10	per0308100a	IPB011
Perchlorate-101	0.00	0	NA	09-MAR-10	per0308100a	IPB011
Perchlorate	0.00	0	NA	09-MAR-10	per0308106a	IPB012
Perchlorate-101	0.00	0	NA	09-MAR-10	per0308106a	IPB012
Perchlorate	0.00	0	NA	09-MAR-10	per0308113a	IPB013
Perchlorate-101	0.00	0	NA	09-MAR-10	per0308113a	IPB013
Perchlorate	0.00	0	NA	09-MAR-10	per0308126a	IPB014
Perchlorate-101	0.00	0	NA	09-MAR-10	per0308126a	IPB014

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-2138

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	09-MAR-10	per0308138a	IPB015
Perchlorate-101	0.00	0	NA	09-MAR-10	per0308138a	IPB015

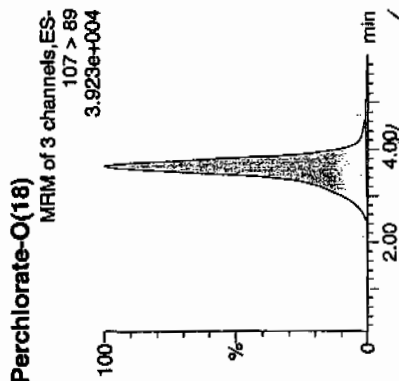
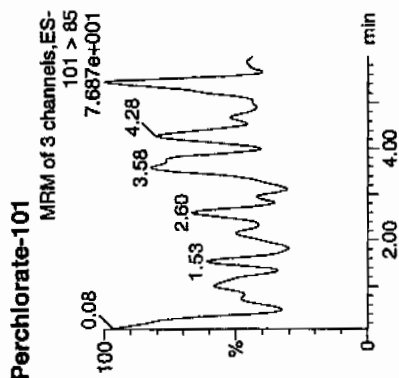
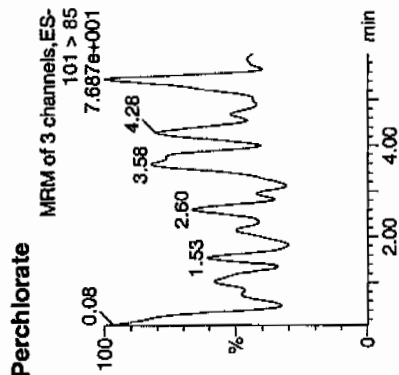
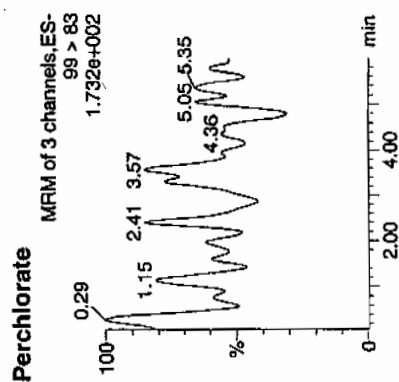
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

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Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308008a
Date: 08-Mar-2010
Time: 16:48:15
ID: IPB002
Vial: 1:1,A

03-09-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	ISN	Ion Ratio
IPB002	Perchlorate	99 > 83											0.00
IPB002	Perchlorate-101	101 > 85	3.64	18817.344	18817.344	bb			0.4819	96.38	-3.62	1274.8...	
IPB002	Perchlorate-O(18)	107 > 89											

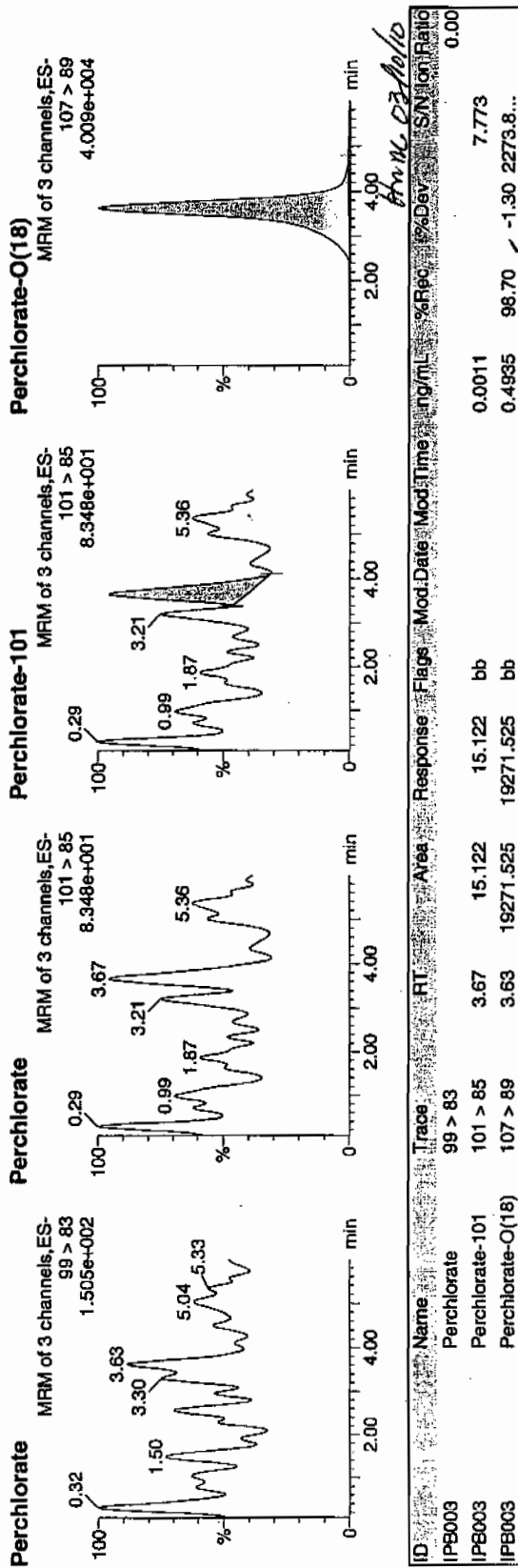
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The GEL Group, LLC Analyst: Charters W. Wilson

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Name: per0308010a
Date: 08-Mar-2010
Time: 17:06:27
ID: IPB003
Vial: 1:1,A

03-01-10



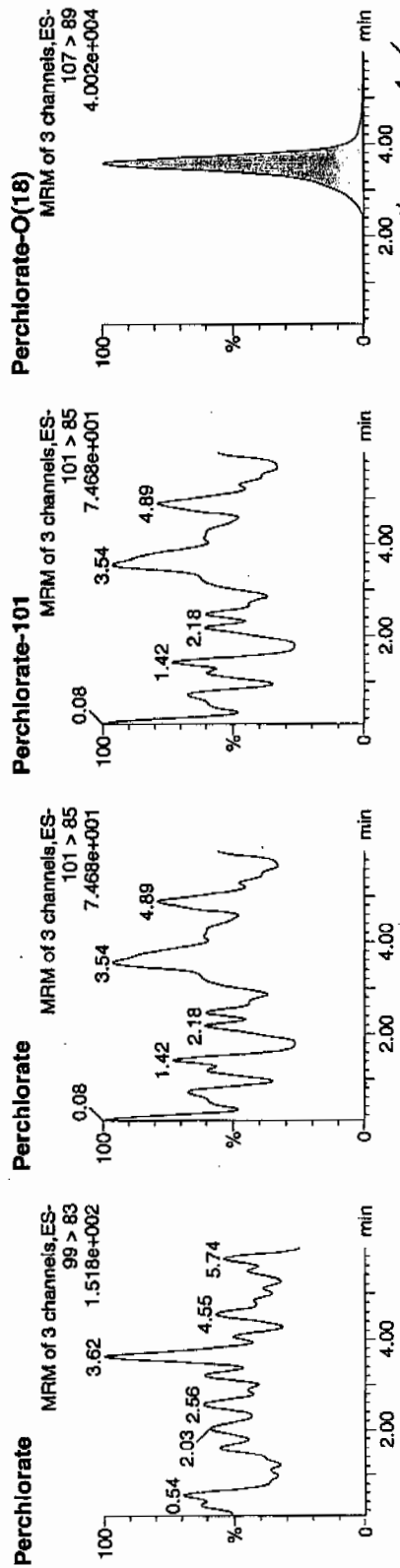
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The GEL Group, LLC Analyst: Charles W. Wilson

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Name: per0308022a
Date: 08-Mar-2010
Time: 18:55:24
ID: IPB004
Vial: 1:1,A

03-09-10



ID	Name	Trace	RT	Area	Response	Flags	Mod	Date	Mod	Time	ng/mL	%Rec	%Dev	SN	Ion	Ratio
IPB004	Perchlorate	99 > 83														0.00
IPB004	Perchlorate-101	101 > 85														
IPB004	Perchlorate-O(18)	107 > 89	3.58	19034.945	19034.945	bb					0.4875	97.49	-2.51	1930.8...		

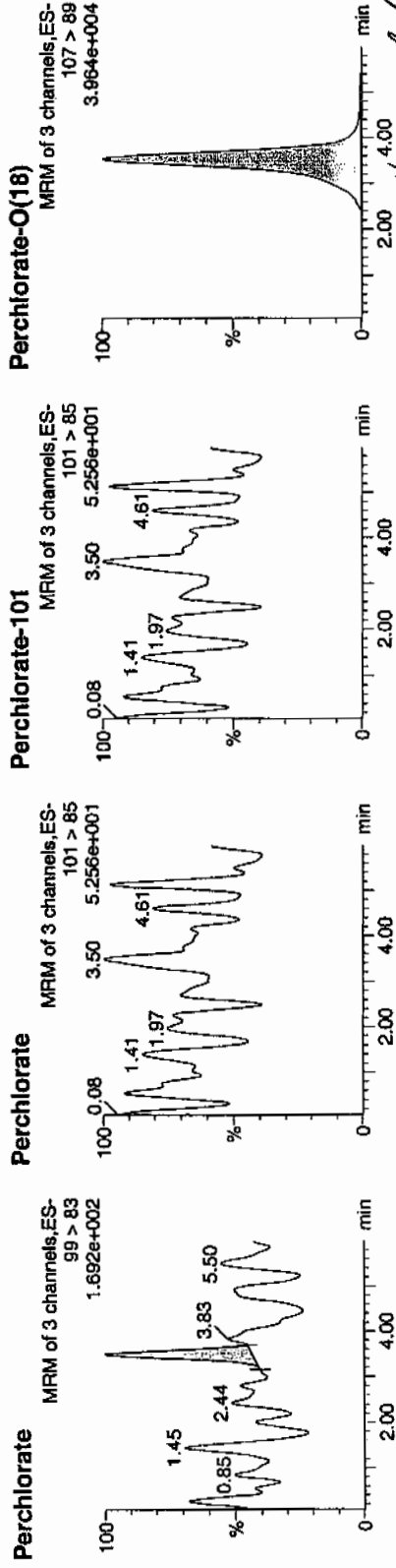
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308035a
Date: 08-Mar-2010
Time: 20:53:11
ID: IPB005
Vial: 1:1,A

0309-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB005	Perchlorate	99 > 83	3.50	20.240	20.240	bb			0.0004			12.166	0.00
IPB005	Perchlorate-101	101 > 85	3.53	18853.305	18853.305	bb			0.4828	96.56	-3.44	2233.7...	
IPB005	Perchlorate-O(18)	107 > 89											

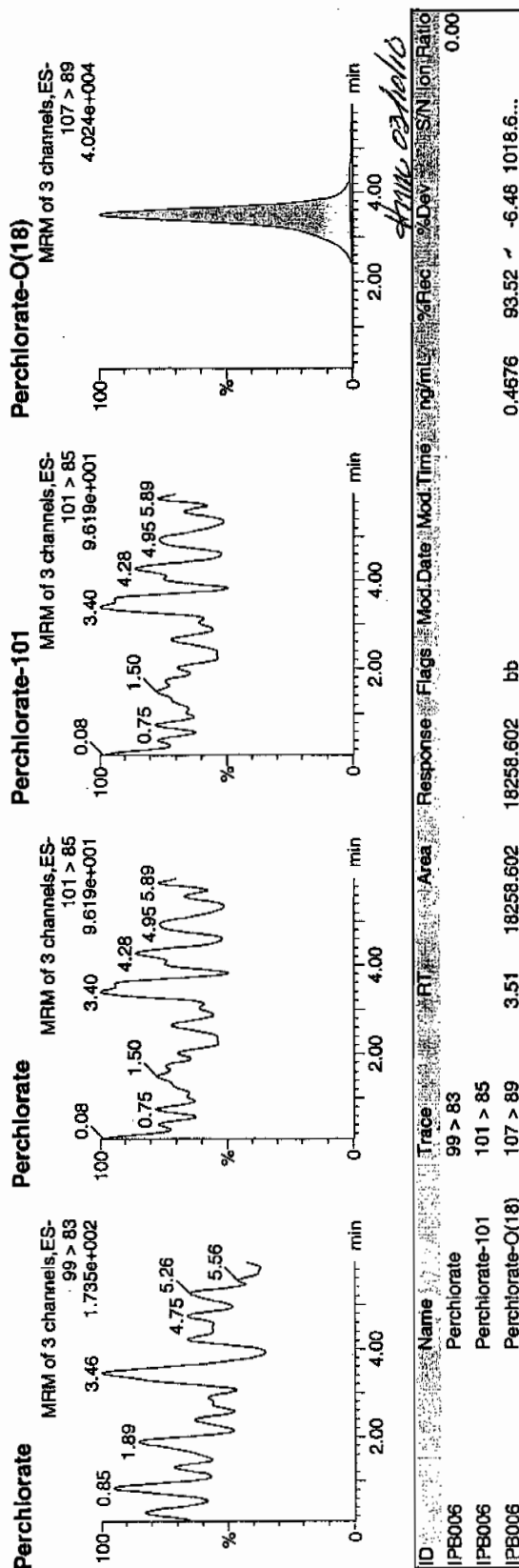
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308048a
Date: 08-Mar-2010
Time: 22:51:21
ID: IPB006
Vial: 1:1,A

03-09-10



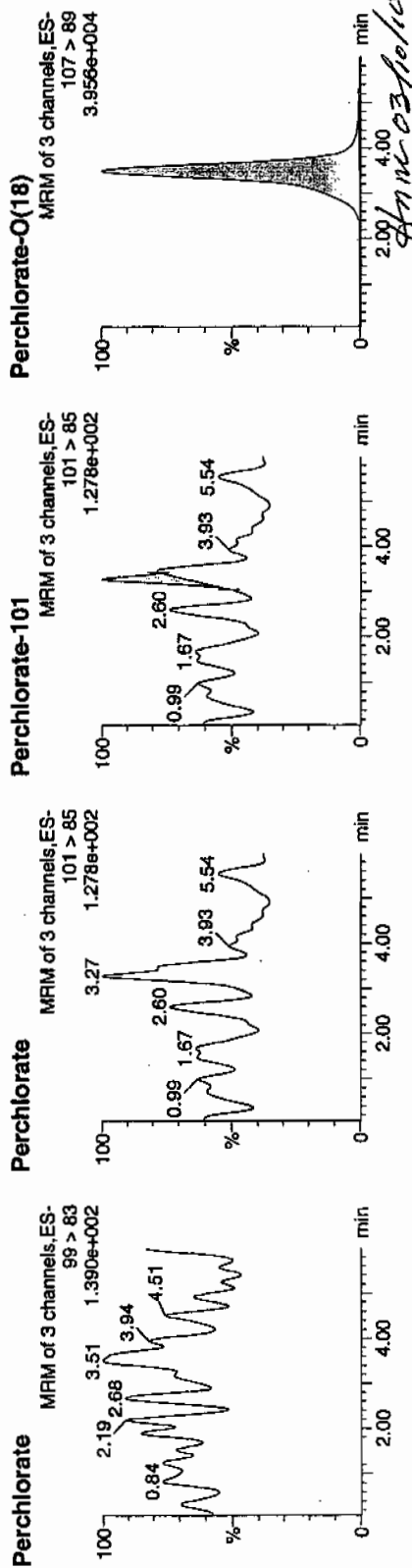
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308052a
Date: 08-Mar-2010
Time: 23:27:41
ID: IPB007
Vial: 1:1,A

03-04-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/ml	%Rec	%Dev	S/N	on Ratio
IPB007	Perchlorate	99 > 83											
IPB007	Perchlorate-101	101 > 85	3.27	7.250	7.250	bb			0.0005			11.574	
IPB007	Perchlorate-O(18)	107 > 89	3.50	18495.547	18495.547	bb			0.4736	94.73	-5.27	613.571	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

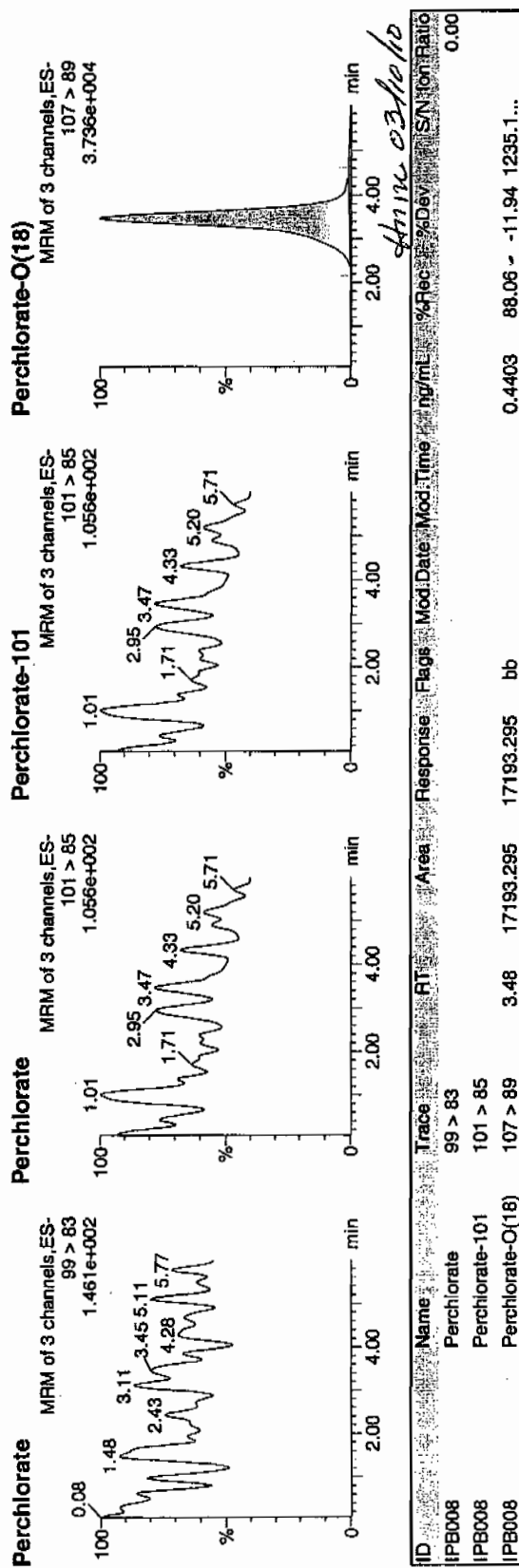
Name: per0308061a

Date: 09-Mar-2010

Time: 00:50:02

ID: IPB008

Vial: 1:1,A



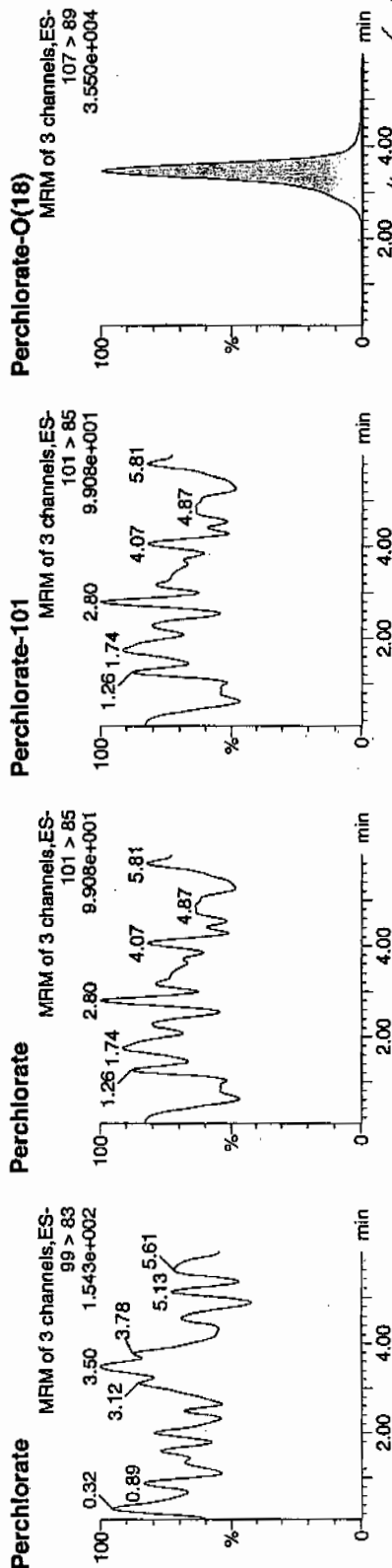
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qtd

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308074a
Date: 09-Mar-2010
Time: 02:48:02
ID: IPB009
Vial: 1:1,A

03-04-10



ID	Name	Trace	RT	Area	Response	Flags	Mod	Date	Mod	Time	ng/mL	%Rec	%Dev	S/N	Ion	Ratio
IPB009	Perchlorate	99 > 83														
IPB009	Perchlorate-101	101 > 85	3.47	16711.643	16711.643	bb					0.4280	85.59	-14.41	2348.6...		
IPB009	Perchlorate-O(18)	107 > 89														

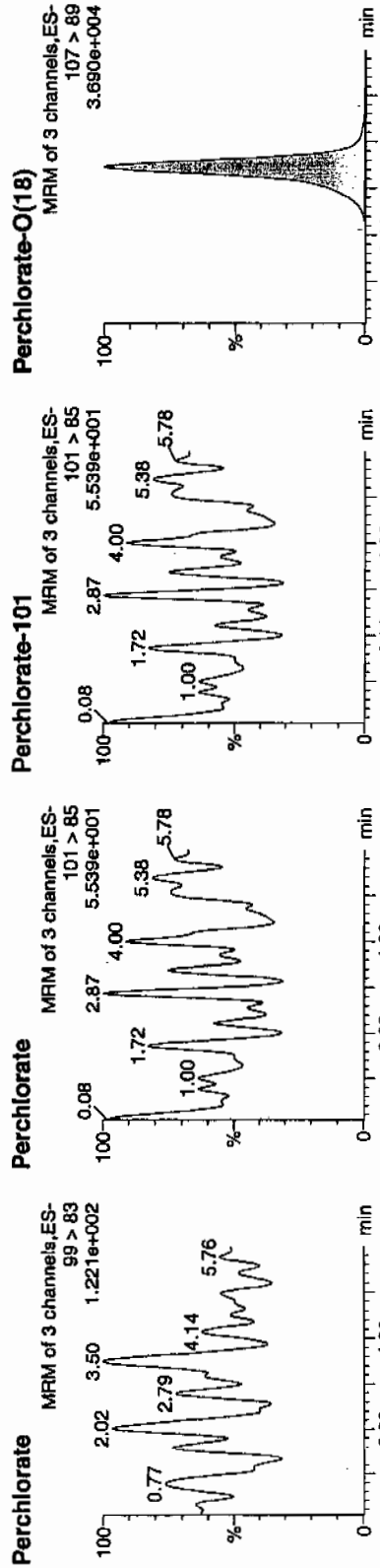
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308087a
Date: 09-Mar-2010
Time: 04:46:06
ID: IPB010
Vial: 1:1,A

03 09-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB010	Perchlorate	99 > 83											
IPB010	Perchlorate-101	101 > 85											
IPB010	Perchlorate-O(18)	107 > 89	3.46	16789.424	16789.424	bb			0.4300	85.99	-14.01	1743.0...	0.00

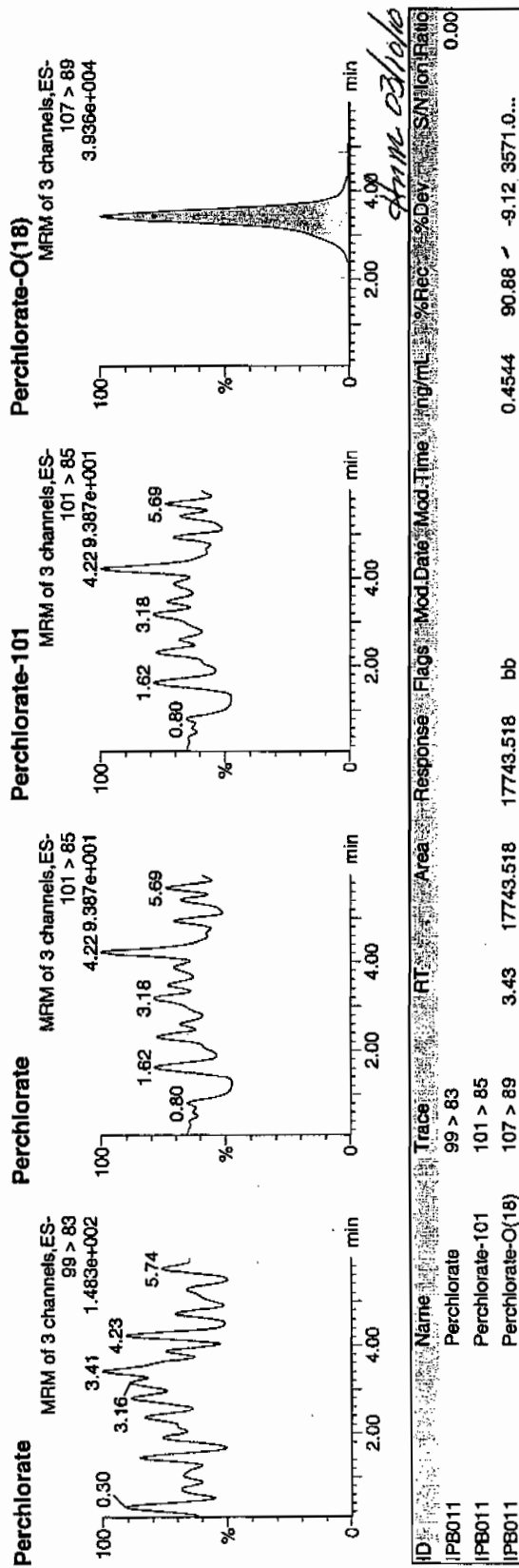
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308100a
Date: 09-Mar-2010
Time: 06:44:12
ID: IPB011
Vial: 1:1,A

03.04-10



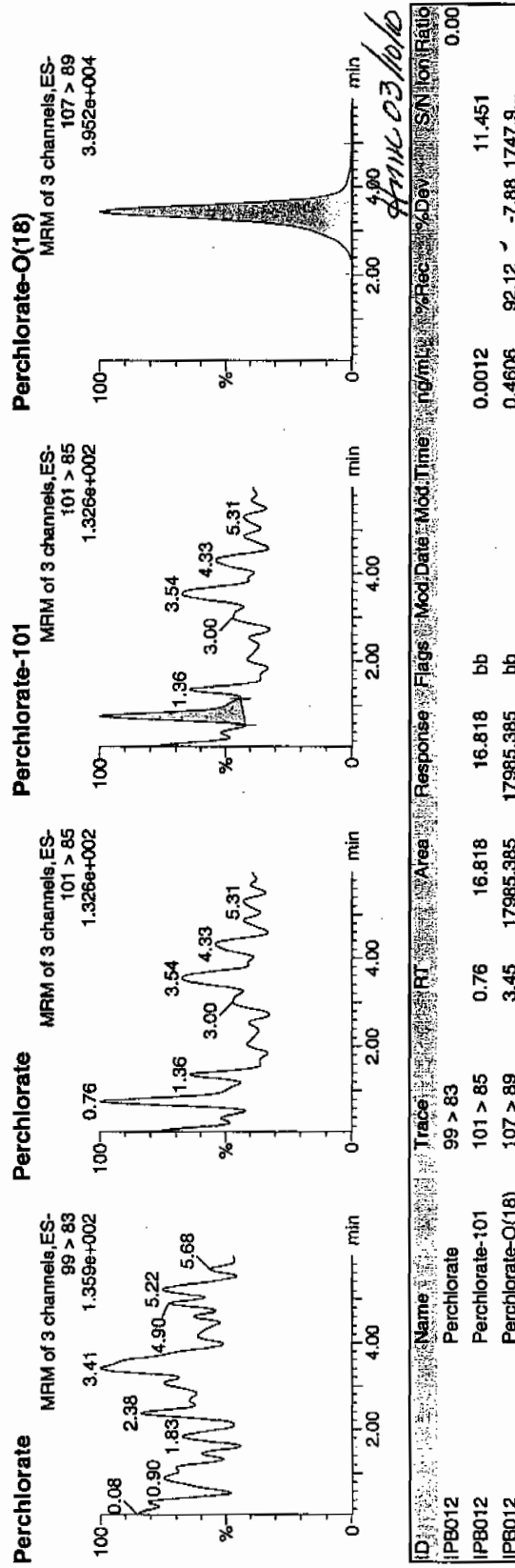
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308106a
Date: 09-Mar-2010
Time: 07:38:40
ID: IPB012
Vial: 1:1,A

03-04-10



Quantify Sample Report MassLynx 4.0 SP4

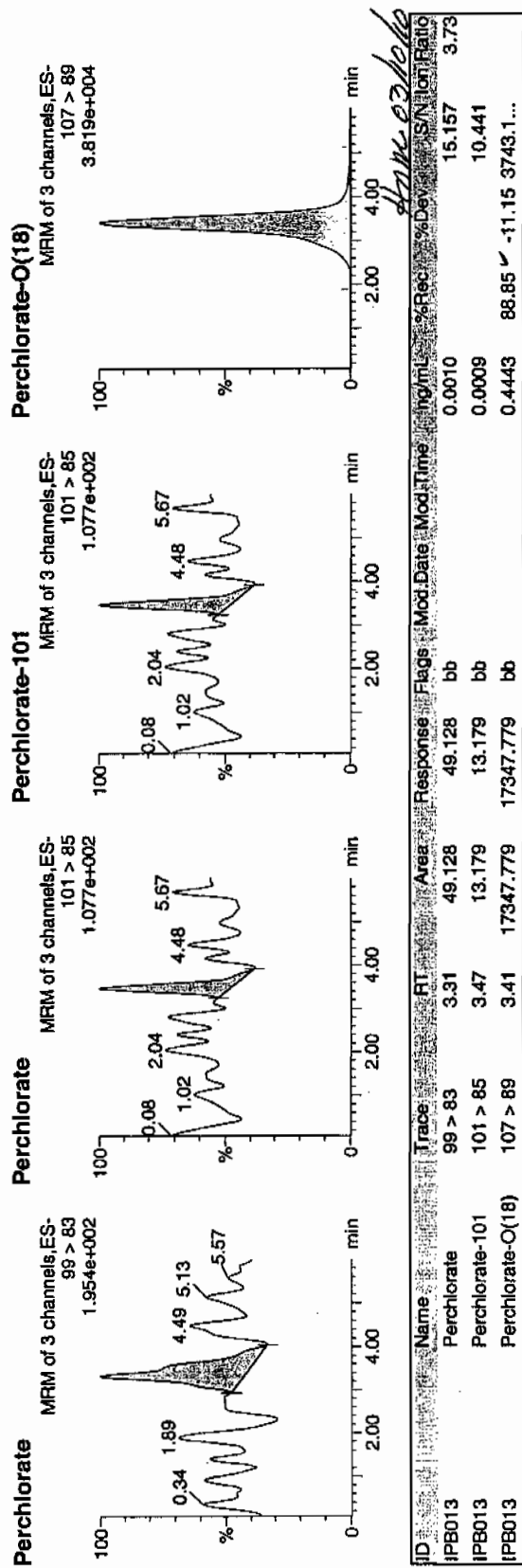
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

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Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308113a
Date: 09-Mar-2010
Time: 08:42:34
ID: IPB013
Vial: 1:1,A

03-04-10



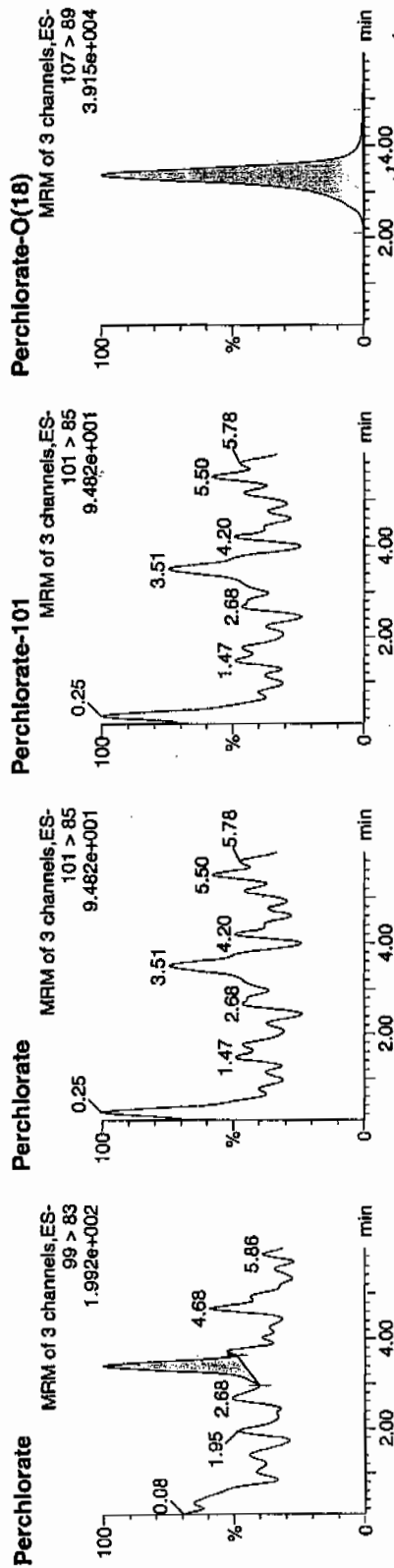
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308126a
Date: 09-Mar-2010
Time: 10:40:29
ID: IPB014
Vial: 1:1,A

Aug 03-08-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB014	Perchlorate	99 > 83	3.40	26.908	26.908	bb			0.0006				
IPB014	Perchlorate-101	101 > 85											
IPB014	Perchlorate-O(18)	107 > 89	3.37	17523.209	17523.209	bb			0.4487	89.75	-10.25	4368.3...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

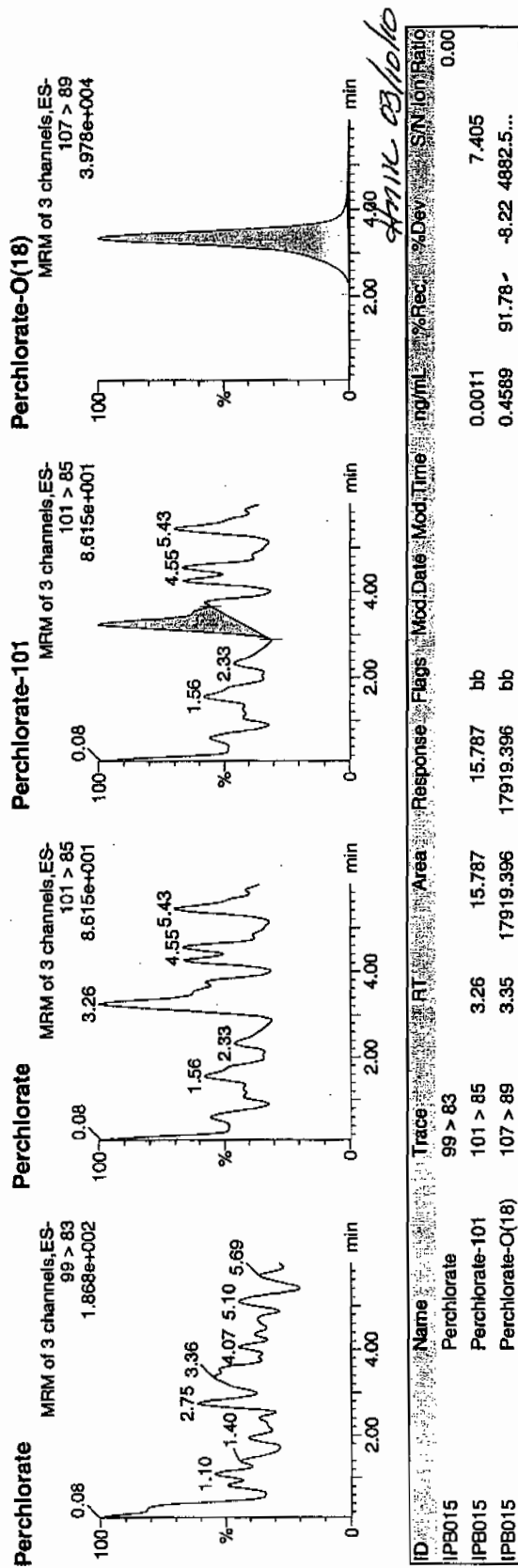
Name: per0308138a

Date: 09-Mar-2010

Time: 12:29:15

ID: IPB015

Vial: 1:1,A



Nairb.ref

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

Updated 20 April '95

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

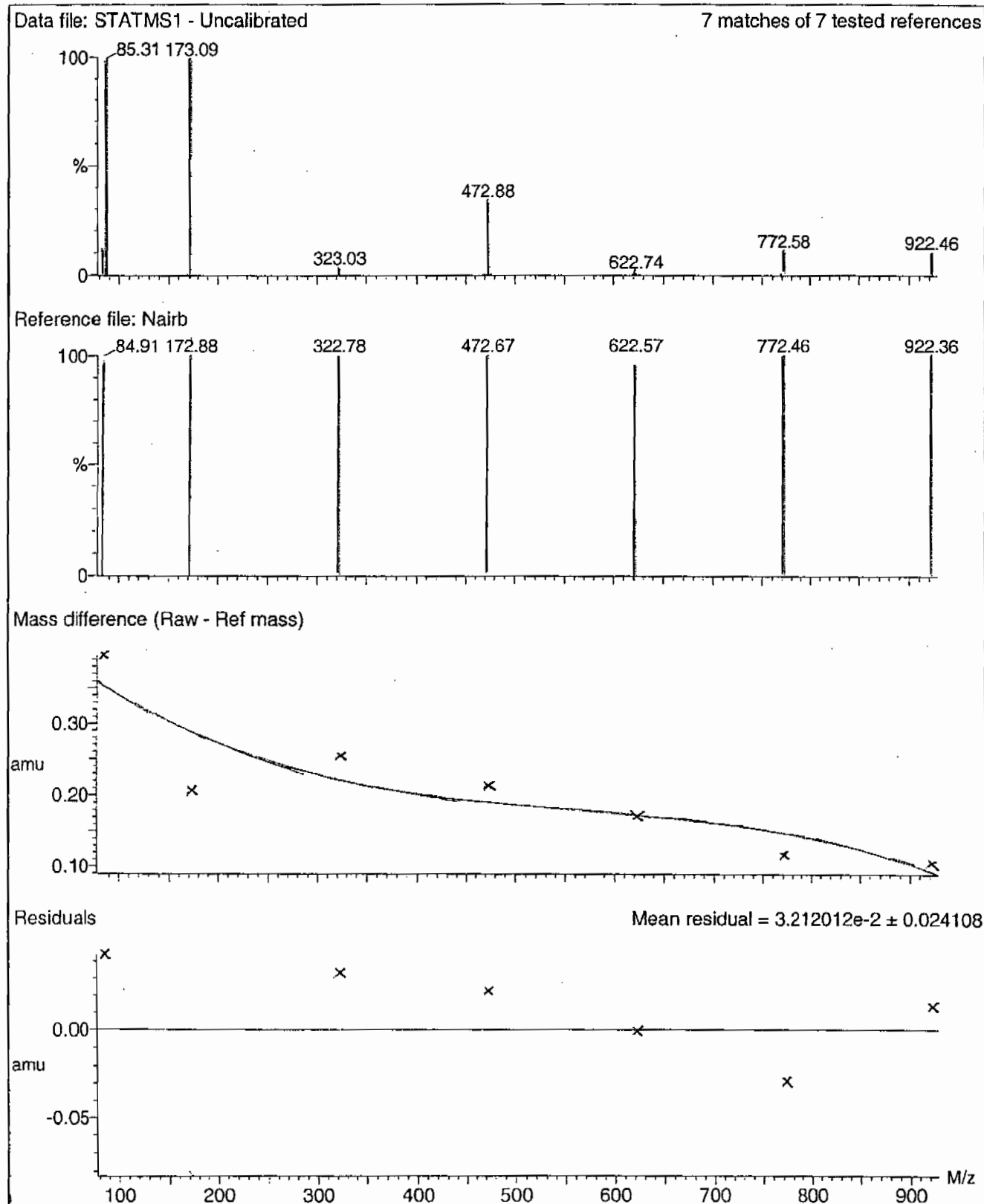
QUATRO ULTIMA: nairb_01_08_08.cal

Calibration Report - MS1 Static

Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

POINTS HIGHLIGHTED BY CURVE 01-08-08



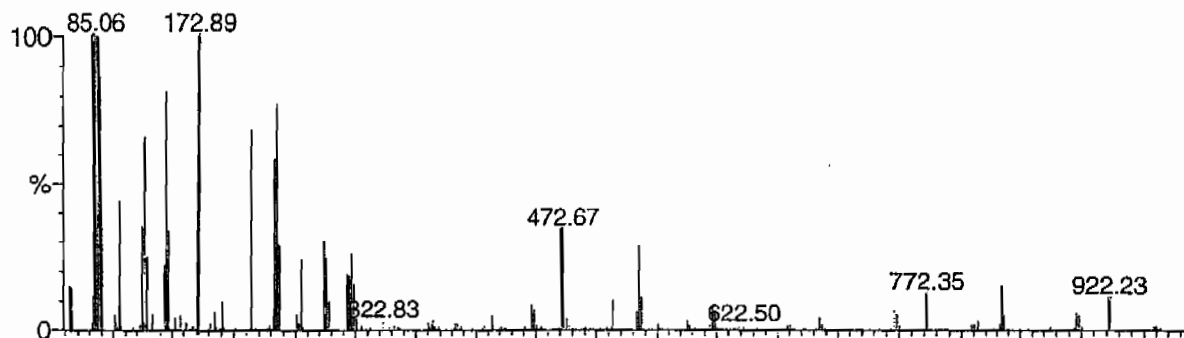
Calibration Report - MS1 Scanning

Page 1 of 1

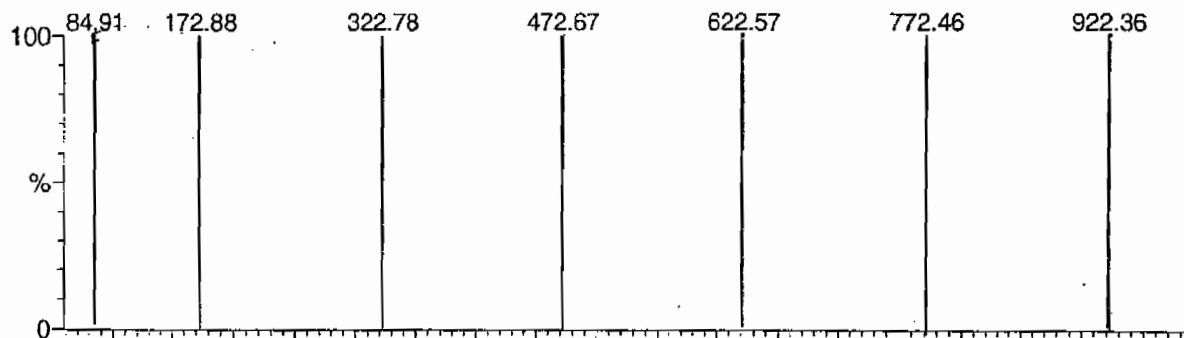
Printed: Tue Jan 08 12:20:09 2008

Data file: SCNMS1 - Uncalibrated

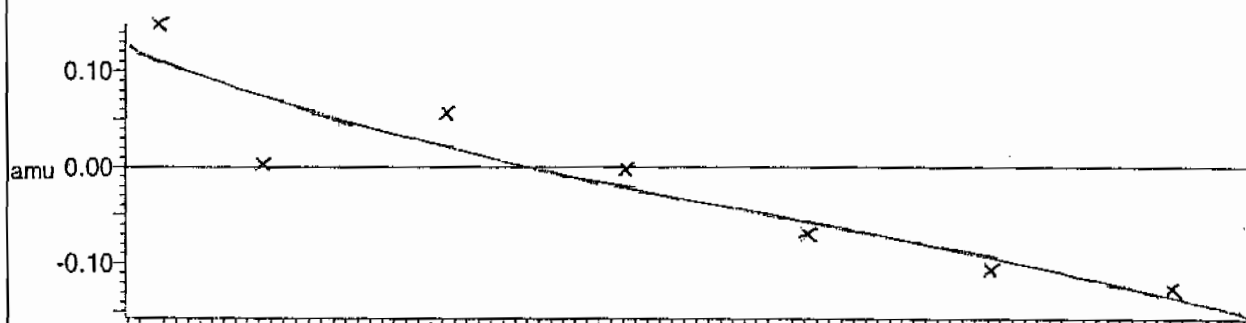
7 matches of 7 tested references



Reference file: Nairb

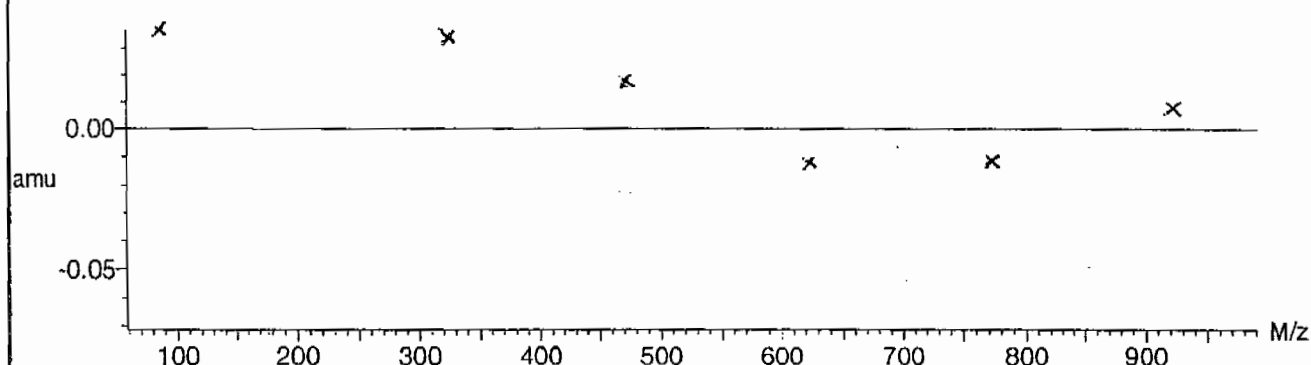


Mass difference (Raw - Ref mass)



Residuals

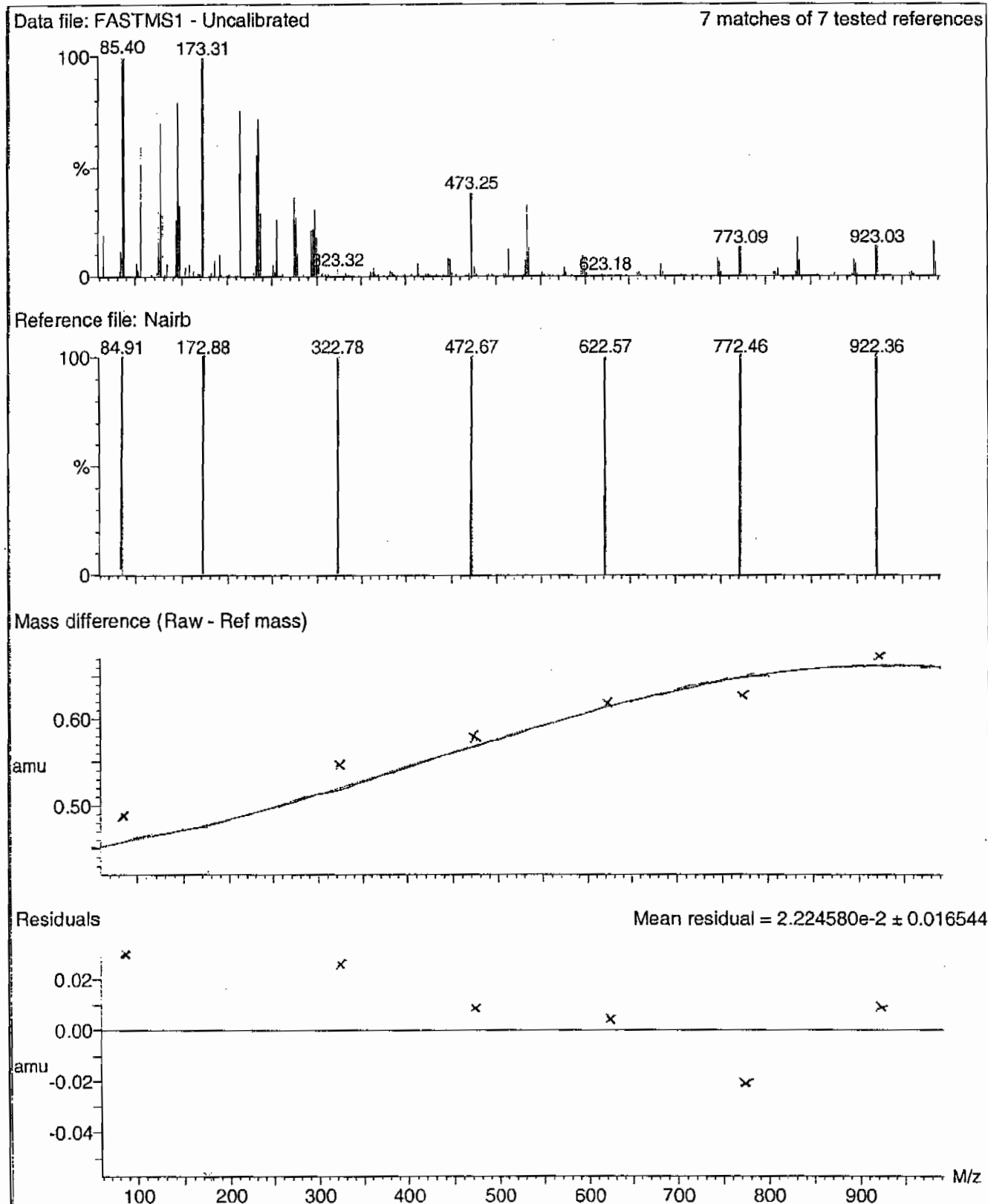
Mean residual = $2.732691 \times 10^{-2} \pm 0.020653$



Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

Printed: Tue Jan 08 12:21:04 2008



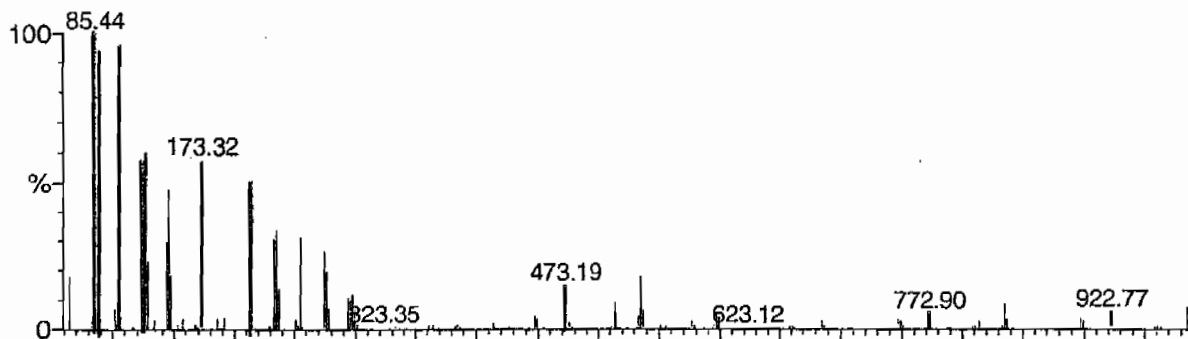
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

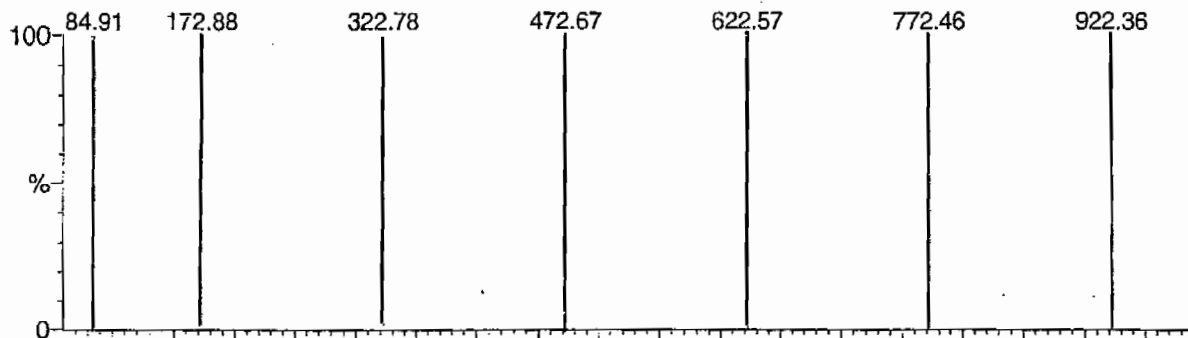
Printed: Tue Jan 08 12:23:51 2008

Data file: FASTMS2 - Uncalibrated

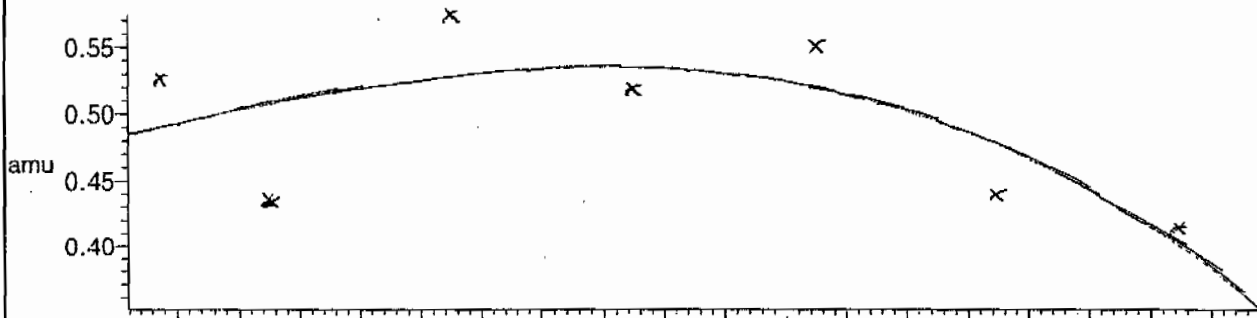
7 matches of 7 tested references



Reference file: Nairb

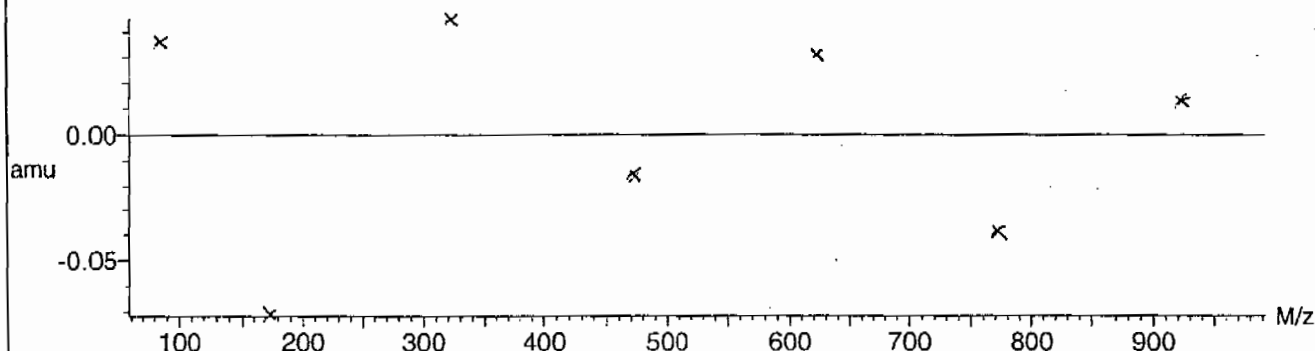


Mass difference (Raw - Ref mass)



Residuals

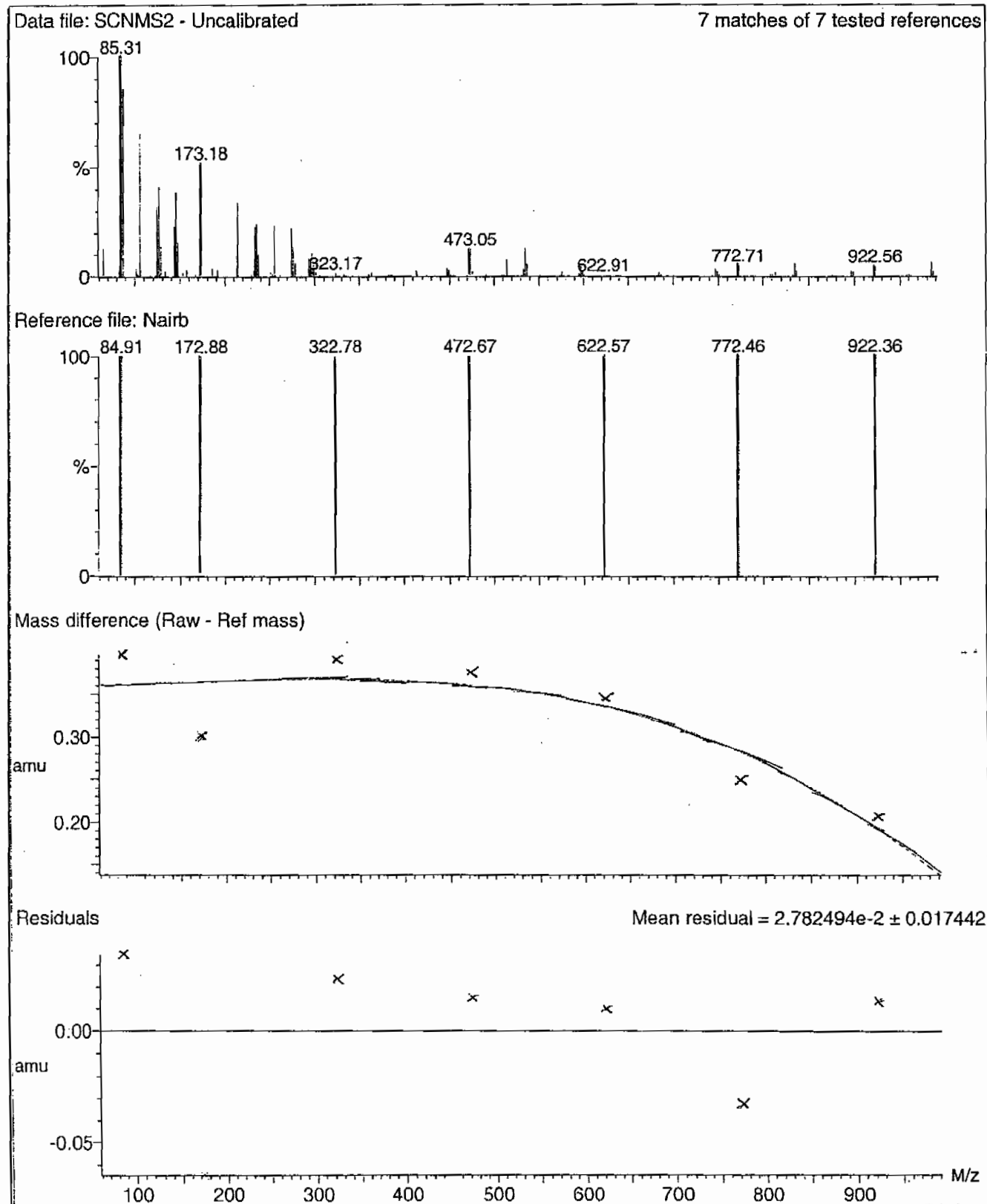
Mean residual = $3.598289 \times 10^{-2} \pm 0.017899$



Calibration Report - MS2 Scanning

Page 1 of 1

Printed: Tue Jan 08 12:22:56 2008



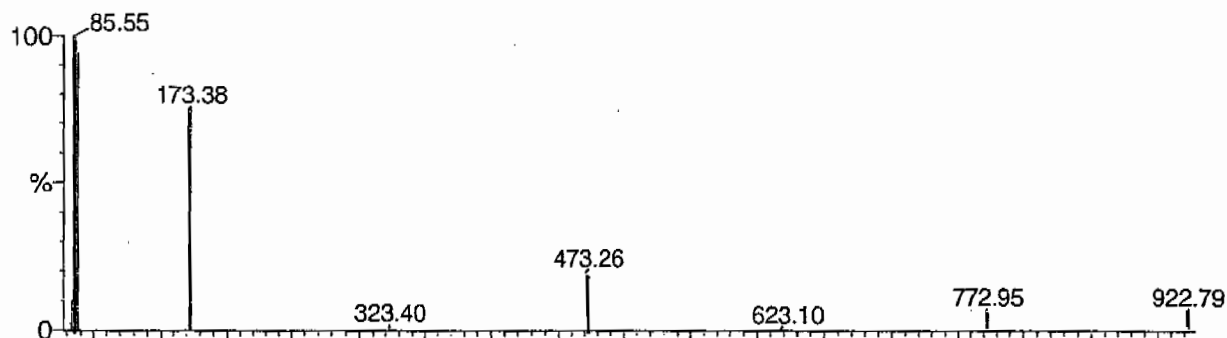
Calibration Report - MS2 Static

Page 1 of 1

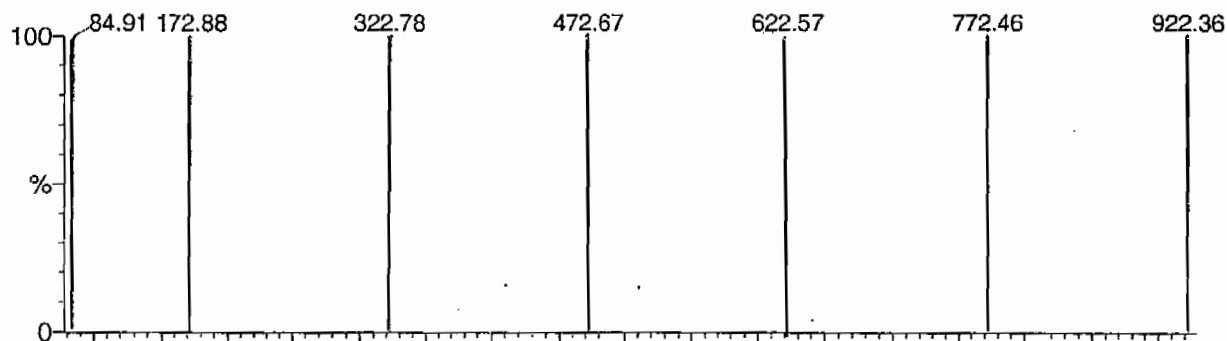
Printed: Tue Jan 08 12:21:59 2008

Data file: STATMS2 - Uncalibrated

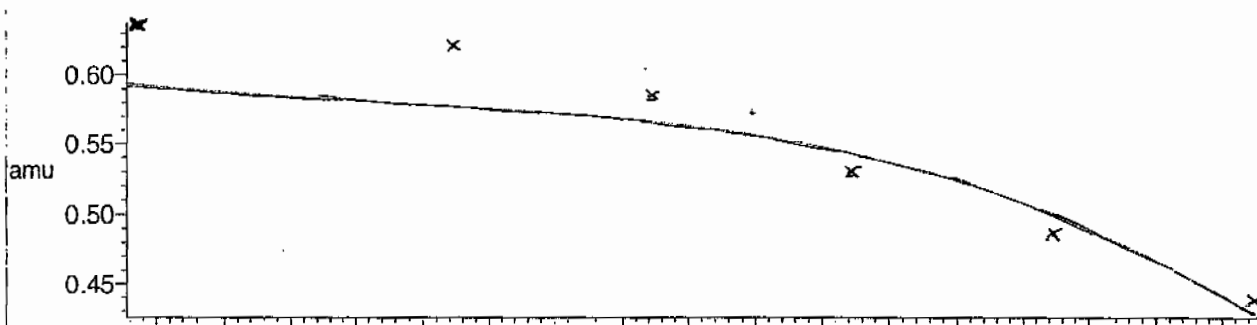
7 matches of 7 tested references



Reference file: Nairb

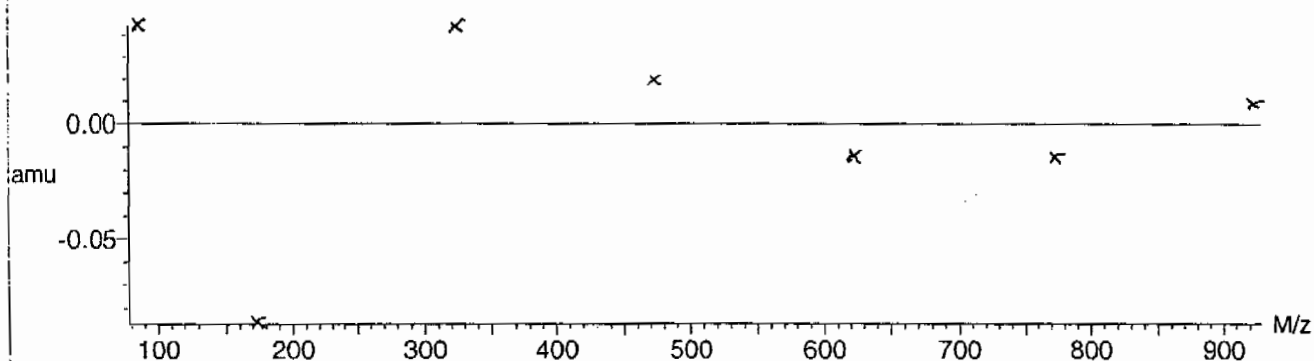


Mass difference (Raw - Ref mass)



Residuals

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



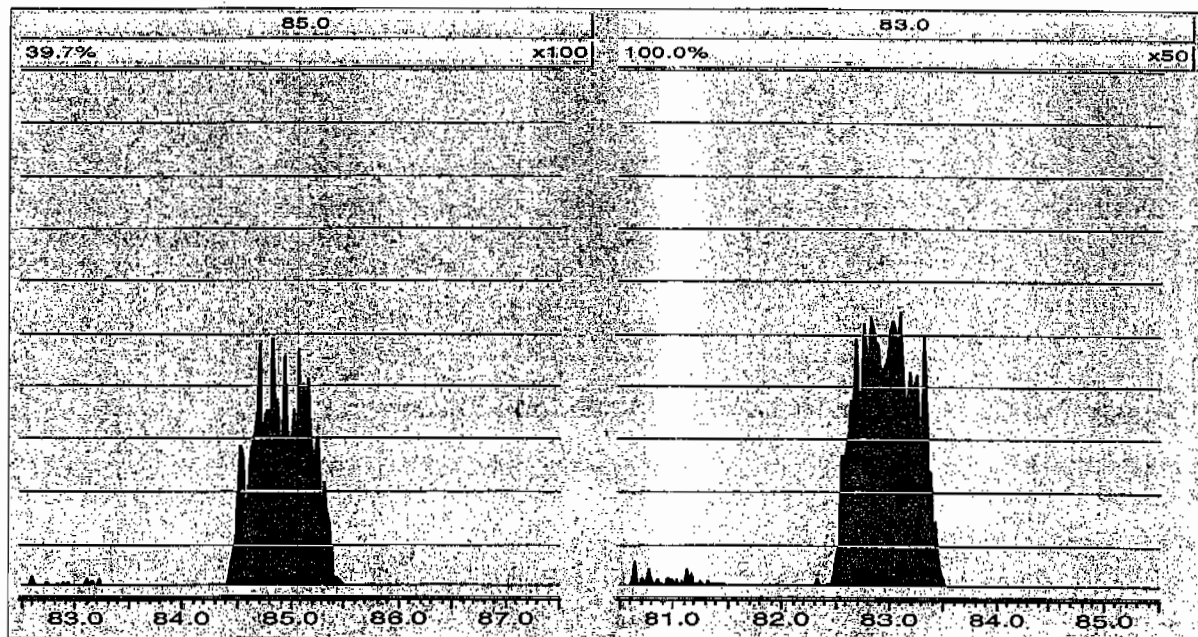
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Monday, March 08, 2010 10:18:13 Eastern Standard Time



Perchlorate RT And Area Summary

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

GEL Job No.(SDG): 10-2138Lab 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	per0308006a	08-MAR-10	19792.7				
Lower Area Limit			9896.35				
Upper Area Limit			39585.4				
1202056715	per0308107a	09-MAR-10 07:47	17439.3	3.43	3.44547	1.005	
1202056716	per0308108a	09-MAR-10 07:57	17560.8	3.43	3.44552	1.005	
1202056719	per0308109a	09-MAR-10 08:06	18097.8	3.43	3.44547	1.005	
248245001	per0308133a	09-MAR-10 11:43	18342.3	3.36	3.42068	1.018	

SAMPLE DATA

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: WATER

Extraction Batch ID: 259046

Extraction Type: Filter/DAI

Client Sample No.

RE36-10-8493

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138

GEL Sample ID: 248245001

Date Filtered: 05-MAR-10

Injection Volume (uL): 20

%Solids:

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	09-MAR-10 11:43	per0308133a
	Perchlorate Isotope Ratio						1	09-MAR-10 11:43	per0308133a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 11:43	per0308133a
	Perchlorate-O(18)			0.470	ug/L		1	09-MAR-10 11:43	per0308133a

[^] 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

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

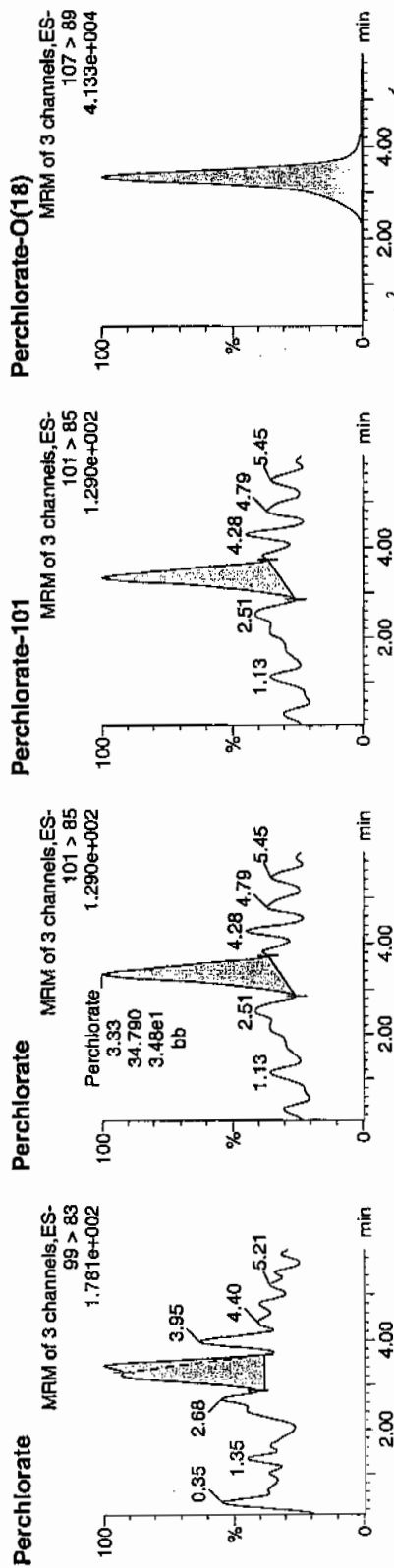
Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308133a
Date: 09-Mar-2010
Time: 11:43:56
ID: 248245001
Vial: 3:4,C

1222 | 959047 | L13 | 11

33-04-10

MANUAL



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248245001	Perchlorate	99 > 83	3.42	53.866	53.866	MM	09-Mar-10	12:53:31	0.0011			12.160	1.55
248245001	Perchlorate-101	101 > 85	3.33	34.790	34.790	bb			0.0024			31.134	
248245001	Perchlorate-O(18)	107 > 89	3.36	18342.346	18342.346	bb			0.4697	93.95	-6.05	2014.0...	

33-03-10/10
92.94
22.0500

STANDARDS DATA

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-2138

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 08-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: 47047.38
 Response Type: External Standard
 Curve Type: RF

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-2138

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 08-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: 14296.94

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\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per030810a.mdb 09 Mar 2010 12:48:33
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per030810a.cdb 09 Mar 2010 12:48:47

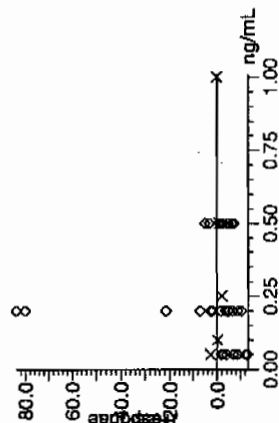
Compound name: Perchlorate

Response Factor: 47047.4

RRF SD: 838.521, % Relative SD: 1.78229

Response type: External Std, Area

Curve type: RF



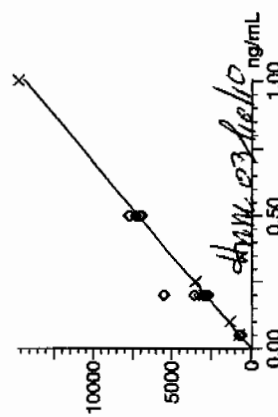
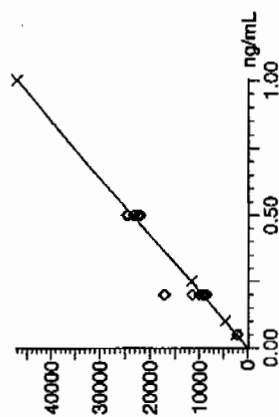
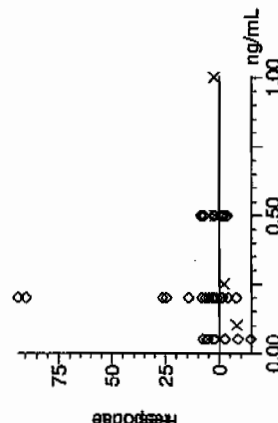
Compound name: Perchlorate-101

Response Factor: 14297

RRF SD: 749.315, % Relative SD: 5.24108

Response type: External Std, Area

Curve type: RF



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

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

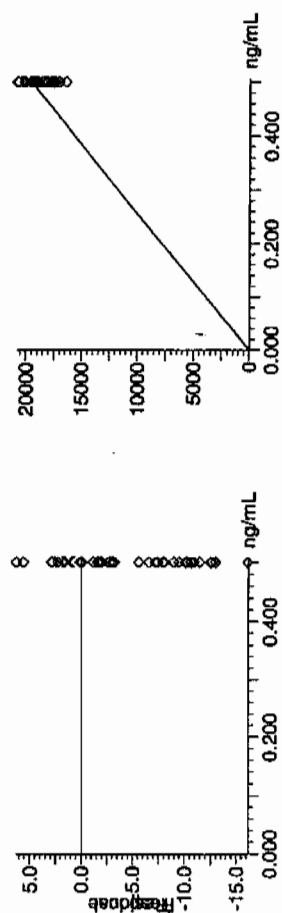
Compound name: Perchlorate-O(18)

Response Factor: 39049

RRF SD: 832.552, % Relative SD: 2.13207

Response type: External Std, Area

Curve type: RF,



Form 3

Perchlorate Initial Calibration Verification

GEL Job No.(SDG): 10-2138

Lab Name: General Engineering Laboratories

Lab Code: GEL

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

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.53	105.14	08-MAR-10 16:57	per0308009a
Perchlorate Isotope Ratio		3.18		08-MAR-10 16:57	per0308009a
Perchlorate-101	.5	.54	108.66	08-MAR-10 16:57	per0308009a

Quantify Sample Report MassLynx 4.0 SP4

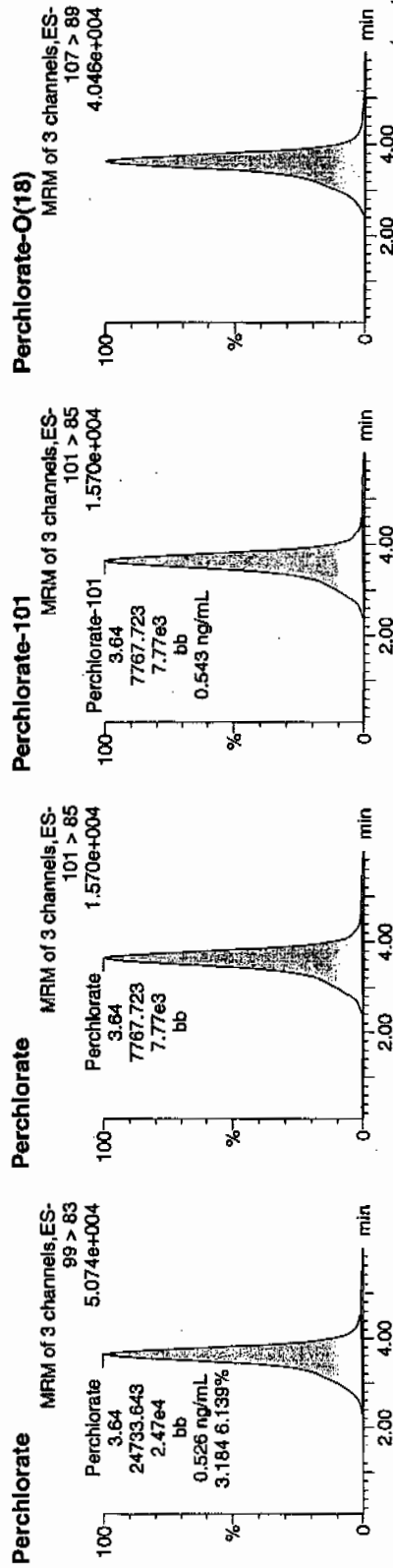
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308009a
Date: 08-Mar-2010
Time: 16:57:17
ID: WCL100227-06ICV
Vial: 1:2,A

Pure
GWS
3704-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06ICV	Perchlorate	99 > 83	3.64	24733.643	24733.643	bb			0.5257	105.14	5.14	543.107	3.18
WCL100227-06ICV	Perchlorate-101	101 > 85	3.64	7767.723	7767.723	bb			0.5433	108.66	8.66	159.570	
WCL100227-06ICV	Perchlorate-O(18)	107 > 89	3.63	19967.303	19967.303	bb			0.5113	102.27	2.27	1535.3...	

Perchlorate Continuing Calibration Verification

GEL Job No.(SDG): 10-2138

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.52	103.28	08-MAR-10 18:46	per0308021a
Perchlorate Isotope Ratio		3.14		08-MAR-10 18:46	per0308021a
Perchlorate-101	.5	.54	108.41	08-MAR-10 18:46	per0308021a
Perchlorate	.5	.53	105.15	08-MAR-10 20:44	per0308034a
Perchlorate Isotope Ratio		3.23		08-MAR-10 20:44	per0308034a
Perchlorate-101	.5	.54	107.08	08-MAR-10 20:44	per0308034a
Perchlorate	.5	.52	103.16	08-MAR-10 22:42	per0308047a
Perchlorate Isotope Ratio		3.13		08-MAR-10 22:42	per0308047a
Perchlorate-101	.5	.54	108.56	08-MAR-10 22:42	per0308047a
Perchlorate	.5	.5	99.29	09-MAR-10 00:40	per0308060a
Perchlorate Isotope Ratio		3.17		09-MAR-10 00:40	per0308060a
Perchlorate-101	.5	.51	102.95	09-MAR-10 00:40	per0308060a
Perchlorate	.5	.48	95.1	09-MAR-10 02:38	per0308073a

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2138

Lab Code: GEL

Reporting Units: ug/L

Perchlorate Isotope Ratio		3.07		09-MAR-10 02:38	per0308073a
Perchlorate-101	.5	.51	101.9	09-MAR-10 02:38	per0308073a
Perchlorate	.5	.46	92.67	09-MAR-10 04:36	per0308086a
Perchlorate Isotope Ratio		3.1		09-MAR-10 04:36	per0308086a
Perchlorate-101	.5	.49	98.48	09-MAR-10 04:36	per0308086a
Perchlorate	.5	.47	93.76	09-MAR-10 06:34	per0308099a
Perchlorate Isotope Ratio		3.2		09-MAR-10 06:34	per0308099a
Perchlorate-101	.5	.48	96.42	09-MAR-10 06:34	per0308099a
Perchlorate	.5	.48	95.65	09-MAR-10 08:33	per0308112a
Perchlorate Isotope Ratio		3.22		09-MAR-10 08:33	per0308112a
Perchlorate-101	.5	.49	97.77	09-MAR-10 08:33	per0308112a
Perchlorate	.5	.49	97.67	09-MAR-10 10:31	per0308125a
Perchlorate Isotope Ratio		3.13		09-MAR-10 10:31	per0308125a

Form 3

Perchlorate Continuing Calibration Verification

GEL Job No.(SDG): 10-2138

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

Perchlorate-101	.5	.51	102.74	09-MAR-10 10:31	per0308125a
Perchlorate	.5	.49	98.5	09-MAR-10 12:20	per0308137a
Perchlorate Isotope Ratio		3.26		09-MAR-10 12:20	per0308137a
Perchlorate-101	.5	.5	99.33	09-MAR-10 12:20	per0308137a

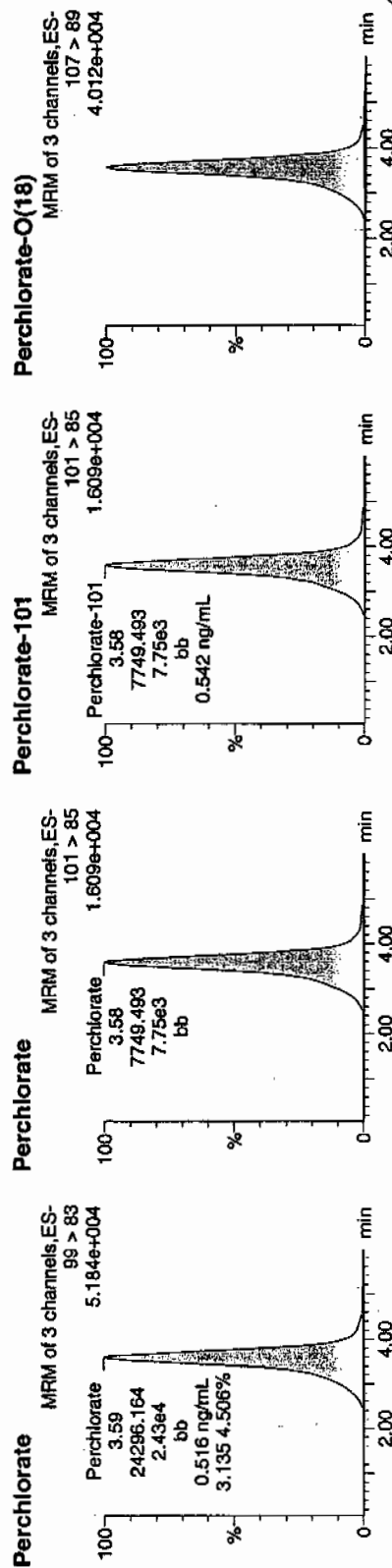
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308021a
Date: 08-Mar-2010
Time: 18:46:13
ID: WCL100227-06CCV
Vial: 1:2.A

Pure
030910



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.59	24296.164	24296.164	bb			0.5164	103.28	3.28	2058.4...	3.14
WCL100227-06CCV	Perchlorate-101	101 > 85	3.58	7749.493	7749.493	bb			0.5420	108.41	8.41	842.163	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.57	18892.500	18892.500	bb			0.4838	96.76	-3.24	3961.4...	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308034a

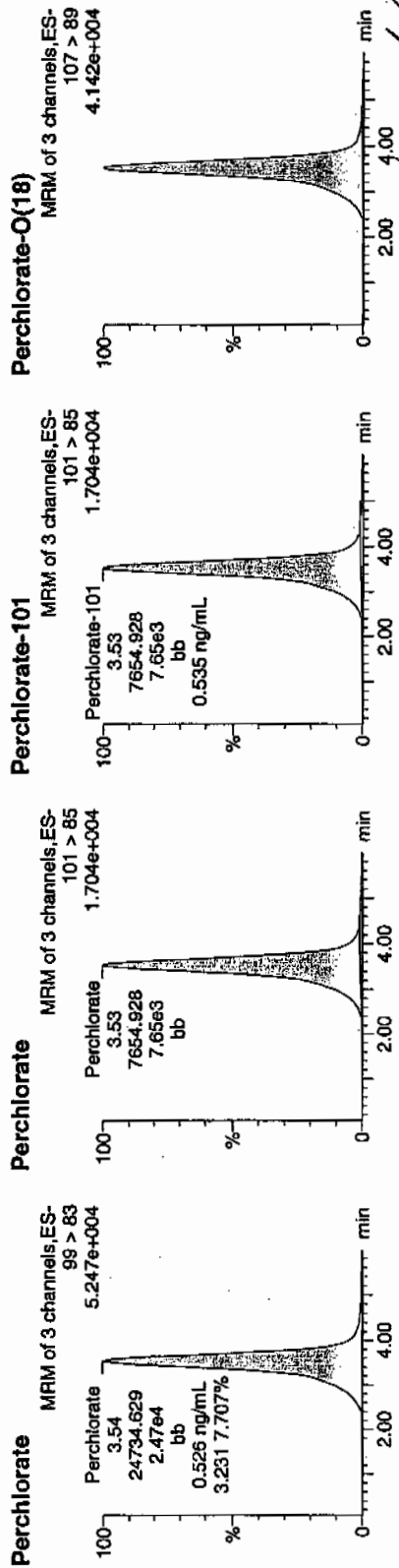
Date: 08-Mar-2010

Time: 20:44:08

ID: WCL100227-06CCV

Vial: 1:2,A

Per
03-09-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.54	24734.629	24734.629	bb			0.5257	105.15	5.15	2200.8...	3.23
WCL100227-06CCV	Perchlorate-101	101 > 85	3.53	7654.928	7654.928	bb			0.5354	107.06	7.08	2331.5...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.53	19141.506	19141.506	bb			0.4902	98.04	-1.96	1232.7...	

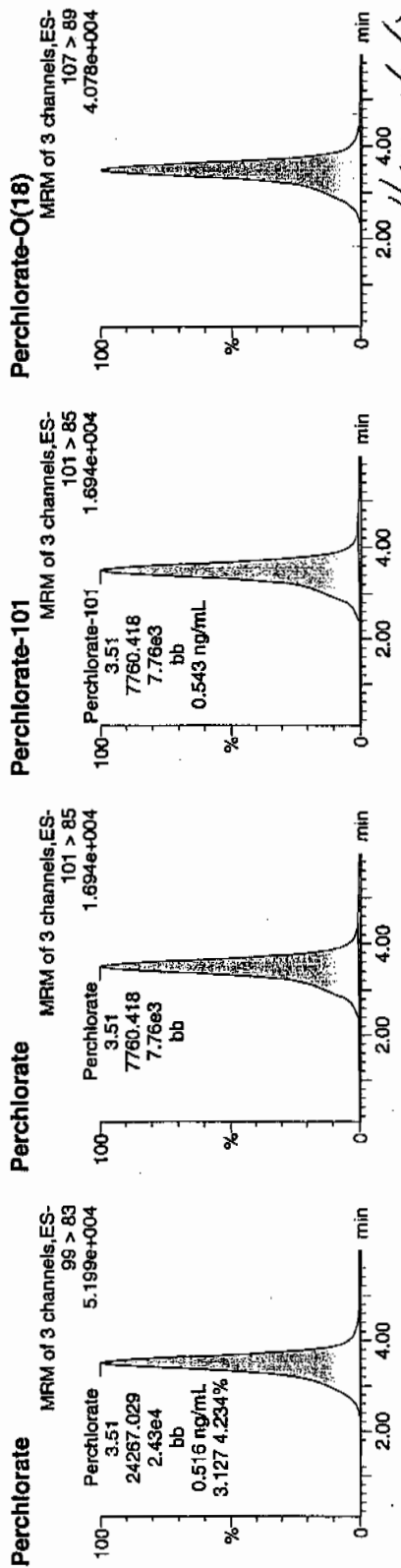
Quantity Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308047a
Date: 08-Mar-2010
Time: 22:42:18
ID: WCL100227-06CCV
Vial: 1:2,A

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and
03-09-10



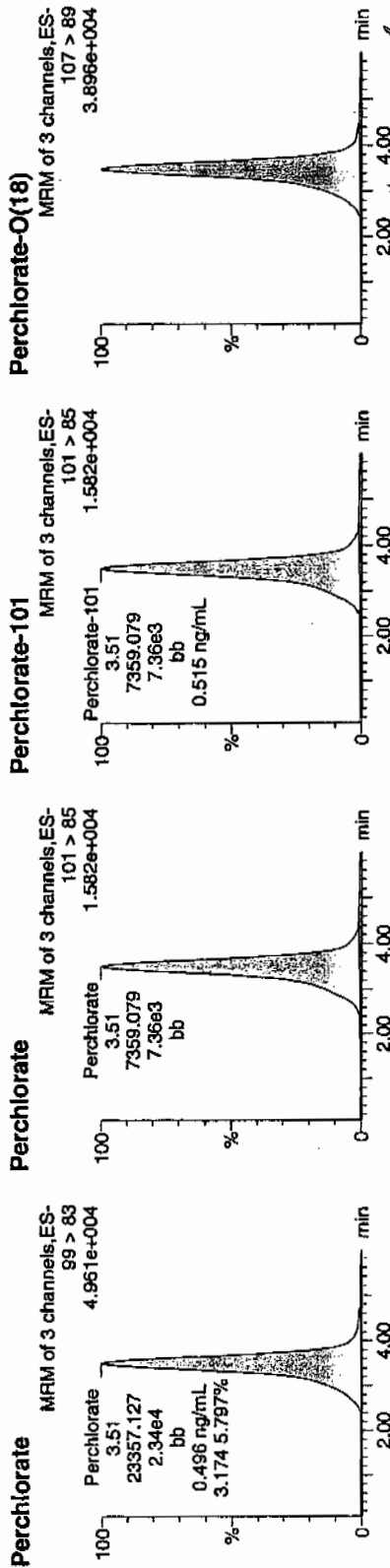
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WCL100227-06CCV	Perchlorate-101	101 > 85	3.51	7760.418	7760.418	bb			0.5428	108.56	8.56	1343.7...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.50	18936.834	18936.834	bb			0.4849	96.99	-3.01	1821.0...	

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308060a
Date: 09-Mar-2010
Time: 00:40:46
ID: WCL100227-06CCV
Vial: 1:2,A

Pure
and
03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.51	23357.127	23357.127	bb		-0.4965	99.29	-0.71	1630.4...	3.17
WCL100227-06CCV	Perchlorate-101	101 > 85	3.51	7359.079	7359.079	bb		0.5147	102.95	2.95	1965.3...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.48	18080.102	18080.102	bb		0.4630	92.60	-7.40	1265.2...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308073a

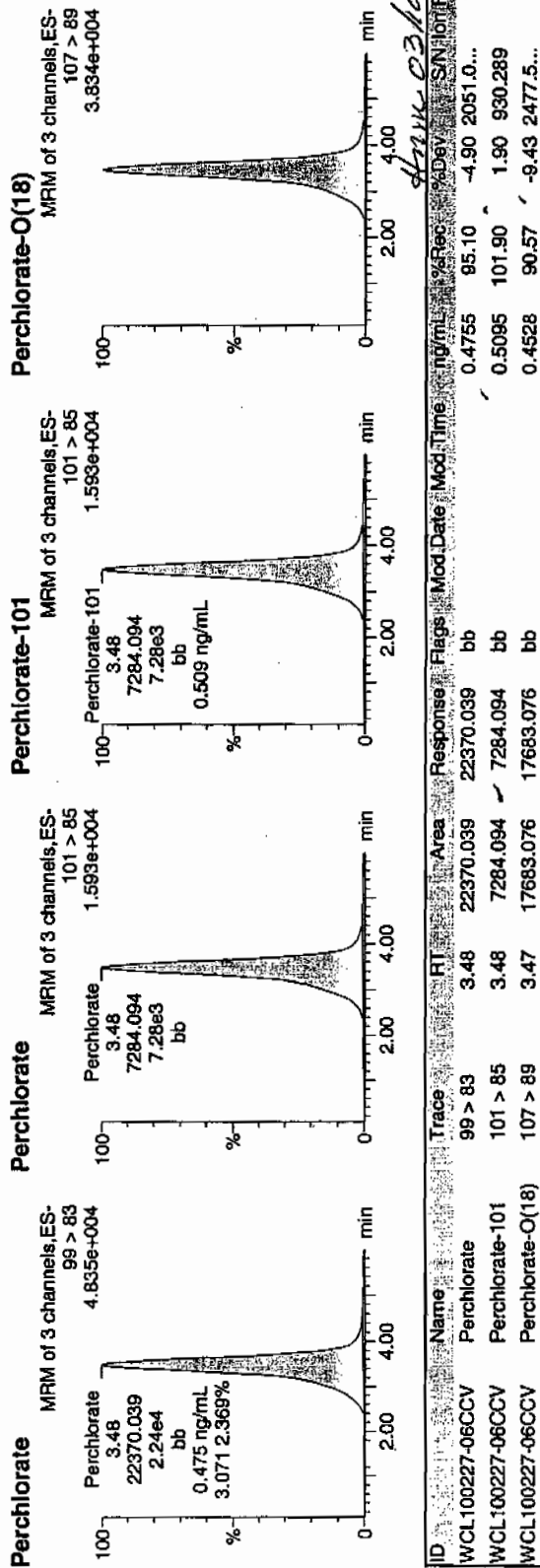
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Time: 02:38:45

ID: WCL100227-06CCV

Vial: 1:2,A

Per
03-04-10



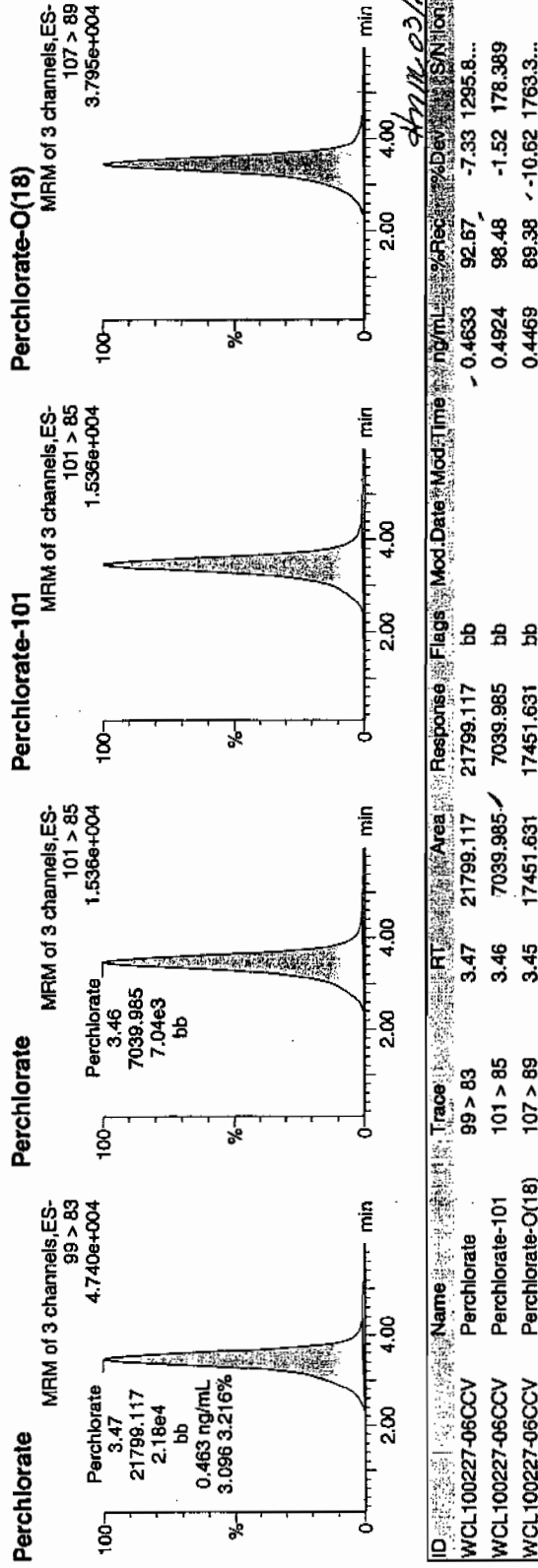
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308086a
Date: 09-Mar-2010
Time: 04:36:48
ID: WCL100227-06CCV
Vial: 1:2,A

Per 3.795e+004



4/11/10 03:10/10

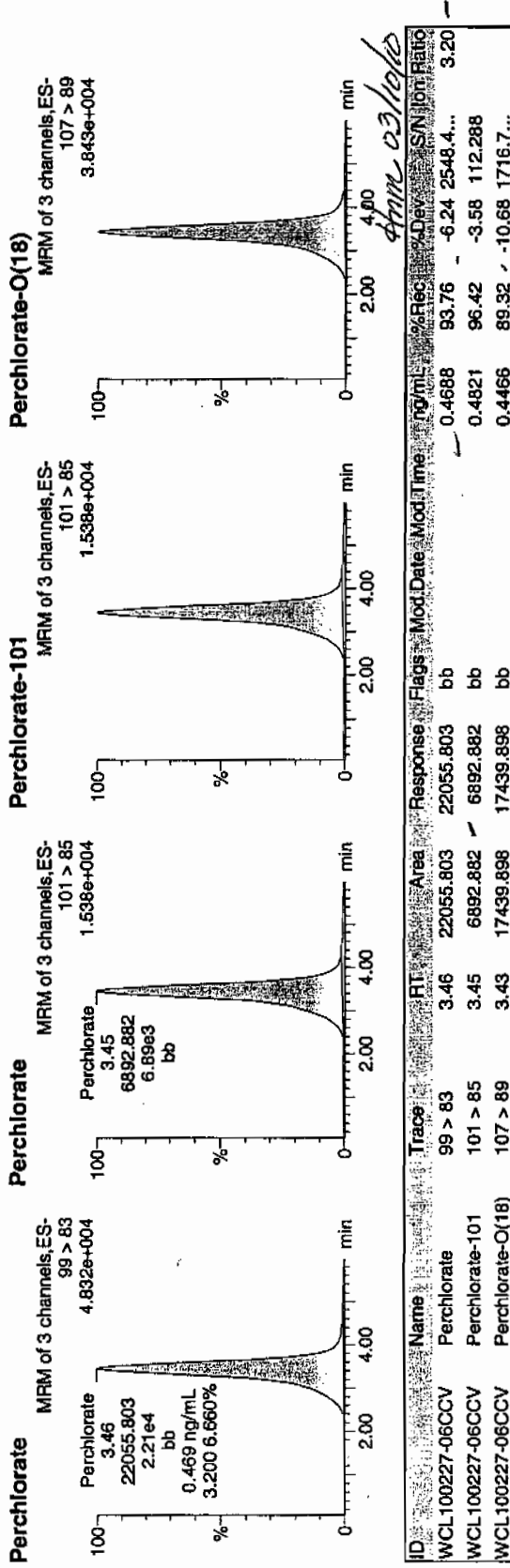
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308099a
Date: 09-Mar-2010
Time: 06:34:54
ID: WCL100227-06CCV
Vial: 1:2,A

Per
WCL
03-04-10



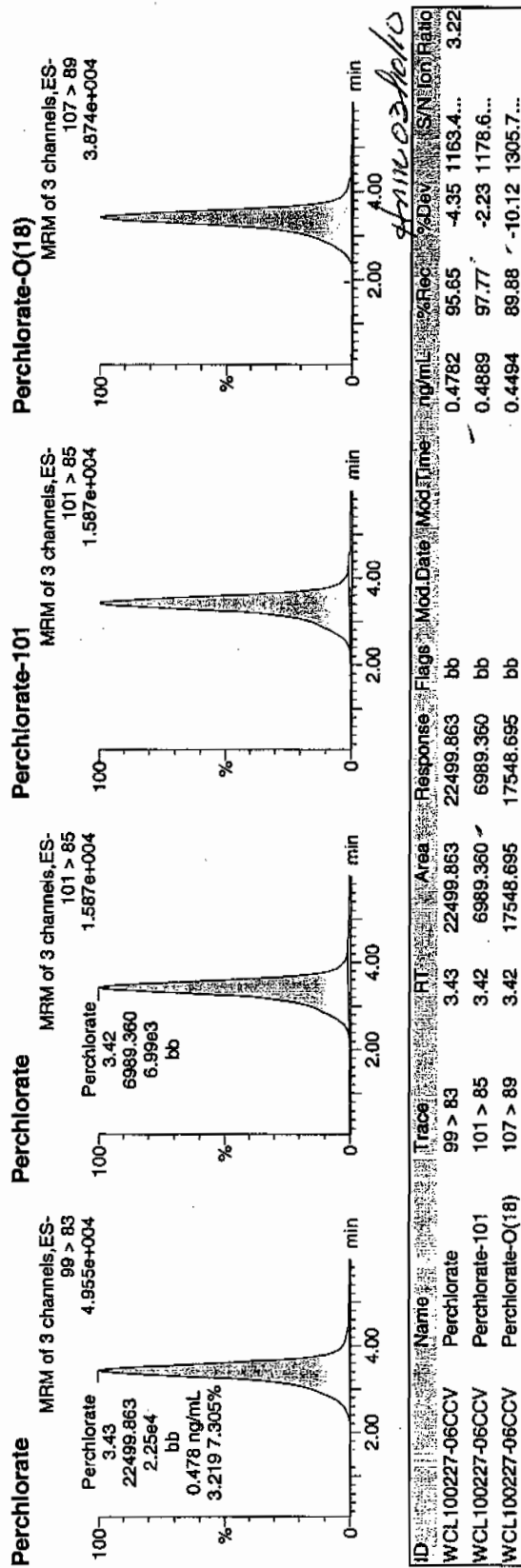
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308112a
Date: 09-Mar-2010
Time: 08:33:18
ID: WCL100227-06CCV
Vial: 1:2,A

Pass
03-04-10



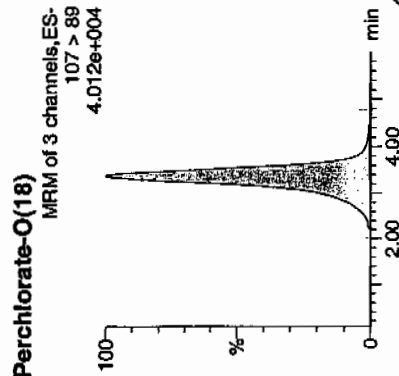
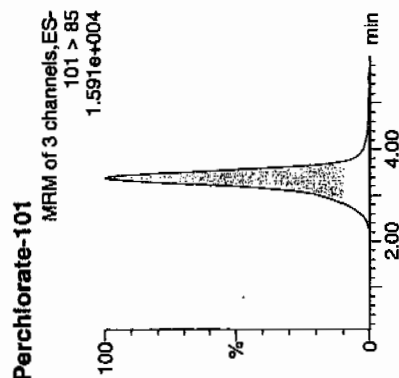
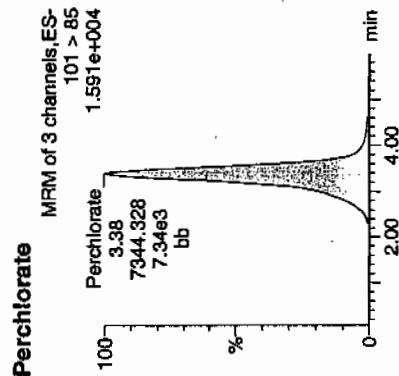
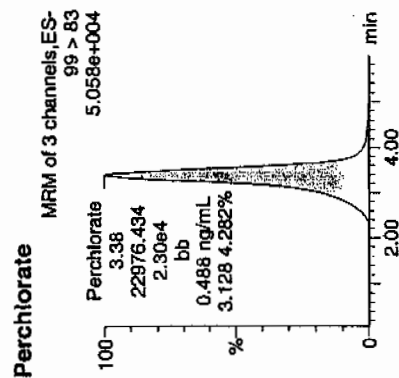
ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.43	22499.863	22499.863	bb			0.4782	95.65	-4.35	1163.4...	3.22
WCL100227-06CCV	Perchlorate-101	101 > 85	3.42	6989.360	6989.360	bb			0.4889	97.77	-2.23	1178.6...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.42	17548.695	17548.695	bb			0.4494	89.88	-10.12	1305.7...	

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308125a
Date: 09-Mar-2010
Time: 10:31:13
ID: WCL100227-06CCV
Vial: 1:2,A

*Per
WCL
03-09-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.38	22976.434	22976.434	bb			0.4884	97.67	-2.33	1860.6...	3.13
WCL100227-06CCV	Perchlorate-101	101 > 85	3.38	7344.328	7344.328	bb			0.5137	102.74	2.74	1120.5...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.37	18131.313	18131.313	bb			0.4643	92.86	-7.14	3111.2...	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time

Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

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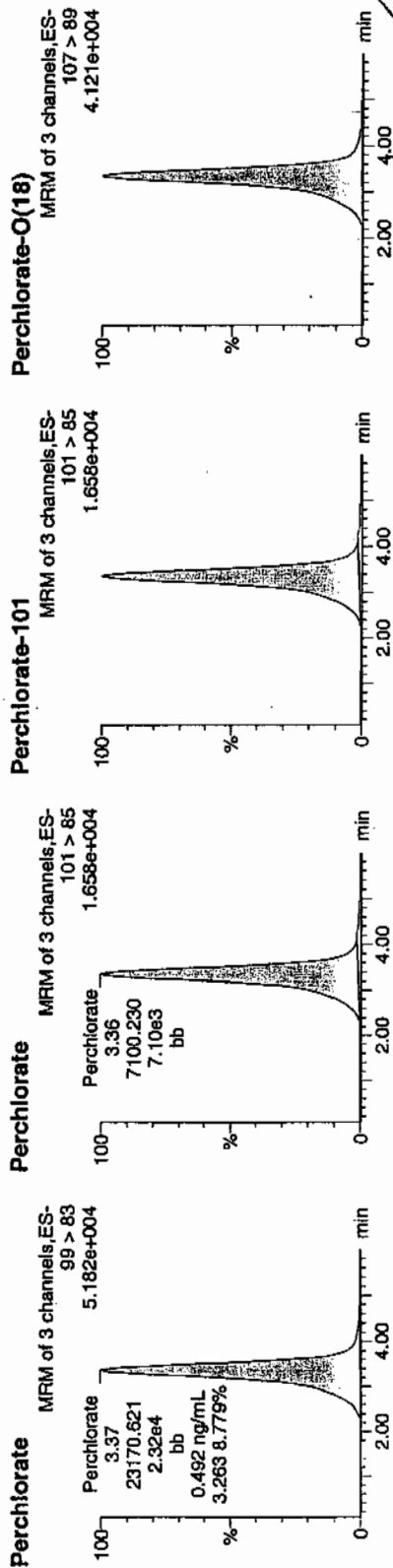
Date: 09-Mar-2010

Time: 12:20:04

ID: WCL100227-06CCV

Vial: 1:2,A

Pure
WCL
03-04-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.37	23170.621	23170.621	bb			0.4925	98.50	-1.50	1798.3...	3.26
WCL100227-06CCV	Perchlorate-101	101 > 85	3.36	7100.230	7100.230	bb			0.4966	99.33	-0.67	581.515	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.35	18247.238	18247.238	bb			0.4673	93.46	-6.54	3807.5...	

Perchlorate MDL Verification

GEL Job No.(SDG): 10-2138

Lab Name: General Engineering Laboratories

Lab Code: GEL

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

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	91.57	08-MAR-10 17:15	per0308011a
Perchlorate Isotope Ratio		2.95		08-MAR-10 17:15	per0308011a
Perchlorate-101	.05	.05	102.06	08-MAR-10 17:15	per0308011a
Perchlorate	.05	.05	97.28	08-MAR-10 19:04	per0308023a
Perchlorate Isotope Ratio		2.97		08-MAR-10 19:04	per0308023a
Perchlorate-101	.05	.05	107.82	08-MAR-10 19:04	per0308023a
Perchlorate	.05	.05	97.48	08-MAR-10 21:02	per0308036a
Perchlorate Isotope Ratio		3.14		08-MAR-10 21:02	per0308036a
Perchlorate-101	.05	.05	102.17	08-MAR-10 21:02	per0308036a
Perchlorate	.05	.05	98.41	08-MAR-10 23:00	per0308049a
Perchlorate Isotope Ratio		3.08		08-MAR-10 23:00	per0308049a

Perchlorate MDL Verification

GEL Job No.(SDG): 10-2138

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

Perchlorate-101	.05	.05	105.1	08-MAR-10 23:00	per0308049a
Perchlorate	.05	.05	92.76	09-MAR-10 00:59	per0308062a
Perchlorate Isotope Ratio		3.13		09-MAR-10 00:59	per0308062a
Perchlorate-101	.05	.05	97.6	09-MAR-10 00:59	per0308062a
Perchlorate	.05	.04	87.02	09-MAR-10 02:57	per0308075a
Perchlorate Isotope Ratio		2.95		09-MAR-10 02:57	per0308075a
Perchlorate-101	.05	.05	97.15	09-MAR-10 02:57	per0308075a
Perchlorate	.05	.04	88.07	09-MAR-10 04:55	per0308088a
Perchlorate Isotope Ratio		2.98		09-MAR-10 04:55	per0308088a
Perchlorate-101	.05	.05	97.34	09-MAR-10 04:55	per0308088a
Perchlorate	.05	.05	93.32	09-MAR-10 06:53	per0308101a

Perchlorate MDL Verification

GEL Job No.(SDG): 10-2138

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

Perchlorate Isotope Ratio			3.36		09-MAR-10 06:53	per0308101a
Perchlorate-101	.05		.05	91.41	09-MAR-10 06:53	per0308101a
Perchlorate	.05		.05	96.02	09-MAR-10 08:51	per0308114a
Perchlorate Isotope Ratio			3.69		09-MAR-10 08:51	per0308114a
Perchlorate-101	.05		.04	85.66	09-MAR-10 08:51	per0308114a
Perchlorate	.05		.05	91.03	09-MAR-10 10:49	per0308127a
Perchlorate Isotope Ratio			2.91		09-MAR-10 10:49	per0308127a
Perchlorate-101	.05		.05	103.09	09-MAR-10 10:49	per0308127a
Perchlorate	.05		.04	87.93	09-MAR-10 12:38	per0308139a
Perchlorate Isotope Ratio			2.72		09-MAR-10 12:38	per0308139a
Perchlorate-101	.05		.05	106.27	09-MAR-10 12:38	per0308139a

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time

Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308011a

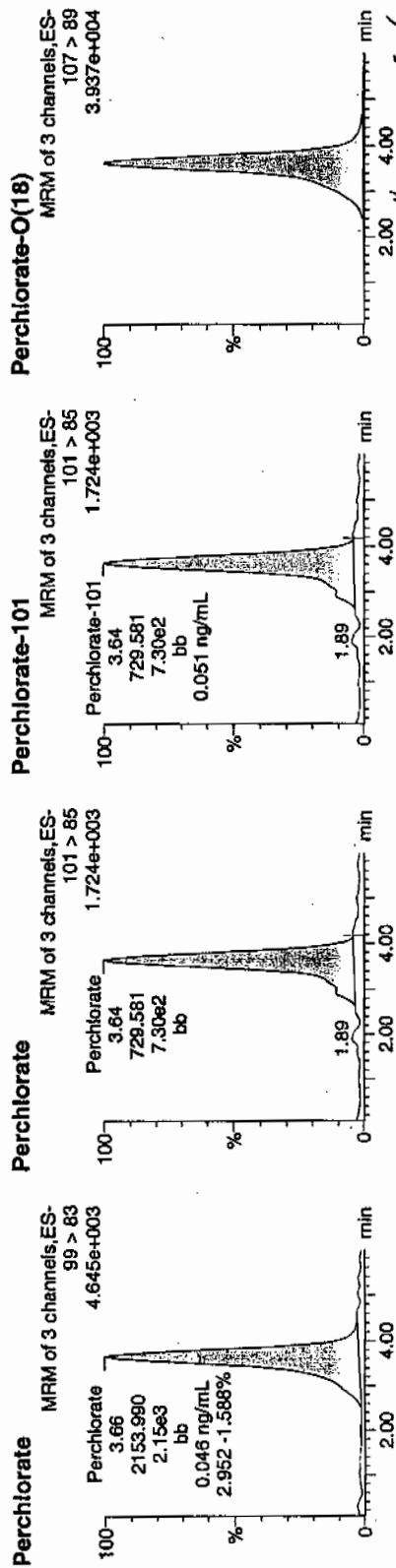
Date: 08-Mar-2010

Time: 17:15:29

ID: WCL100227-07CRI

Vial: 1:2,B

Per
03-09-10



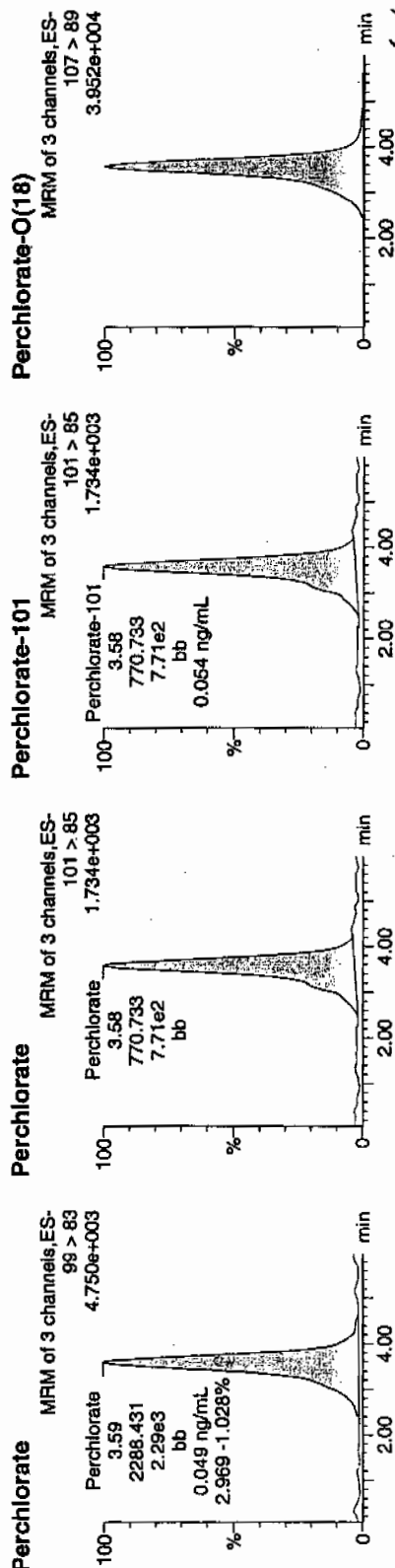
ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.66	2153.990	2153.990	bb			0.0458	91.57	-8.43	192.273	2.95
WCL100227-07CRI	Perchlorate-101	101 > 85	3.64	729.581	729.581	bb			0.0510	102.06	2.06	143.835	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.63	19505.877	19505.877	bb			0.4995	99.90	-0.10	1304.1...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308023a
Date: 08-Mar-2010
Time: 19:04:27
ID: WCL100227-07CRI
Vial: 1:2,B



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.59	2288.431	2288.431	bb			0.0486	97.28	-2.72	379.669	2.97
WCL100227-07CRI	Perchlorate-101	101 > 85	3.58	770.733	770.733	bb			0.0539	107.82	7.82	84.015	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.57	18985.990	18985.990	bb			0.4862	97.24	-2.76	3992.9...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308036a

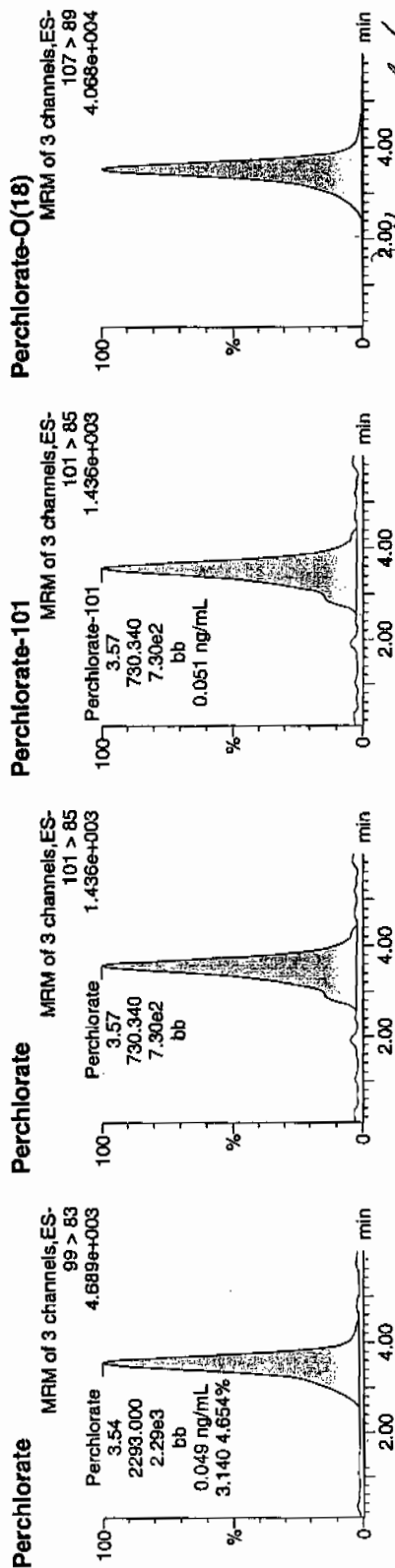
Date: 08-Mar-2010

Time: 21:02:14

ID: WCL100227-07CRI

Vial: 1:2,B

Pur and
03-04-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.54	2293.000	2293.000	bb			0.0487	97.48	-2.52	112.560	3.14
WCL100227-07CRI	Perchlorate-101	101 > 85	3.57	730.340	730.340	bb			0.0511	102.17	2.17	21.006	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.53	19152.959	19152.959	bb			0.4905	98.10	-1.90	2778.2...	

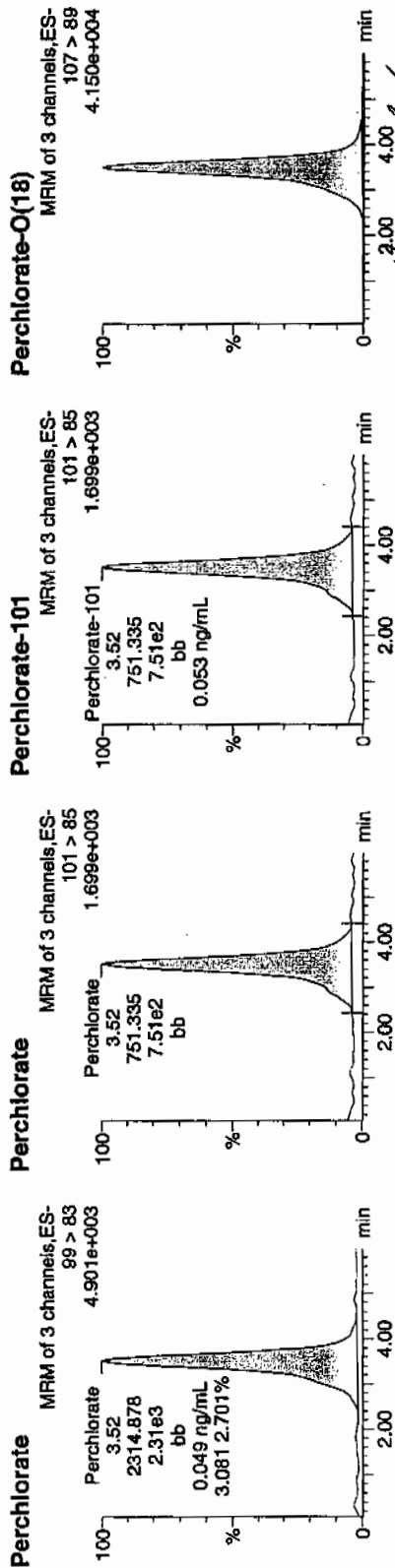
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308049a
Date: 08-Mar-2010
Time: 23:00:24
ID: WCL100227-07CRI
Vial: 1:2,B

Pure
avg
03-09-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.52	2314.878	2314.878	bb			0.0492	98.41	-1.59	318.865	3.08
WCL100227-07CRI	Perchlorate-101	101 > 85	3.52	751.335	751.335	bb			0.0526	105.10	5.10	86.661	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.51	19220.762	19220.762	bb			0.4922	98.44	-1.56	1856.7...	

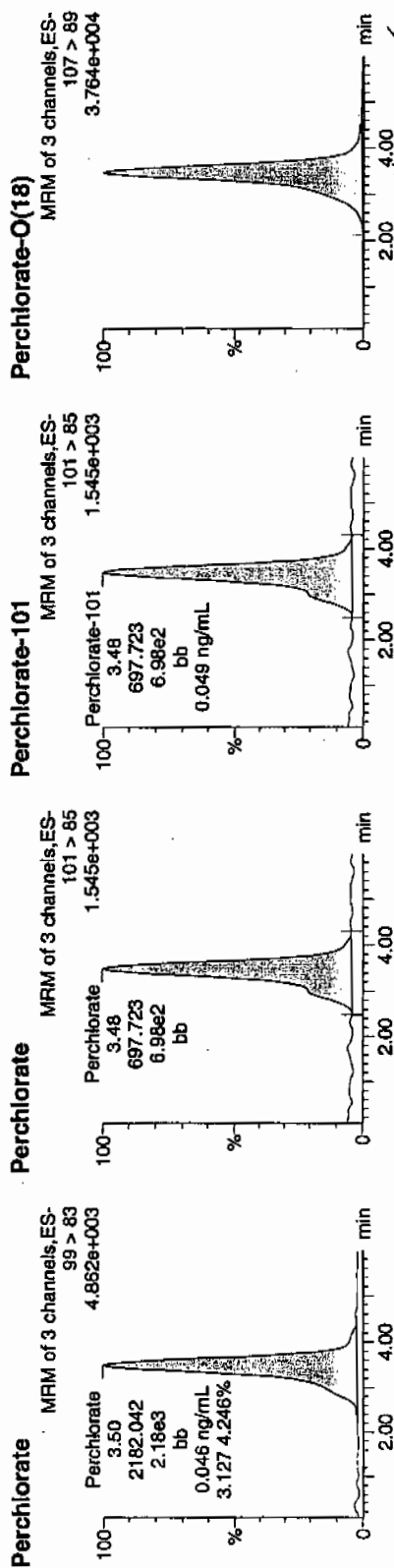
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308062a
Date: 09-Mar-2010
Time: 00:59:13
ID: WCL100227-07CRI
Vial: 1:2,B

*per
and
3304-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod Time	Mod Date	ng/mL	%Rec	%Dev	SN	Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.50	2182.042	2182.042	bb			0.0464	92.76	-7.24	176.942	3.13
WCL100227-07CRI	Perchlorate-101	101 > 85	3.48	697.723	697.723	bb			0.0488	97.60	-2.40	55.243	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.47	17393.770	17393.770	bb			0.4454	89.09	-10.91	764.961	

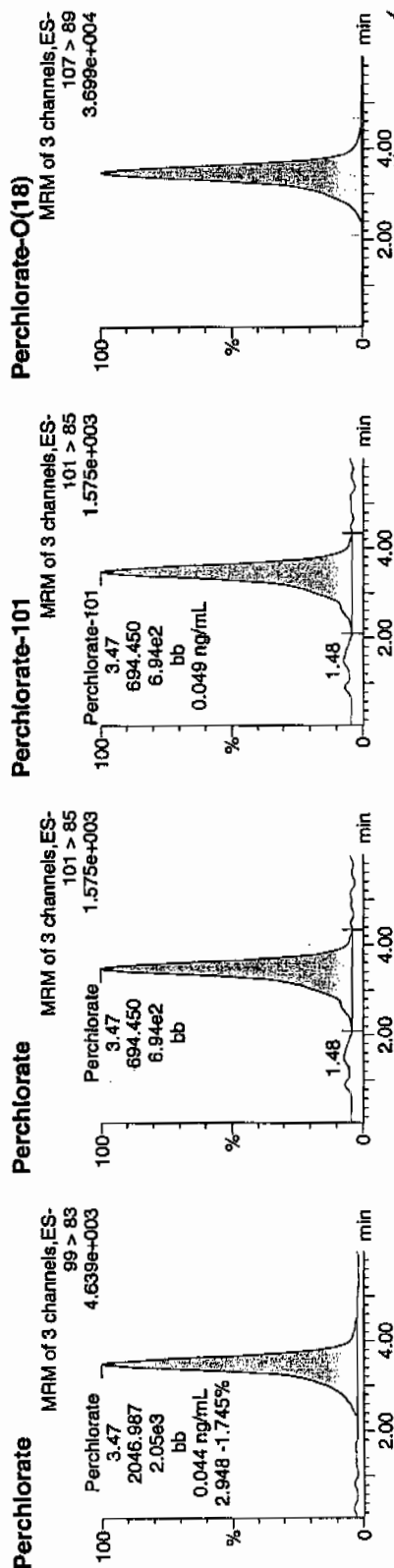
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308075a
Date: 09-Mar-2010
Time: 02:57:04
ID: WCL100227-07CRI
Vial: 1:2,B

Pure
and
03-09-10



ID	Name	Trace	RT	Area	Response	Flags	Mod. Date	Mod. Time	ng/mL	%Rec	%Dev	S/N	Int. Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.47	2046.987	2046.987	bb			0.0435	87.02	-12.98	175.388	2.95
WCL100227-07CRI	Perchlorate-101	101 > 85	3.47	694.450	694.450	bb			0.0486	97.15	-2.85	110.840	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.47	17056.256	17056.256	bb			0.4368	87.36	-12.64	2127.1...	

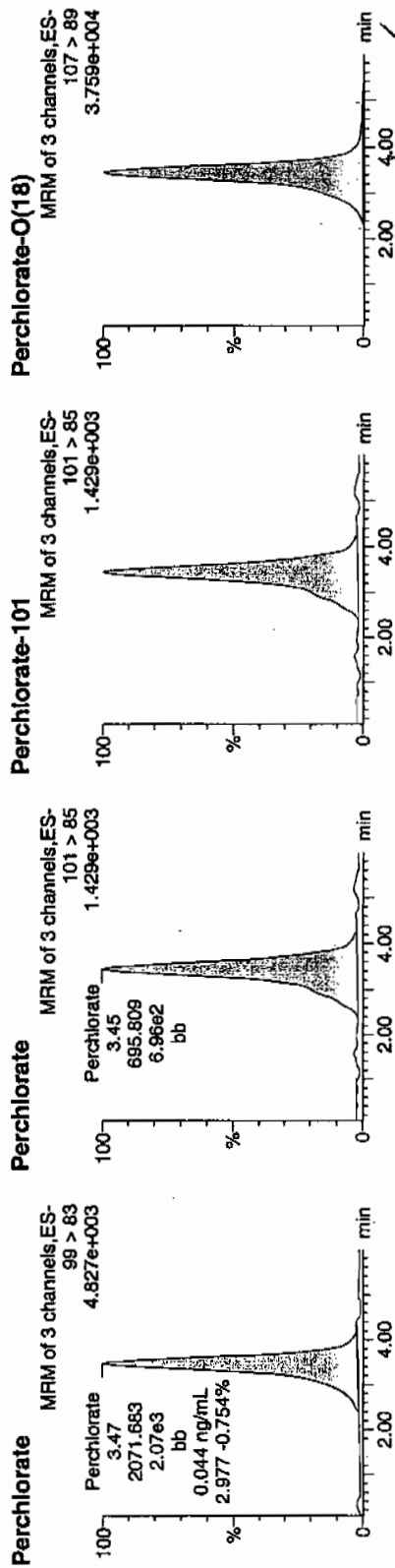
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308088a
Date: 09-Mar-2010
Time: 04:55:08
ID: WCL100227-07CRI
Vial: 1:2,B

*Per
and
07-04-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.47	2071.683	2071.683	bb			0.0440	88.07	-11.93	130.882	2.98
WCL100227-07CRI	Perchlorate-101	101 > 85	3.45	695.809	695.809	bb			0.0487	97.34	-2.66	110.757	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.45	17290.361	17290.361	bb			0.4428	88.56	-11.44	1467.3...	

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

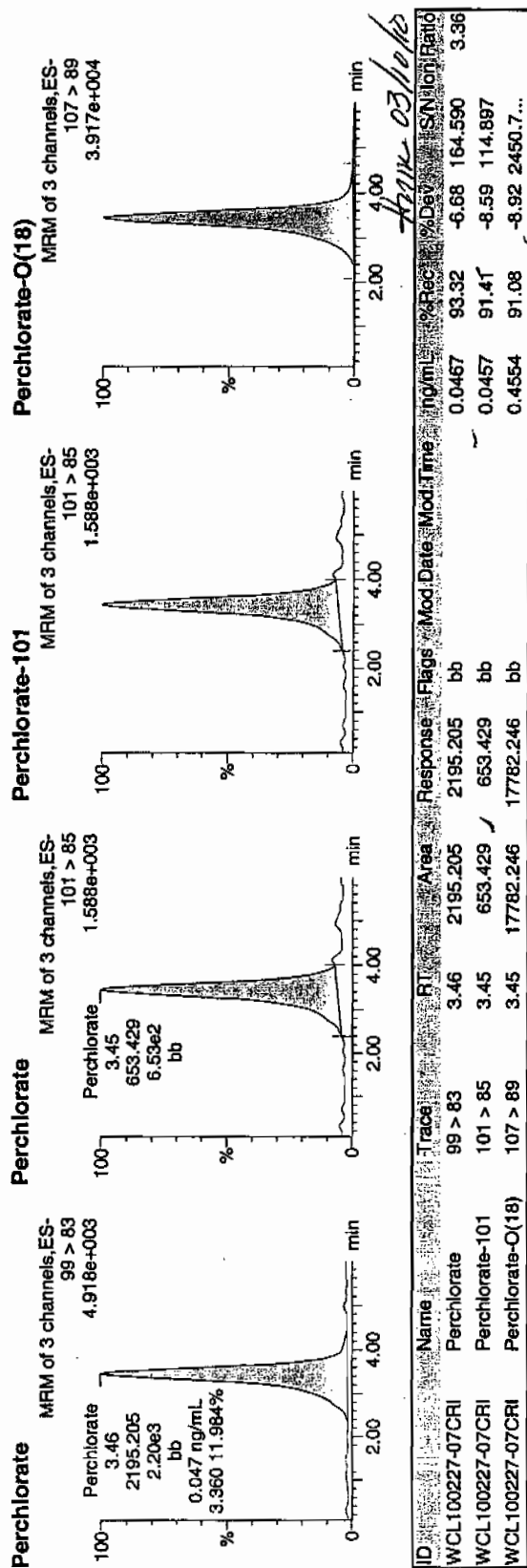
Page 101 of 139

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308101a
Date: 09-Mar-2010
Time: 06:53:14
ID: WCL100227-07CRI
Vial: 1:2,B

*Purs
WCL
03-04-10*



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\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time

Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308114a

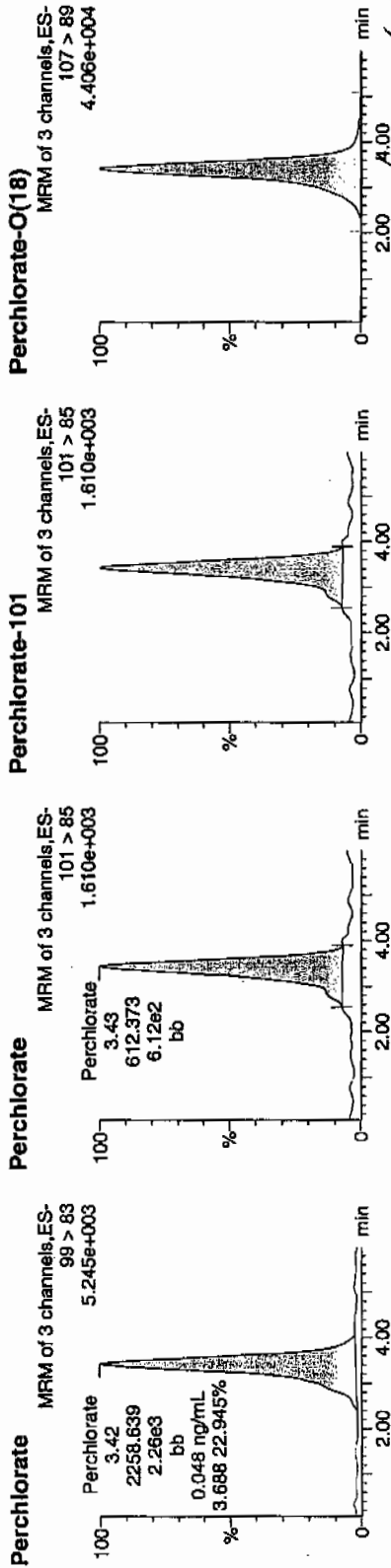
Date: 09-Mar-2010

Time: 08:51:36

ID: WCL100227-07CRI

Vial: 1:2,B

per0308114a



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.42	2258.639	2258.639	bb			0.0480	96.02	-3.98	390.282	3.69
WCL100227-07CRI	Perchlorate-101	101 > 85	3.43	612.373	612.373	bb			0.0428	85.66	-14.34	48.257	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.42	20100.334	20100.334	bb			0.5147	102.95	2.95	5432.1...	

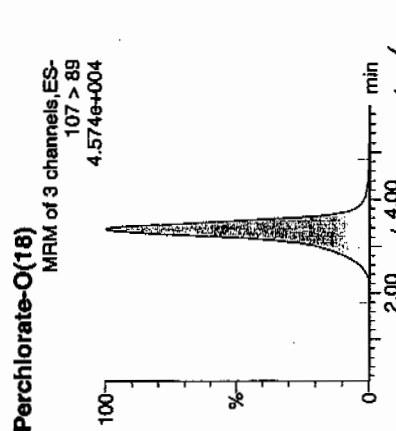
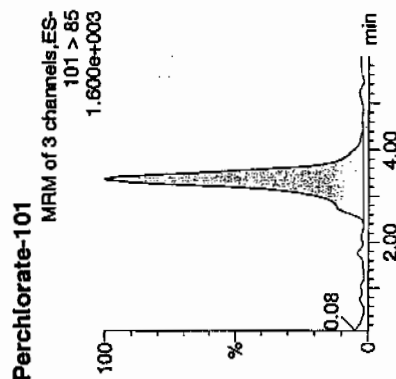
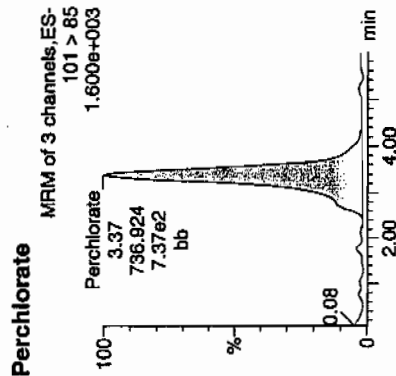
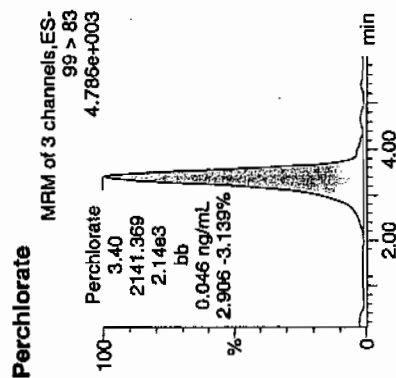
Quantity Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308127a
Date: 09-Mar-2010
Time: 10:49:31
ID: WCL100227-07CRI
Vial: 1:2,B

Pur
and
09-29-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.40	2141.369	2141.369	bb			0.0455	91.03	-8.97	139.288	2.91
WCL100227-07CRI	Perchlorate-101	101 > 85	3.37	736.924	736.924	bb			0.0515	103.09	3.09	12.943	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.37	20618.322	20618.322	bb			0.5280	105.60	5.60	705.031	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time

Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308139a

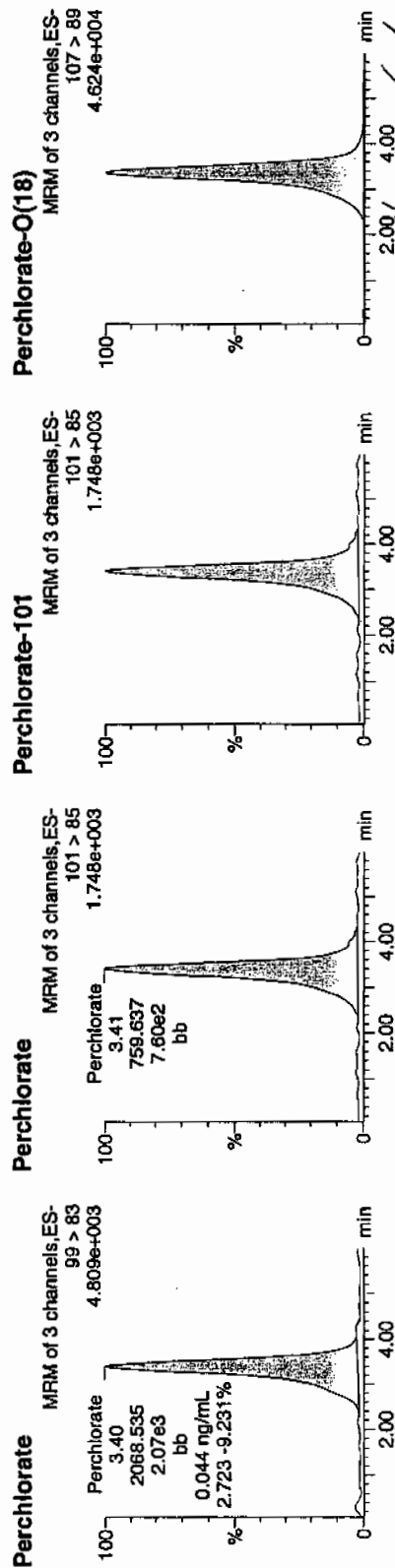
Date: 09-Mar-2010

Time: 12:38:17

ID: WCL100227-07CRI

Vial: 1:2,B

Perp
03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.40	2088.535	2068.535	bb			0.0440	87.93	-12.07	51.642	2.72
WCL100227-07CRI	Perchlorate-101	101 > 85	3.41	759.637	759.637	bb			0.0531	106.27	6.27	233.557	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.37	20755.320	20755.320	bb			0.5315	106.30	6.30	2077.5...	

QUALITY CONTROL

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: WATER

Extraction Batch ID: 959046

Extraction Type: Filter/DAI

Client Sample No.

MB

Date Received: 05-MAR-10

GEL Job No (SDG): 10-2138

GEL Sample ID: 1202056715

Date Filtered: 05-MAR-10

Injection Volume (uL): 20

%Solids:

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	09-MAR-10 07:47	per0308107a
	Perchlorate Isotope Ratio						1	09-MAR-10 07:47	per0308107a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 07:47	per0308107a
	Perchlorate-O(18)			0.447	ug/L		1	09-MAR-10 07:47	per0308107a

[^] 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: Charles W. Wilson

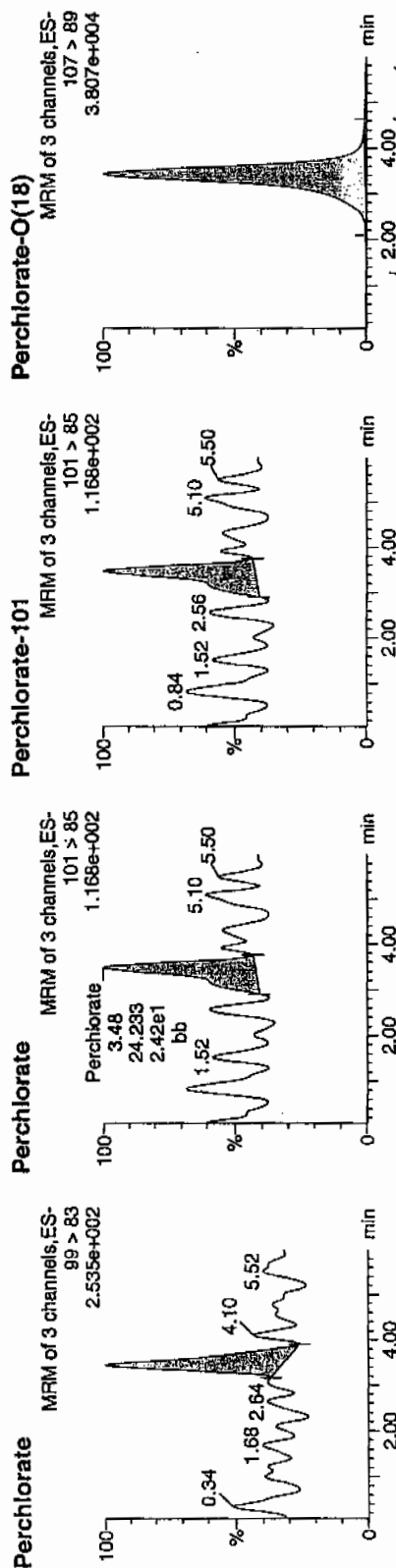
Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308107a
Date: 09-Mar-2010
Time: 07:47:57
ID: 1202056715
Vial: 3:1,A

03-31-10

1202056715 | 1202056715 | 1202056715



ID	Name	Trace	Area	Response	Flags	Mod	Date	Mod	Time	Mod	Time	Ratio
1202056715	Perchlorate	99 > 83	3.45	54.168	bb				0.0012		19.278	2.24
1202056715	Perchlorate-101	101 > 85	3.48	24.233	bb				0.0017		28.878	
1202056715	Perchlorate-Q(18)	107 > 89	3.43	17439.324	bb				0.4466		89.32	-10.68 565.332

0.0012
0.0017
0.4466

03/10/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC Client Sample No. LCS

Lab Code: GEL

Instrument: LCMSMS Date Received: 05-MAR-10

Method: EPA 6850 Modified GEL Job No (SDG): 10-2138

Matrix: WATER GEL Sample ID: 1202056716

Extraction Batch ID: 259046 Date Filtered: 05-MAR-10

Extraction Type: Filter/DAI Injection Volume (uL): 20

Sample Volume/Weight: 10.0 mL %Solids:

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.187	ug/L	J	1	09-MAR-10 07:57	per0308108a
	Perchlorate Isotope Ratio			3.13			1	09-MAR-10 07:57	per0308108a
14797-73-0	Perchlorate-101	.05	.2	0.197	ug/L	J	1	09-MAR-10 07:57	per0308108a
	Perchlorate-O(18)			0.450	ug/L		1	09-MAR-10 07:57	per0308108a

[^] 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 %Solids
Aliquot

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

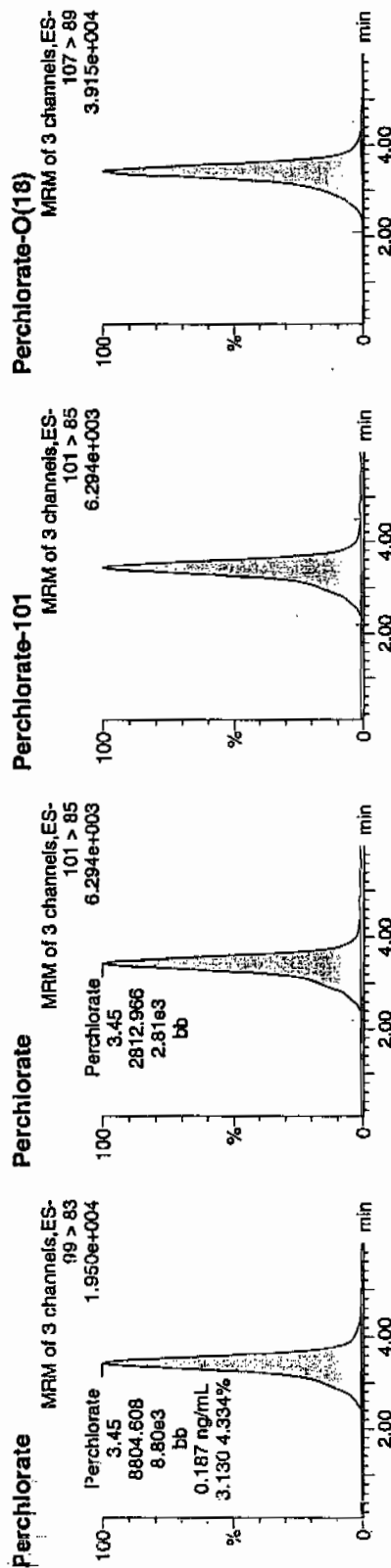
Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308108a
Date: 09-Mar-2010
Time: 07:57:12
ID: 1202056716
Vial: 3:1,B

03-09-10

1202056716 | 1202056716 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202056716	Perchlorate	99 > 83	3.45	8804.608	8804.608	bb			0.1871	93.57	-6.43	837.751	3.13
1202056716	Perchlorate-101	101 > 85	3.45	2812.966	2812.966	bb			0.1968	98.38	-1.62	753.206	
1202056716	Perchlorate-O(18)	107 > 89	3.43	17560.795	17560.795	bb			0.4497	89.94	-10.06	1081.8...	

8804.608
47047.4
= 0.1871
Amw 03/10/10

MISCELLANEOUS DATA

Isotope Ratio Criteria

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

2.31-3.85

Tune Criteria

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

Prep Logbook

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

Batch ID: 959046 Verified by: _____
 Analyst: Kaylie Westmoreland
 Method: SW846 6850 Modified
 Lab SOP: GL-OA-E-067 REV# 6
 Instrument: MicroMass Quattro Ultima

Sample ID	Run Date	Initial Volume (mL)	Final Volume (mL)	Prepped Factor (mL/mL)
1202056715 MB	05-MAR-2010 15:17:00	10	10	1
1202056716 LCS	05-MAR-2010 15:17:00	10	10	1
248108001	05-MAR-2010 15:17:00	10	10	1
248117001	05-MAR-2010 15:17:00	10	10	1
248127001	05-MAR-2010 15:17:00	10	10	1
248127002	05-MAR-2010 15:17:00	10	10	1
248162001	05-MAR-2010 15:17:00	10	10	1
248162002	05-MAR-2010 15:17:00	10	10	1
1202056717 MS (248162002)	05-MAR-2010 15:17:00	10	10	1
1202056718 MSD (248162002)	05-MAR-2010 15:17:00	10	10	1
248162003	05-MAR-2010 15:17:00	10	10	1
248162004	05-MAR-2010 15:17:00	10	10	1
248168006	05-MAR-2010 15:17:00	10	10	1
248169004	05-MAR-2010 15:17:00	10	10	1
248188001	05-MAR-2010 15:17:00	10	10	1
248199001	05-MAR-2010 15:17:00	10	10	1
248238001	05-MAR-2010 15:17:00	10	10	1
248238002	05-MAR-2010 15:17:00	10	10	1
248242001	05-MAR-2010 15:17:00	10	10	1
248245001	05-MAR-2010 15:17:00	10	10	1
248257001	05-MAR-2010 15:17:00	10	10	1
248257002	05-MAR-2010 15:17:00	10	10	1
248261001	05-MAR-2010 15:17:00	10	10	1
1202056719 ICS	05-MAR-2010 15:17:00	10	10	1

Comments:

Desalting Cartridges used: 100224-I-Ba & 100217-I-H

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments
ICS	1202056719	10 ug/L ICV/CCV Second Source	UCL100226-01.1	.2	mL	
LCS	1202056716	10 ug/L ICV/CCV Second Source	UCL100226-01.1	.2	mL	
MS	1202056717	10 ug/L ICV/CCV Second Source	UCL100226-01.1	.2	mL	
MSD	1202056718	10 ug/L ICV/CCV Second Source	UCL100226-01.1	.2	mL	
RGNT	All	500 ppm Carbonate, Bicarbonate, Chloride, Sulfate	1267890	10	mL	
RGNT	All	OZSI HPLC Grade Water	1271949	10	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 03/07/10

Extr. Injection Volume: 20ul

Sequence Number: per030710a

Initial Calibration Date: 03/07/10

Method: EPA 6850-Modified

Int. Std.: UCL100126-01

Mobile Phase Lot#: 1278668, 1271949

Standard-Samp Reagent Lot#: 1271949

Reviewed BY: *Amc*

Date: 3/16/10

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

Alt Check Std. ID: WCL100227-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0308001a	IPB001	CWW	3/8/2010 15:44			1		USE	B
per0308002a	IPB001	CWW	3/8/2010 15:53			1		USE	B
per0308003a	WCLICAL-01	CWW	3/8/2010 16:02			1		USE	I
per0308004a	WCLICAL-02	CWW	3/8/2010 16:11			1		USE	I
per0308005a	WCLICAL-03	CWW	3/8/2010 16:20			1		USE	I
per0308006a	WCLICAL-04	CWW	3/8/2010 16:29			1		USE	I
per0308007a	WCLICAL-05	CWW	3/8/2010 16:39			1		USE	I
per0308008a	IPB002	CWW	3/8/2010 16:48			1		USE	B
per0308009a	WCLICV	CWW	3/8/2010 16:57			1		USE	C
per0308010a	IPB003	CWW	3/8/2010 17:06			1		USE	B
per0308011a	WCLCRI	CWW	3/8/2010 17:15			1		USE	C
per0308012a	246870009	CWW	3/8/2010 17:24	955688	10-1782	1	LANL	USE	S
per0308013a	246870010	CWW	3/8/2010 17:33	955688	10-1782	1	LANL	USE	S
per0308014a	246982001	CWW	3/8/2010 17:42	955688	10-1812	1	LANL	USE	S
per0308015a	246982002	CWW	3/8/2010 17:51	955688	10-1812	1	LANL	USE	S
per0308016a	246982003	CWW	3/8/2010 18:01	955688	10-1812	1	LANL	USE	S
per0308017a	246982004	CWW	3/8/2010 18:10	955688	10-1812	1	LANL	USE	S
per0308018a	246982005	CWW	3/8/2010 18:19	955688	10-1812	1	LANL	USE	S
per0308019a	246982006	CWW	3/8/2010 18:28	955688	10-1812	1	LANL	USE	S
per0308020a	246982007	CWW	3/8/2010 18:37	955688	10-1812	1	LANL	USE	S
per0308021a	WCLCCV	CWW	3/8/2010 18:46			1		USE	C
per0308022a	IPB004	CWW	3/8/2010 18:55			1		USE	B
per0308023a	WCLCRI	CWW	3/8/2010 19:04			1		USE	C
per0308024a	1202049003	CWW	3/8/2010 19:13	955691	10-1809	1	LANL	USE	S
per0308025a	1202049004	CWW	3/8/2010 19:22	955691	10-1809	1	LANL	USE	S
per0308026a	1202049007	CWW	3/8/2010 19:31	955691	10-1809	1	LANL	USE	S
per0308027a	246974001	CWW	3/8/2010 19:40	955691	10-1809	1	LANL	USE	S
per0308028a	1202049005	CWW	3/8/2010 19:49	955691	10-1809	1	LANL	USE	S
per0308029a	1202049006	CWW	3/8/2010 19:58	955691	10-1809	1	LANL	USE	S

per0308030a	246974002	CWW	3/8/2010 20:07	955691	10-1809	1	LANL	USE	S
per0308031a	246974003	CWW	3/8/2010 20:16	955691	10-1809	1	LANL	USE	S
per0308032a	246974004	CWW	3/8/2010 20:26	955691	10-1809	1	LANL	USE	S
per0308033a	246974005	CWW	3/8/2010 20:35	955691	10-1809	1	LANL	USE	S
per0308034a	WCLCCV	CWW	3/8/2010 20:44			1		USE	C
per0308035a	IPB005	CWW	3/8/2010 20:53			1		USE	B
per0308036a	WCLCRI	CWW	3/8/2010 21:02			1		USE	C
per0308037a	246974006	CWW	3/8/2010 21:11	955691	10-1809	1	LANL	USE	S
per0308038a	246974007	CWW	3/8/2010 21:20	955691	10-1809	1	LANL	USE	S
per0308039a	246974008	CWW	3/8/2010 21:29	955691	10-1809	1	LANL	USE	S
per0308040a	246974009	CWW	3/8/2010 21:38	955691	10-1809	1	LANL	USE	S
per0308041a	246974010	CWW	3/8/2010 21:47	955691	10-1809	1	LANL	USE	S
per0308042a	246974011	CWW	3/8/2010 21:56	955691	10-1809	1	LANL	USE	S
per0308043a	246974012	CWW	3/8/2010 22:05	955691	10-1809	1	LANL	USE	S
per0308044a	246974013	CWW	3/8/2010 22:14	955691	10-1809	1	LANL	USE	S
per0308045a	246974014	CWW	3/8/2010 22:23	955691	10-1809	1	LANL	USE	S
per0308046a	246974015	CWW	3/8/2010 22:32	955691	10-1809	1	LANL	USE	S
per0308047a	WCLCCV	CWW	3/8/2010 22:42			1		USE	C
per0308048a	IPB006	CWW	3/8/2010 22:51			1		USE	B
per0308049a	WCLCRI	CWW	3/8/2010 23:00			1		USE	C
per0308050a	246974016	CWW	3/8/2010 23:09	955691	10-1809	1	LANL	USE	S
per0308051a	246974017	CWW	3/8/2010 23:18	955691	10-1809	1	LANL	USE	S
per0308052a	IPB007	CWW	3/8/2010 23:27			1		USE	B
per0308053a	1202049064	CWW	3/8/2010 23:36	955724	VARIOUS	1	LANL	USE	S
per0308054a	1202049065	CWW	3/8/2010 23:46	955724	VARIOUS	1	LANL	USE	S
per0308055a	1202049068	CWW	3/8/2010 23:55	955724	VARIOUS	1	LANL	USE	S
per0308056a	246964002	CWW	3/9/2010 0:04	955724	10-1802	1	LANL	USE	S
per0308057a	246964004	CWW	3/9/2010 0:13	955724	10-1802	1	LANL	USE	S
per0308058a	246967001	CWW	3/9/2010 0:22	955724	10-1807	1	LANL	USE	S
per0308059a	246967004	CWW	3/9/2010 0:31	955724	10-1807	1	LANL	DUSE-DL	S
per0308060a	WCLCCV	CWW	3/9/2010 0:40			1		USE	C
per0308061a	IPB008	CWW	3/9/2010 0:50			1		USE	B
per0308062a	WCLCRI	CWW	3/9/2010 0:59			1		USE	C
per0308063a	247036002	CWW	3/9/2010 1:08	955724	10-1826	1	LANL	USE	S
per0308064a	247036003	CWW	3/9/2010 1:17	955724	10-1826	1	LANL	USE	S
per0308065a	247036006	CWW	3/9/2010 1:26	955724	10-1826	1	LANL	USE	S
per0308066a	247037001	CWW	3/9/2010 1:35	955724	10-1823	1	LANL	DUSE-DL	S

per0308067a	247042002	CWW	3/9/2010 1:44	955724	10-1817	1	LANL	DUSE-RA	S
per0308068a	247042004	CWW	3/9/2010 1:53	955724	10-1817	1	LANL	USE	S
per0308069a	247042006	CWW	3/9/2010 2:02	955724	10-1817	1	LANL	USE	S
per0308070a	247261004	CWW	3/9/2010 2:11	955724	10-1886	1	LANL	USE	S
per0308071a	1202049066	CWW	3/9/2010 2:20	955724	10-1886	1	LANL	USE	S
per0308072a	1202049067	CWW	3/9/2010 2:29	955724	10-1886	1	LANL	USE	S
per0308073a	WCLCCV	CWW	3/9/2010 2:38			1		USE	C
per0308074a	IPB009	CWW	3/9/2010 2:48			1		USE	B
per0308075a	WCLCRI	CWW	3/9/2010 2:57			1		USE	C
per0308076a	1202056710	CWW	3/9/2010 3:06	959044	VARIOUS	1	LANL	USE	S
per0308077a	1202056711	CWW	3/9/2010 3:15	959044	VARIOUS	1	LANL	USE	S
per0308078a	1202056714	CWW	3/9/2010 3:24	959044	VARIOUS	1	LANL	USE	S
per0308079a	247908001	CWW	3/9/2010 3:33	959044	10-2013-1	1	LANL	USE	S
per0308080a	1202056712	CWW	3/9/2010 3:42	959044	10-2013-1	1	LANL	USE	S
per0308081a	1202056713	CWW	3/9/2010 3:51	959044	10-2013-1	1	LANL	USE	S
per0308082a	247908002	CWW	3/9/2010 4:00	959044	10-2013-1	1	LANL	USE	S
per0308083a	247908003	CWW	3/9/2010 4:09	959044	10-2013-1	1	LANL	USE	S
per0308084a	247919001	CWW	3/9/2010 4:18	959044	10-2016-1	1	LANL	USE	S
per0308085a	247919002	CWW	3/9/2010 4:27	959044	10-2016-1	1	LANL	USE	S
per0308086a	WCLCCV	CWW	3/9/2010 4:36			1		USE	C
per0308087a	IPB010	CWW	3/9/2010 4:46			1		USE	B
per0308088a	WCLCRI	CWW	3/9/2010 4:55			1		USE	C
per0308089a	247922004	CWW	3/9/2010 5:04	959044	10-2022	1	LANL	USE	S
per0308090a	247997001	CWW	3/9/2010 5:13	959044	10-2025	1	LANL	USE	S
per0308091a	248001001	CWW	3/9/2010 5:22	959044	10-2028	1	LANL	USE	S
per0308092a	248019001	CWW	3/9/2010 5:31	959044	10-2052	1	LANL	USE	S
per0308093a	248019002	CWW	3/9/2010 5:40	959044	10-2052	1	LANL	USE	S
per0308094a	248034001	CWW	3/9/2010 5:49	959044	10-2072-1	1	LANL	USE	S
per0308095a	248038001	CWW	3/9/2010 5:58	959044	10-2066-1	1	LANL	USE	S
per0308096a	248038002	CWW	3/9/2010 6:07	959044	10-2066-1	1	LANL	USE	S
per0308097a	248039001	CWW	3/9/2010 6:16	959044	10-2069	1	LANL	USE	S
per0308098a	248046001	CWW	3/9/2010 6:25	959044	10-2075-1	1	LANL	USE	S
per0308099a	WCLCCV	CWW	3/9/2010 6:34			1		USE	C
per0308100a	IPB011	CWW	3/9/2010 6:44			1		USE	B
per0308101a	WCLCRI	CWW	3/9/2010 6:53			1		USE	C
per0308102a	248046002	CWW	3/9/2010 7:02	959044	10-2075-1	1	LANL	USE	S
per0308103a	248053001	CWW	3/9/2010 7:11	959044	10-2081	1	LANL	USE	S

per0308104a	248053002	CWW	3/9/2010 7:20	959044	10-2081	1	LANL	USE	S
per0308105a	248053003	CWW	3/9/2010 7:29	959044	10-2081	1	LANL	USE	S
per0308106a	IPB012	CWW	3/9/2010 7:38			1		USE	B
per0308107a	1202056715	CWW	3/9/2010 7:47	959047	VARIOUS	1	LANL	USE	S
per0308108a	1202056716	CWW	3/9/2010 7:57	959047	VARIOUS	1	LANL	USE	S
per0308109a	1202056719	CWW	3/9/2010 8:06	959047	VARIOUS	1	LANL	USE	S
per0308110a	248108001	CWW	3/9/2010 8:15	959047	10-2090	1	LANL	USE	S
per0308111a	248117001	CWW	3/9/2010 8:24	959047	10-2093	1	LANL	USE	S
per0308112a	WCLCCV	CWW	3/9/2010 8:33			1		USE	C
per0308113a	IPB013	CWW	3/9/2010 8:42			1		USE	B
per0308114a	WCLCRI	CWW	3/9/2010 8:51			1		USE	C
per0308115a	248127001	CWW	3/9/2010 9:00	959047	10-2096	1	LANL	USE	S
per0308116a	248127002	CWW	3/9/2010 9:09	959047	10-2096	1	LANL	USE	S
per0308117a	248162001	CWW	3/9/2010 9:18	959047	10-2103	1	LANL	USE	S
per0308118a	248162002	CWW	3/9/2010 9:27	959047	10-2103	1	LANL	USE	S
per0308119a	1202056717	CWW	3/9/2010 9:37	959047	10-2103	1	LANL	USE	S
per0308120a	1202056718	CWW	3/9/2010 9:46	959047	10-2103	1	LANL	USE	S
per0308121a	248162003	CWW	3/9/2010 9:55	959047	10-2103	1	LANL	USE	S
per0308122a	248162004	CWW	3/9/2010 10:04	959047	10-2103	1	LANL	USE	S
per0308123a	248168006	CWW	3/9/2010 10:13	959047	10-2107	1	LANL	USE	S
per0308124a	248169004	CWW	3/9/2010 10:22	959047	10-2108	1	LANL	USE	S
per0308125a	WCLCCV	CWW	3/9/2010 10:31			1		USE	C
per0308126a	IPB014	CWW	3/9/2010 10:40			1		USE	B
per0308127a	WCLCRI	CWW	3/9/2010 10:49			1		USE	C
per0308128a	248188001	CWW	3/9/2010 10:58	959047	10-2120	1	LANL	USE	S
per0308129a	248199001	CWW	3/9/2010 11:07	959047	10-2122-1	1	LANL	USE	S
per0308130a	248238001	CWW	3/9/2010 11:16	959047	10-2132-1	1	LANL	USE	S
per0308131a	248238002	CWW	3/9/2010 11:25	959047	10-2132-1	1	LANL	USE	S
per0308132a	248242001	CWW	3/9/2010 11:34	959047	10-2135-1	1	LANL	USE	S
per0308133a	248245001	CWW	3/9/2010 11:43	959047	10-2138	1	LANL	USE	S
per0308134a	248257001	CWW	3/9/2010 11:52	959047	10-2146-1	1	LANL	USE	S
per0308135a	248257002	CWW	3/9/2010 12:02	959047	10-2146-1	1	LANL	USE	S
per0308136a	248261001	CWW	3/9/2010 12:11	959047	10-2149	1	LANL	USE	S
per0308137a	WCLCCV	CWW	3/9/2010 12:20			1		USE	C
per0308138a	IPB015	CWW	3/9/2010 12:29			1		USE	B
per0308139a	WCLCRI	CWW	3/9/2010 12:38			1		USE	C

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

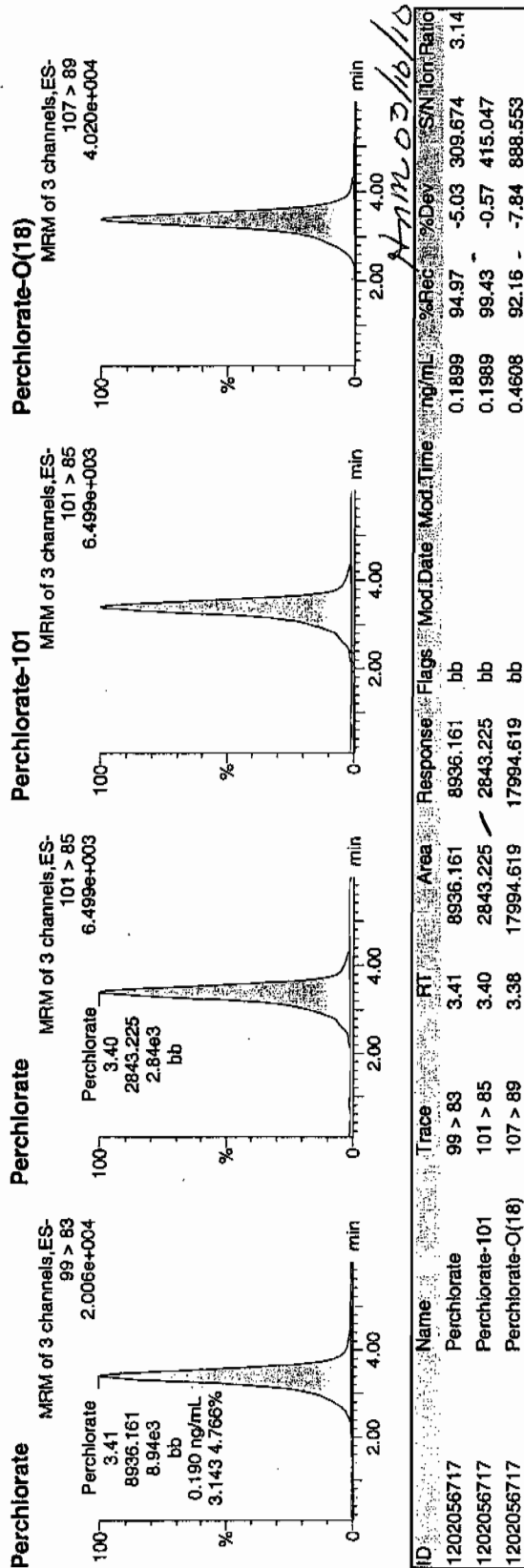
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Date: 09-Mar-2010

Time: 09:37:00

ID: 1202056717

Vial: 3:2,D



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

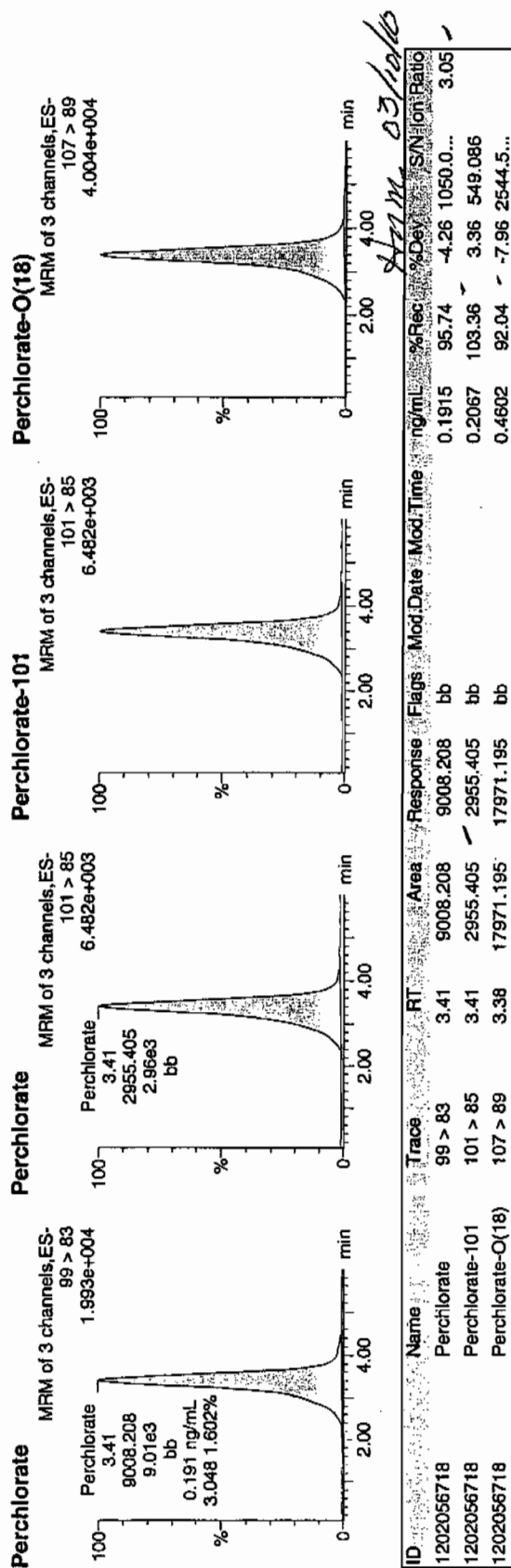
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308120a
Date: 09-Mar-2010
Time: 09:46:02
ID: 1202056718
Vial: 3:2,E

1202056718 | LTA | MSO | 1 | 1
03 21-10



LC/MS/MS PERCHLORATE ANALYSIS

**Perchlorate by LC/MSMS
Los Alamos National Laboratory (LANL)
SDG 10-2138-1**

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: 959029

Prep Batch Number: 959025

Sample Analysis

Sample ID	Client ID
248247001	RE36-10-8464
248247002	RE36-10-8475
248247003	RE36-10-8471
248247004	RE36-10-8485
248247005	RE36-10-8477
248247006	RE36-10-8479
248247007	RE36-10-8484
248247008	RE36-10-8481
1202056696	Interference Check Sample (ICS)
1202056692	Method Blank (MB)
1202056693	Laboratory Control Sample (LCS)
1202056694	248247001(RE36-10-8464) Matrix Spike (MS)
1202056695	248247001(RE36-10-8464) Matrix Spike Duplicate (MSD)

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

10-2138-1-PERLCMS

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Preparation/Analytical Method Verification

SOP Reference

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

Calibration Information

Initial Calibration

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

CCV Requirements

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

CCB Requirements

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

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 248247001 (RE36-10-8464) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS recoveries were within the established acceptance limits.

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.

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Retention Time

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

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Samples 248247002 (RE36-10-8475), 248247003 (RE36-10-8471), 248247004 (RE36-10-8485), 248247005 (RE36-10-8477), 248247006 (RE36-10-8479) and 248247007 (RE36-10-8484) required re-analysis due to failing bracketing CCV. The re-analysis passed acceptance criteria and is reported.

Miscellaneous Information

Data Exception (DER) Documentation

Data exception reports (DERs) are generated to document procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Manual Integrations

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

Method Comments

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

Additional Comments

The Perchlorate Isotope Ratio on the Form I may differ slightly from the ratio on the corresponding raw data due to rounding rules and/or significant figures or due to software limitations when there are manual integrations, dilutions or other factors. The ratio value of the Form I is the correct value.

The retention time marker, Perchlorate-O (18), is added to all samples, instrument blanks, and standards prior to injection. It is used to verify the retention time of Perchlorate and Perchlorate-101 and to insure an accurate injection occurred. Due to various anions affecting the recovery of Perchlorate-O (18) and not Perchlorate and Perchlorate-101, the calibration curves of Perchlorate and Perchlorate-101 are not internally corrected for using Perchlorate-O (18). They are external calibrations.

10-2138-1-PERLCMS

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Perchlorate Isotope Ratio

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

System Configuration

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

Chromatographic Columns

Chromatographic separation of perchlorate is accomplished through analysis on the following anion column:

Dionex: IonPac AG-16 2 x 50 mm.

Certification Statement

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

Review Validation:

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

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

Reviewer:

Herbert Mauer Date: 03/22/10

SAMPLE DATA SUMMARY

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: 959025
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-8464
 Date Received: 27-FEB-10
 GEL Job No (SDG): 10-2138-1
 GEL Sample ID: 248247001
 Date Filtered: 10-MAR-10
 Injection Volume (uL): 20
 %Solids: 90.5

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.553	2.21	0.553	ug/kg	U	1	18-MAR-10 03:49	per0317120a
	Perchlorate Isotope Ratio						1	18-MAR-10 03:49	per0317120a
14797-73-0	Perchlorate-101	.553	2.21	0.553	ug/kg	U	1	18-MAR-10 03:49	per0317120a
	Perchlorate-O(18)			5.15	ug/kg		1	18-MAR-10 03:49	per0317120a

[^] 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 $\frac{1}{\% \text{Solids}}$

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: 959025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8475

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 248247002

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 91.2

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.548	2.19	0.811	ug/kg	J	1	18-MAR-10 20:25	per0318041a
	Perchlorate Isotope Ratio			2.96			1	18-MAR-10 20:25	per0318041a
14797-73-0	Perchlorate-101	.548	2.19	0.856	ug/kg	J	1	18-MAR-10 20:25	per0318041a
	Perchlorate-O(18)			5.73	ug/kg		1	18-MAR-10 20:25	per0318041a

[^] 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

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: 959025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8471

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 248247003

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 89

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.565	2.26	0.565	ug/kg	U	1	18-MAR-10 20:33	per0318042a
	Perchlorate Isotope Ratio						1	18-MAR-10 20:33	per0318042a
14797-73-0	Perchlorate-101	.565	2.26	0.565	ug/kg	U	1	18-MAR-10 20:33	per0318042a
	Perchlorate-O(18)			5.78	ug/kg		1	18-MAR-10 20:33	per0318042a

[^] 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 $\frac{1}{\% \text{Solids}}$

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: 959025
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-8485
 Date Received: 27-FEB-10
 GEL Job No (SDG): 10-2138-1
 GEL Sample ID: 248247004
 Date Filtered: 10-MAR-10
 Injection Volume (uL): 20
 %Solids: 77

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.653	2.61	2.29	ug/kg	J	1	18-MAR-10 20:40	per0318043a
	Perchlorate Isotope Ratio			3.26			1	18-MAR-10 20:40	per0318043a
14797-73-0	Perchlorate-101	.653	2.61	2.19	ug/kg	J	1	18-MAR-10 20:40	per0318043a
	Perchlorate-O(18)			7.96	ug/kg		1	18-MAR-10 20:40	per0318043a

[^] 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
 Aliquot %Solids

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: 959025
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-8477
 Date Received: 27-FEB-10
 GEL Job No (SDG): 10-2138-1
 GEL Sample ID: 248247005
 Date Filtered: 10-MAR-10
 Injection Volume (uL): 20
 %Solids: 87

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.574	2.29	0.574	ug/kg	U	1	18-MAR-10 20:48	per0318044a
	Perchlorate Isotope Ratio						1	18-MAR-10 20:48	per0318044a
14797-73-0	Perchlorate-101	.574	2.29	0.574	ug/kg	U	1	18-MAR-10 20:48	per0318044a
	Perchlorate-O(18)			6.66	ug/kg		1	18-MAR-10 20:48	per0318044a

[^] 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: 959025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8479

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 248247006

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 90

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.557	2.23	0.631	ug/kg	J	1	18-MAR-10 20:56	per0318045a
	Perchlorate Isotope Ratio			2.73			1	18-MAR-10 20:56	per0318045a
14797-73-0	Perchlorate-101	.557	2.23	0.724	ug/kg	J	1	18-MAR-10 20:56	per0318045a
	Perchlorate-O(18)			6.85	ug/kg		1	18-MAR-10 20:56	per0318045a

[^] 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

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: 959025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8484

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 248247007

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 84

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.597	2.39	0.796	ug/kg	J	1	18-MAR-10 21:03	per0318046a
	Perchlorate Isotope Ratio			3.38			1	18-MAR-10 21:03	per0318046a
14797-73-0	Perchlorate-101	.597	2.39	0.737	ug/kg	J	1	18-MAR-10 21:03	per0318046a
	Perchlorate-O(18)			7.32	ug/kg		1	18-MAR-10 21:03	per0318046a

[^] 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: 259025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8481

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 248247008

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 89

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.563	2.25	0.683	ug/kg	J	1	18-MAR-10 21:11	per0318047a
	Perchlorate Isotope Ratio			2.69			1	18-MAR-10 21:11	per0318047a
14797-73-0	Perchlorate-101	.563	2.25	0.793	ug/kg	J	1	18-MAR-10 21:11	per0318047a
	Perchlorate-O(18)			6.55	ug/kg		1	18-MAR-10 21:11	per0318047a

[^] 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): 10-2138-1

Extract Batch Code: 959025

Date Filtered: 10-MAR-10

Matrix: SOIL

Sample ID: 1202056693

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	1.95	ug/kg	97.3		70 - 130
Perchlorate Isotope Ratio		2.99				-
Perchlorate-101	2.00	1.97	ug/kg	98.3		70 - 130
Perchlorate-O(18)		4.47	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): 10-2138-1

Extract Batch Code: 959025

Date Filtered: 10-MAR-10

Matrix: SOIL

Sample ID: 1202056696

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.03	ug/kg	101		70 - 130
Perchlorate Isotope Ratio		3.22				
Perchlorate-101	2.00	1.9	ug/kg	95		70 - 130
Perchlorate-O(18)		4.82	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: Charles W. Wilson

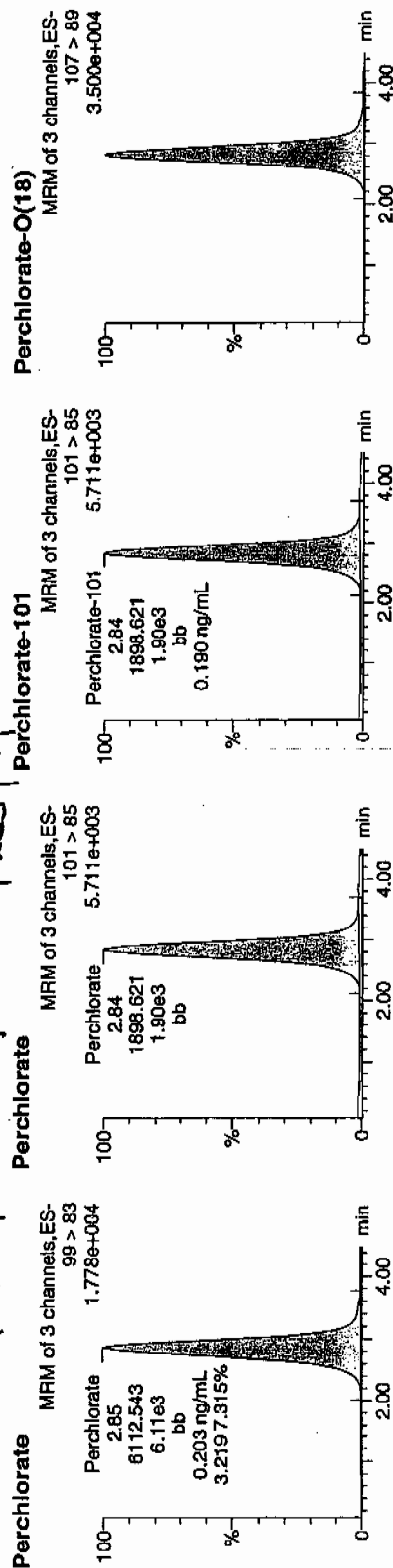
Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qid

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317104a
Date: 18-Mar-2010
Time: 01:47:40
ID: 1202056696
Vial: 3:1,C

03-18-10

1202056696 | 951029 | 5020 | 1202056696 | 951029 | 5020 | 1202056696



ID	Name	Area	Response	Flag	Mod	Time	ng/mL	Dev	IS	Ratio
1202056696	Perchlorate	6112.543	6112.543	bb		0.2026	101.31	1.31	874.514	3.22
1202056696	Perchlorate-101	1898.621	1898.621	bb		0.1899	94.95	-5.05	792.803	
1202056696	Perchlorate-O(18)	11788.583	11788.583	bb		0.4818	96.37	-3.63	2543.7...	

6112.543
1898.621

3.2195

✓
3/25/10

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

Extract Batch Code: 959025

GEL MS/PS ID: 1202056694

GEL MSD/PSD ID: 1202056695

GEL Job No (SDG): 10-2138-1

Date Extracted: 10-MAR-10

Client ID: RE36-10-8464

QC Type: MS

Compound [^]	Spike Added	Sample Conc	Units	MS Conc	MS Rec	#	MSD Conc	MSD Rec	#	RPD	#	RPD Limit	Recovery Limit
Perchlorate	2.21	0.477	ug/kg	2.64	97.7		2.59	95.7		1.7		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		2.99			2.87			0			-
Perchlorate-101	2.21	0.547	ug/kg	2.66	95.7		2.73	98.5		2.36		30	75 - 125
Perchlorate-O(18)	0	5.15	ug/kg	5.05			5.22			3.16			-

[^] 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:

Form 4

Perchlorate Initial Calibration Blank

GEL Job No.(SDG): 10-2138-1

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	17-MAR-10	per0317001a	IPB001
Perchlorate-101	0.00	0	NA	17-MAR-10	per0317001a	IPB001
Perchlorate	0.00	0	NA	17-MAR-10	per0317002a	IPB001
Perchlorate-101	0.00	0	NA	17-MAR-10	per0317002a	IPB001
Perchlorate	0.00	0	NA	18-MAR-10	per0318001a	IPB001
Perchlorate-101	0.00	0	NA	18-MAR-10	per0318001a	IPB001
Perchlorate	0.00	0	NA	18-MAR-10	per0318002a	IPB001
Perchlorate-101	0.00	0	NA	18-MAR-10	per0318002a	IPB001

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

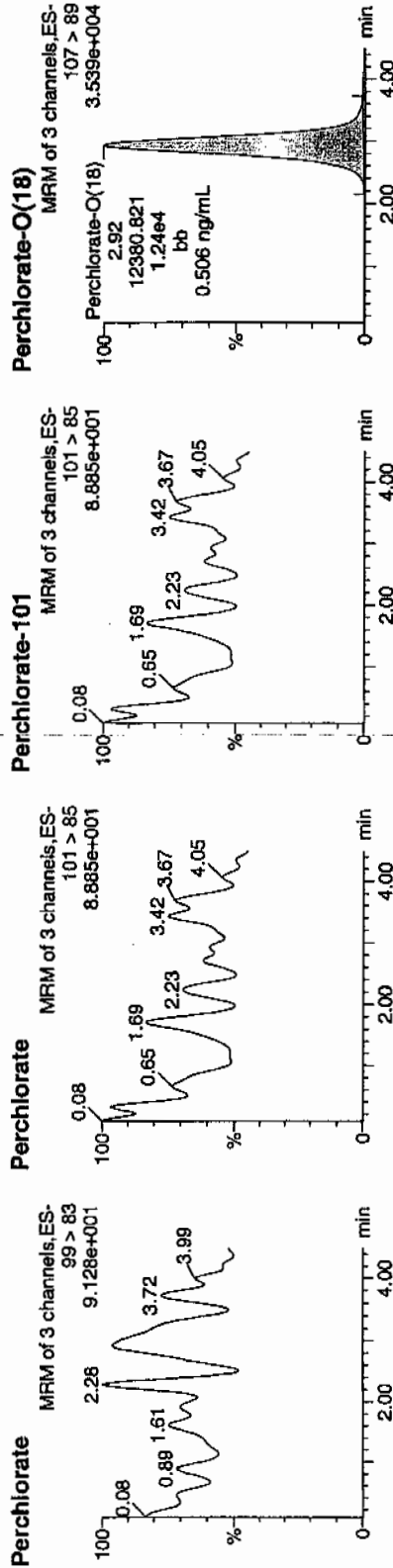
Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per031710a.mdb 18 Mar 2010 06:41:55
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per031710a.cdb 18 Mar 2010 06:42:10

Name: per0317001a
Date: 17-Mar-2010
Time: 12:46:43
ID: IPB001
Vial: 1:1,A

03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
IPB001	Perchlorate	99 > 83											0.00
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	2.92	12380.821	12380.821	bb			0.5060	101.21	1.21	574.489	

3/19/10

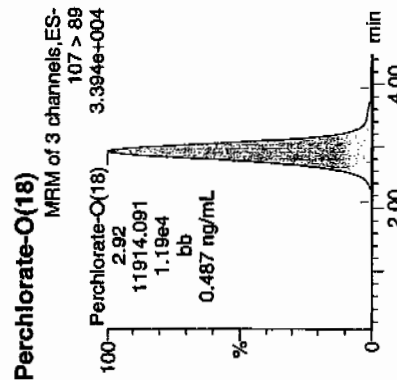
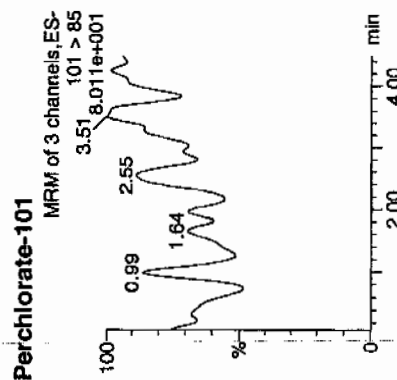
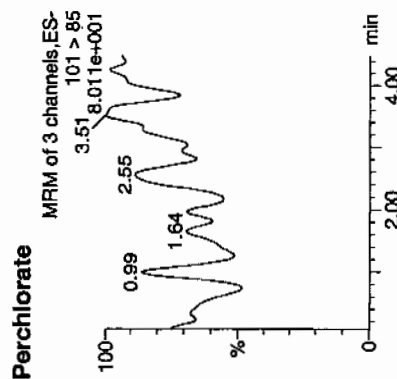
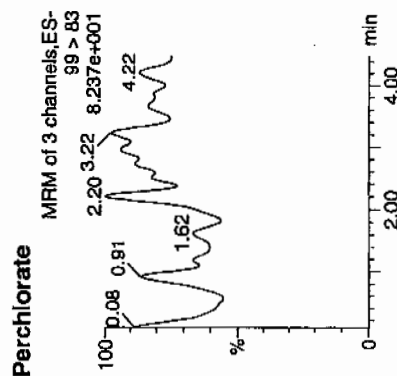
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317002a
Date: 17-Mar-2010
Time: 12:54:15
ID: IPB001
Vial: 1:1,A

03-18-10



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	2.92	11914.091	11914.091	bb			0.4870	97.39	-2.61	1335.3...	

4pt
3/19/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per031810a.mdb 19 Mar 2010 06:40:51

Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per031810a.cdb 19 Mar 2010 06:42:20

Name: per0318001a

Date: 18-Mar-2010

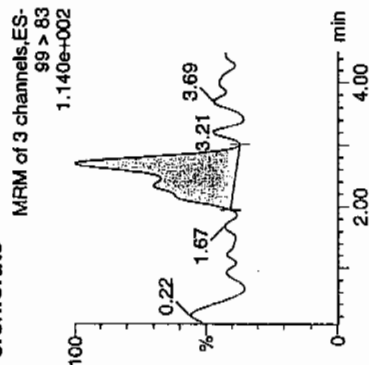
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ID: IPB001

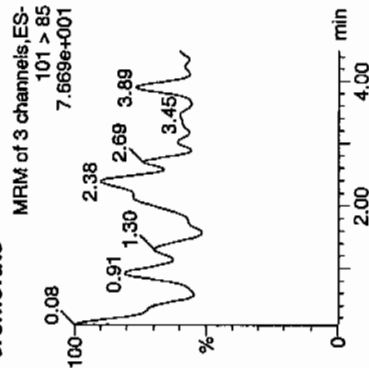
Vial: 1:1,A

03-19-10

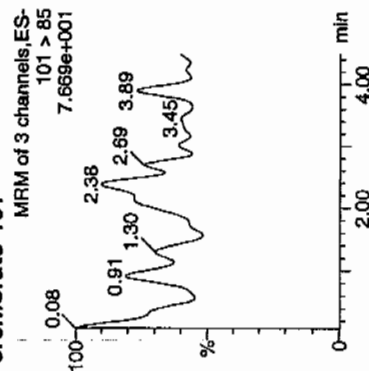
Perchlorate



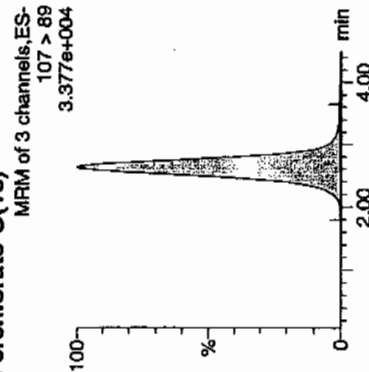
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83	2.69	33.044	33.044	bb			0.0012			40.429	0.00
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	2.64	11193.372	11193.372	bb			0.5277	105.54	5.54	1312.0...	

107 > 89
3/23/10

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

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318002a

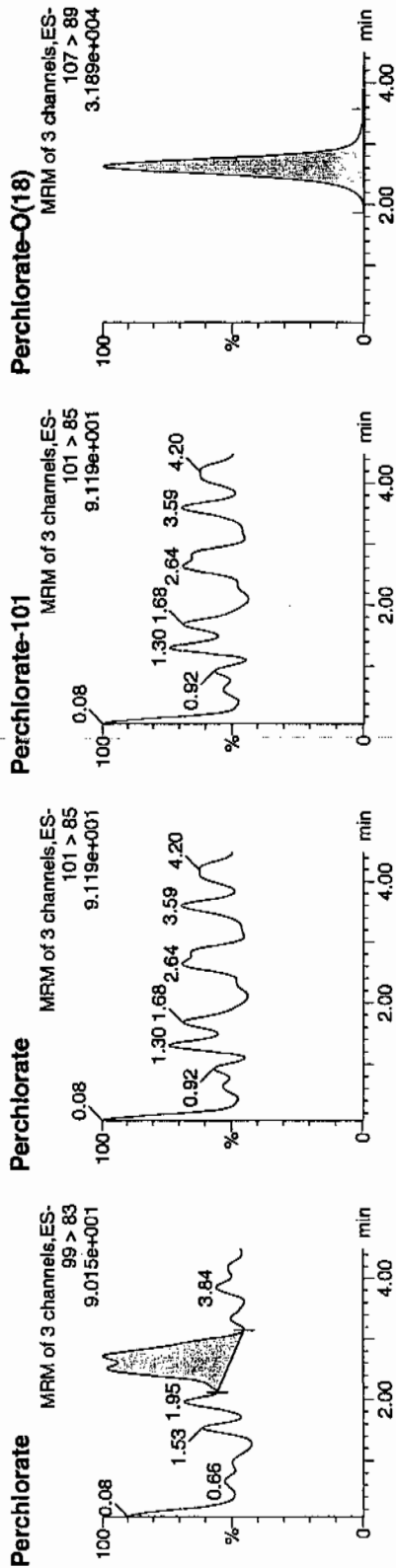
Date: 18-Mar-2010

Time: 15:30:05

ID: IPB001

Vial: 1:1,A

03-14-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83	2.71	23.658	23.658	bb			0.0008			18.601	0.00
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	2.64	10588.210	10588.210	bb			0.4992	99.83	-0.17	1167.5...	

not
3/20/10

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-2138-1

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	17-MAR-10	per0317008a	IPB002
Perchlorate-101	0.00	0	NA	17-MAR-10	per0317008a	IPB002
Perchlorate	0.00	0	NA	17-MAR-10	per0317010a	IPB003
Perchlorate-101	0.00	0	NA	17-MAR-10	per0317010a	IPB003
Perchlorate	0.00	0	NA	17-MAR-10	per0317023a	IPB004
Perchlorate-101	0.00	0	NA	17-MAR-10	per0317023a	IPB004
Perchlorate	0.00	0	NA	17-MAR-10	per0317036a	IPB005
Perchlorate-101	0.00	0	NA	17-MAR-10	per0317036a	IPB005
Perchlorate	0.00	0	NA	17-MAR-10	per0317042a	IPB006
Perchlorate-101	0.00	0	NA	17-MAR-10	per0317042a	IPB006
Perchlorate	0.00	0	NA	17-MAR-10	per0317049a	IPB007
Perchlorate-101	0.00	0	NA	17-MAR-10	per0317049a	IPB007
Perchlorate	0.00	0	NA	17-MAR-10	per0317061a	IPB008

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-2138-1

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-101	0.00	0	NA	17-MAR-10	per0317061a	IPB008
Perchlorate	0.00	0	NA	17-MAR-10	per0317072a	IPB009
Perchlorate-101	0.00	0	NA	17-MAR-10	per0317072a	IPB009
Perchlorate	0.00	0	NA	18-MAR-10	per0317098a	IPB011
Perchlorate-101	0.00	0	NA	18-MAR-10	per0317098a	IPB011
Perchlorate	0.00	0	NA	18-MAR-10	per0317101a	IPB012
Perchlorate-101	0.00	0	NA	18-MAR-10	per0317101a	IPB012
Perchlorate	0.00	0	NA	18-MAR-10	per0317111a	IPB013
Perchlorate-101	0.00	0	NA	18-MAR-10	per0317111a	IPB013
Perchlorate	0.00	0	NA	18-MAR-10	per0317124a	IPB014
Perchlorate-101	0.00	0	NA	18-MAR-10	per0317124a	IPB014
Perchlorate	0.00	0	NA	18-MAR-10	per0318008a	IPB002
Perchlorate-101	0.00	0	NA	18-MAR-10	per0318008a	IPB002

Perchlorate Continuing Calibration Blank

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2138-1

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	18-MAR-10	per0318010a	IPB003
Perchlorate-101	0.00	0	NA	18-MAR-10	per0318010a	IPB003
Perchlorate	0.00	0	NA	18-MAR-10	per0318023a	IPB004
Perchlorate-101	0.00	0	NA	18-MAR-10	per0318023a	IPB004
Perchlorate	0.00	0	NA	18-MAR-10	per0318036a	IPB005
Perchlorate-101	0.00	0	NA	18-MAR-10	per0318036a	IPB005
Perchlorate	0.00	0	NA	18-MAR-10	per0318049a	IPB006
Perchlorate-101	0.00	0	NA	18-MAR-10	per0318049a	IPB006

Quantify Sample Report MassLynx 4.0 SP4

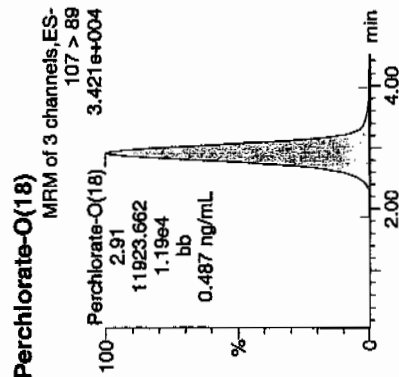
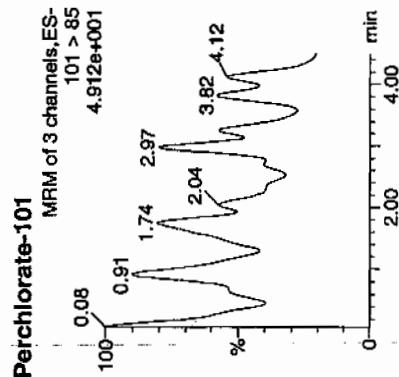
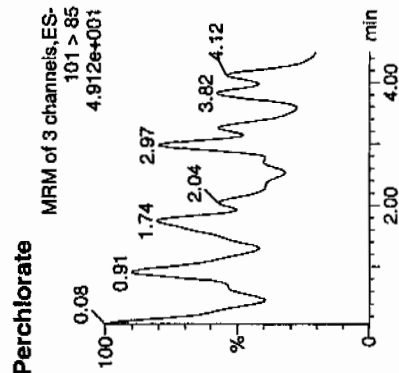
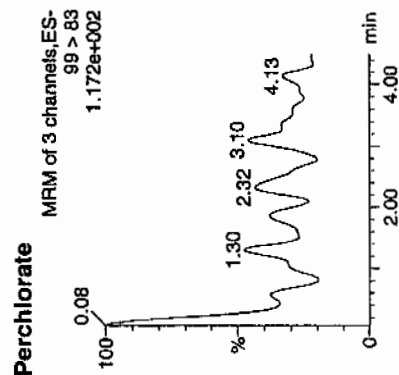
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

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 Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317008a
 Date: 17-Mar-2010
 Time: 13:39:23
 ID: IPB002
 Vial: 1:1,A

03-18-10



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	2.91	11923.662	11923.662	bb			0.4874	97.47	-2.53	652.528	

1.447
3/18/10

Quantify Sample Report MassLynx 4.0 SP4

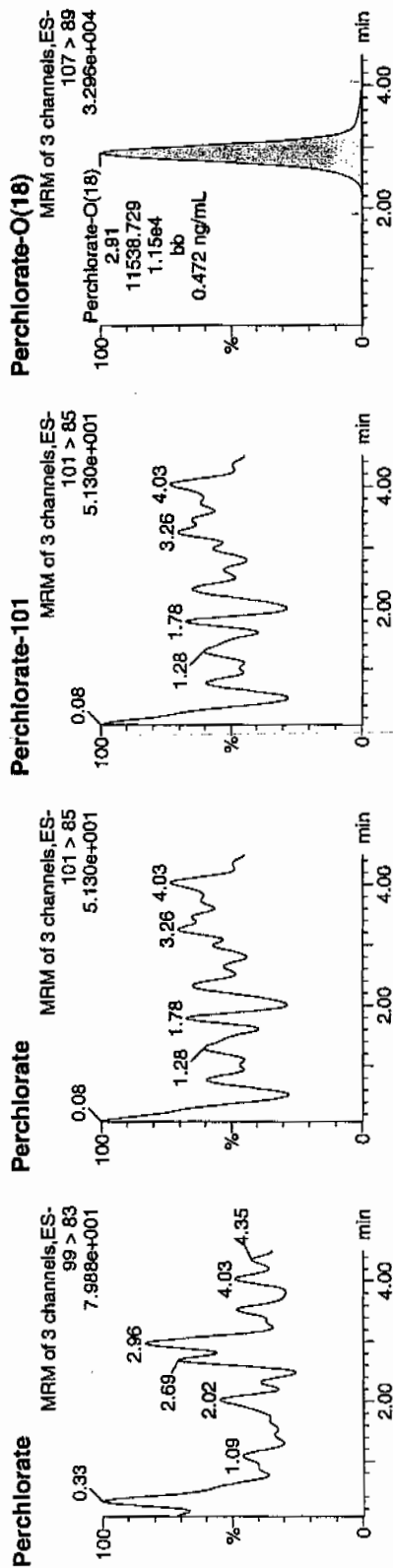
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
 Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317010a
 Date: 17-Mar-2010
 Time: 13:54:29
 ID: IPB003
 Vial: 1:1,A

03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
IPB003	Perchlorate	99 > 83											0.00
IPB003	Perchlorate-101	101 > 85											
IPB003	Perchlorate-O(18)	107 > 89	2.91	11538.729	11538.729	bb			0.4716	94.33	-5.67	2239.1...	

4/17
3/19/10

Quantify Sample Report MassLynx 4.0 SP4

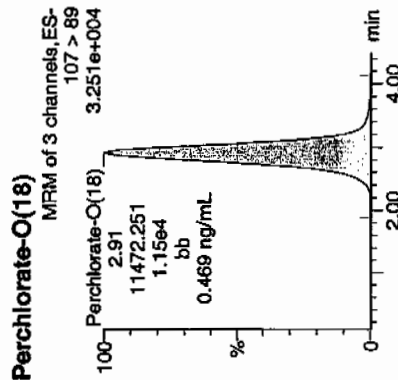
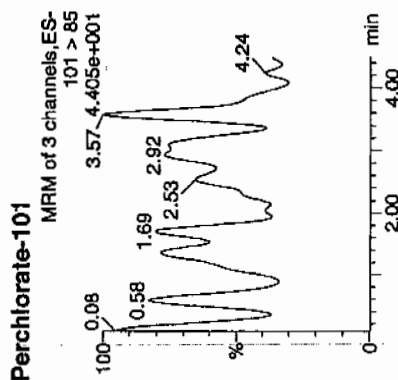
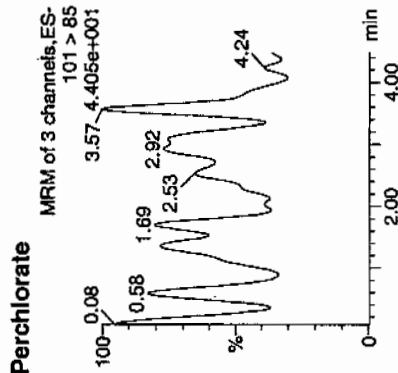
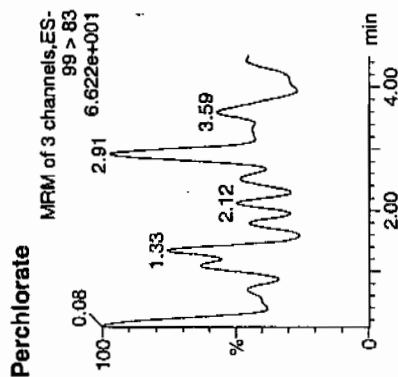
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
 Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317023a
 Date: 17-Mar-2010
 Time: 15:32:31
 ID: IPB004
 Vial: 1:1,A

03-18-10



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	2.91	11472.251	11472.251	bb			0.4689	93.78	-6.22	11773	...

11773
3/18/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317036a

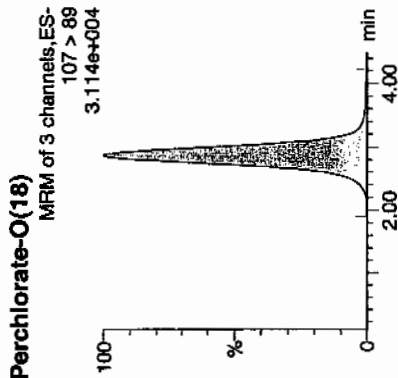
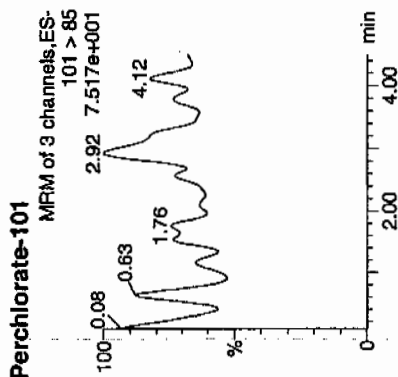
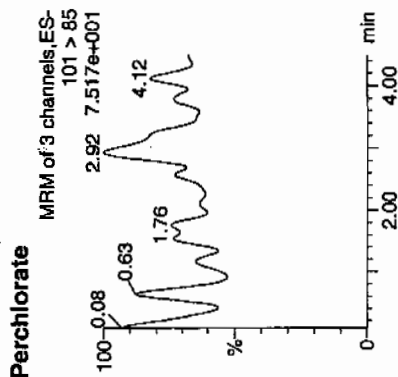
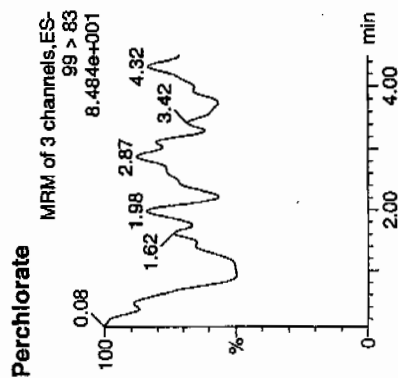
Date: 17-Mar-2010

Time: 17:10:52

ID: IPB005

Vial: 1:1,A

WJ
68-13-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB005	Perchlorate	99 > 83											0.00
IPB005	Perchlorate-101	101 > 85											
IPB005	Perchlorate-O(18)	107 > 89	2.87	10827.487	10827.487	bb			0.4426	88.51	-11.49	1532.6...	

WJ
3/19/10

Quantify Sample Report MassLynx 4.0 SP4

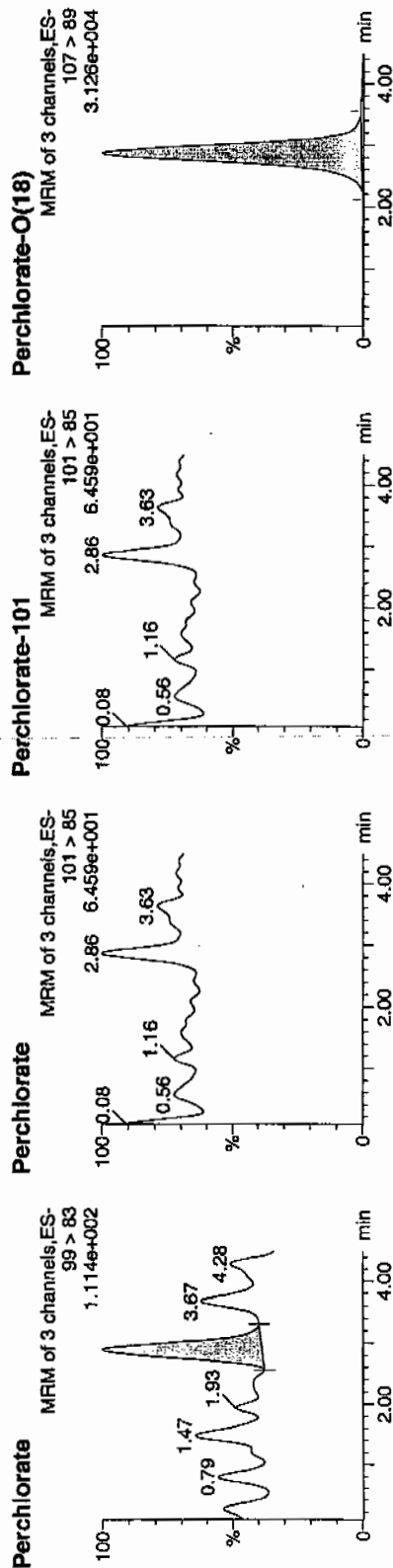
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
 Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317042a
 Date: 17-Mar-2010
 Time: 17:56:10
 ID: IPB006
 Vial: 1:1,A

03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB006	Perchlorate	99 > 83	2.89	20.294	20.294	bb			0.0007			27.262	0.00
IPB006	Perchlorate-101	101 > 85											
IPB006	Perchlorate-O(18)	107 > 89	2.86	10574.932	10574.932	bb			0.4322	86.45	-13.55	1538.2...	

μV
3/19/10

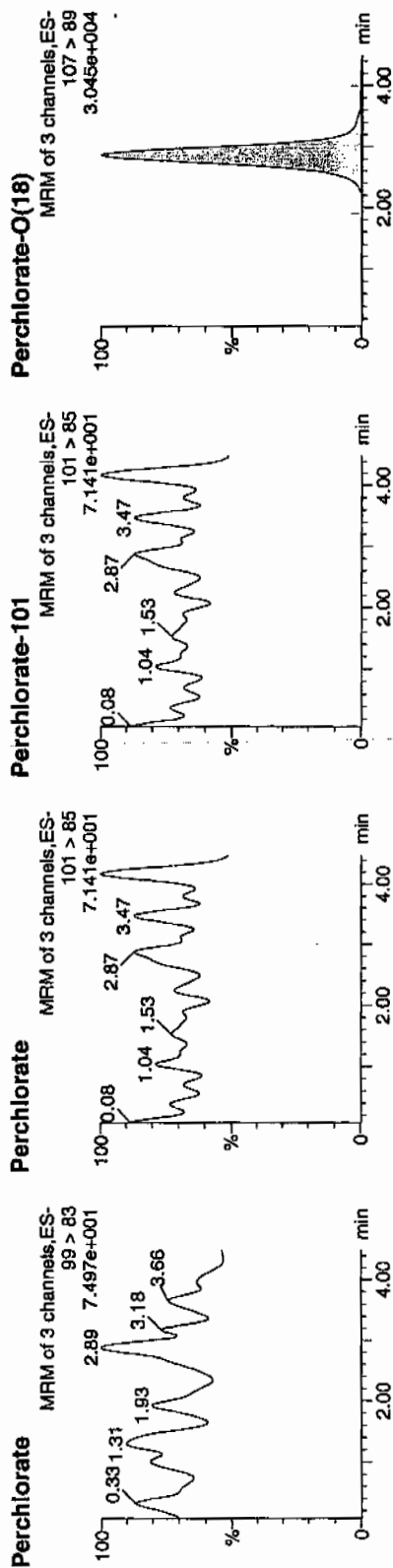
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317049a
Date: 17-Mar-2010
Time: 18:49:18
ID: IPB007
Vial: 1:1,A

03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/ml	%Rec	%Dev	S/N	Ion Ratio
IPB007	Perchlorate	99 > 83											0.00
IPB007	Perchlorate-101	101 > 85											
IPB007	Perchlorate-O(18)	107 > 89	2.86	10392.783	10392.783	bb			0.4248	84.96	-15.04	5888.9...	

1407
3/18/10

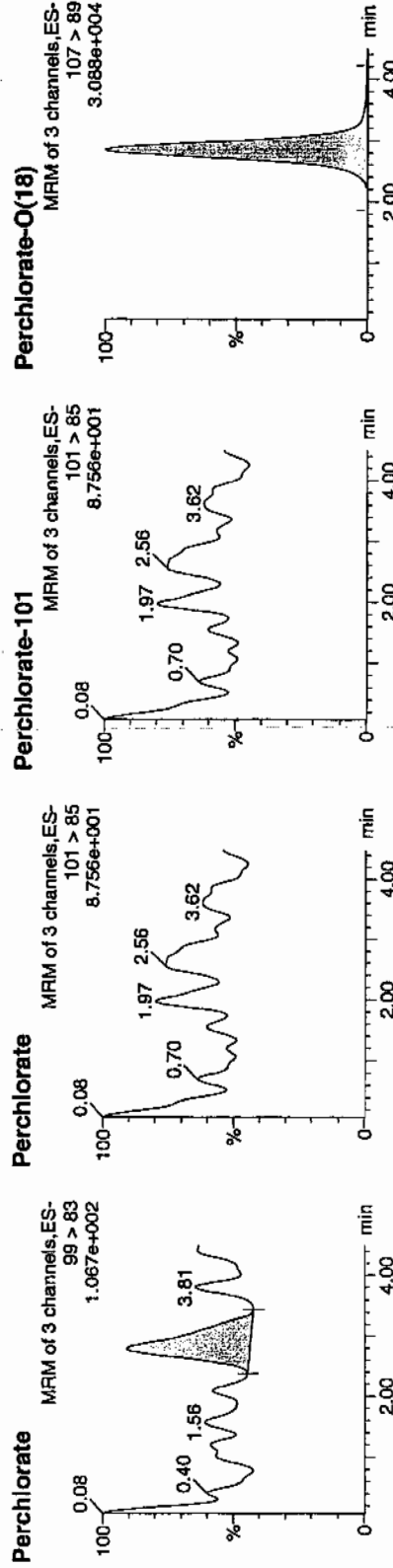
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317061a
Date: 17-Mar-2010
Time: 20:20:09
ID: IPB008
Vial: 1:1,A

03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/ml	%Rec	%Dev	S/N	Ion Ratio
IPB008	Perchlorate	99 > 83	2.79	22.842	22.842	bb			0.0008			6.118	0.00
IPB008	Perchlorate-101	101 > 85											
IPB008	Perchlorate-O(18)	107 > 89	2.84	10598.528	10598.528	bb			0.4332	86.64	-13.36	1818.9...	

not
3/18/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
 Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317072a

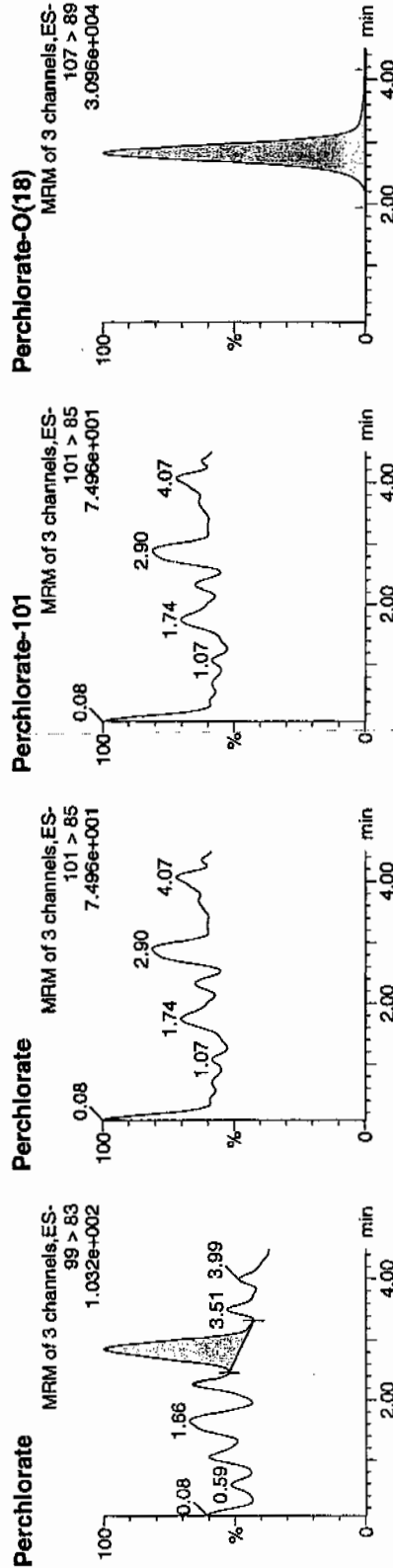
Date: 17-Mar-2010

Time: 21:43:30

ID: IPB009

Vial: 1:1,A

03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
IPB009	Perchlorate	99 > 83	2.86	17.957	17.957	bb			0.0006			26.519	0.00
IPB009	Perchlorate-101	101 > 85											
IPB009	Perchlorate-O(18)	107 > 89	2.84	10683.649	10683.649	bb			0.4367	87.34	-12.66	2296.4...	

107
3/19/10

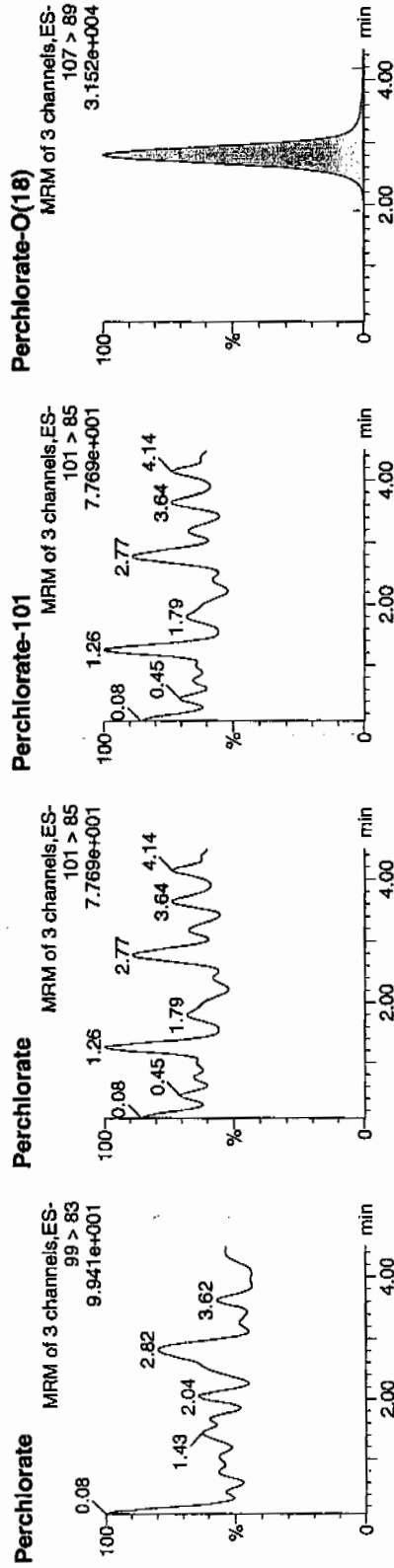
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317098a
Date: 18-Mar-2010
Time: 01:01:08
ID: IPB011
Vial: 1:1,A

03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB011	Perchlorate	99 > 83											0.00
IPB011	Perchlorate-101	101 > 85											
IPB011	Perchlorate-O(18)	107 > 89	2.80	11088.447	11088.447	bb			0.4532	90.64	-9.36	1393.4...	

WAT
3/18/10

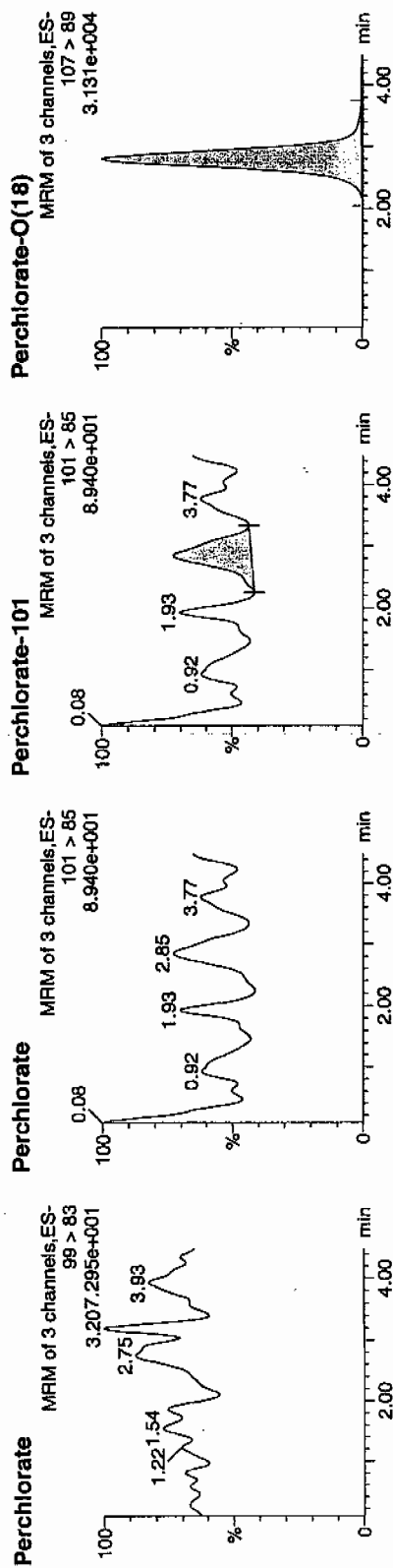
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317101a
Date: 18-Mar-2010
Time: 01:24:05
ID: IPB012
Vial: 1:1,A

03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB012	Perchlorate	99 > 83											
IPB012	Perchlorate-101	101 > 85	2.85	11.874	11.874	bb			0.0012	87.55	-12.45	11.731	
IPB012	Perchlorate-O(18)	107 > 89	2.80	10710.457	10710.457	bb			0.4378			885.264	

11.731
3.131

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317111a

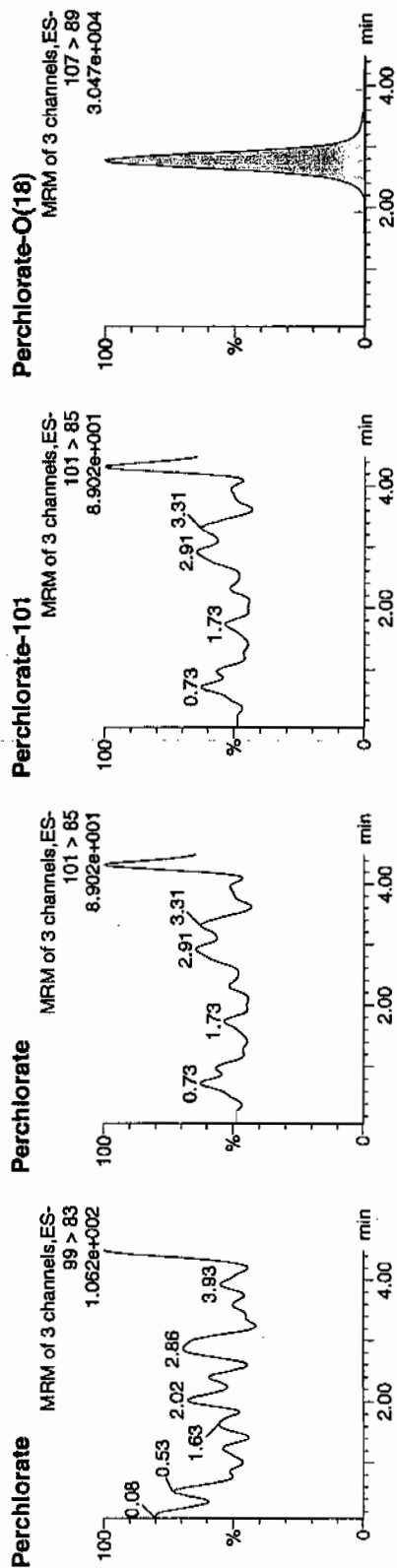
Date: 18-Mar-2010

Time: 02:41:13

ID: IPB013

Vial: 1:1,A

03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	IS/N	Ion Ratio
IPB013	Perchlorate	99 > 83											0.00
IPB013	Perchlorate-101	101 > 85											
IPB013	Perchlorate-O(18)	107 > 89	2.77	10451.049	10451.049	bb			0.4272	85.43	-14.57	1110.7...	

WAT
3/18/10

Quantify Sample Report MassLynx 4.0 SP4

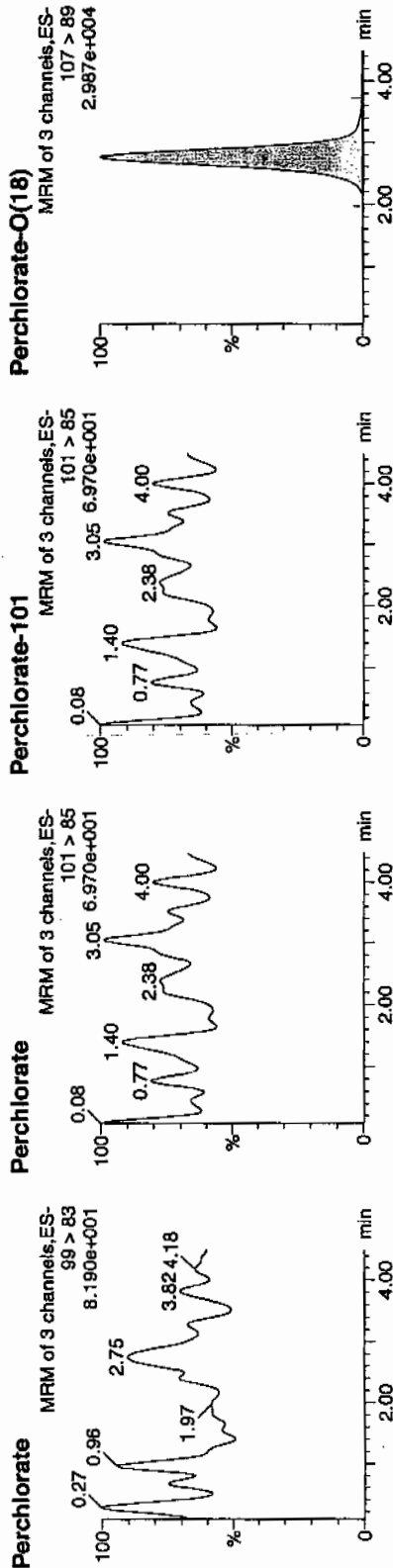
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317124a
Date: 18-Mar-2010
Time: 04:19:34
ID: IPB014
Vial: 1:1,A

03-12-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB014	Perchlorate	99 > 83											0.00
IPB014	Perchlorate-101	101 > 85											
IPB014	Perchlorate-O(18)	107 > 89	2.76	10229.089	10229.089	bb			0.4181	83.62	-16.38	9385.3...	

4477
3/19/10

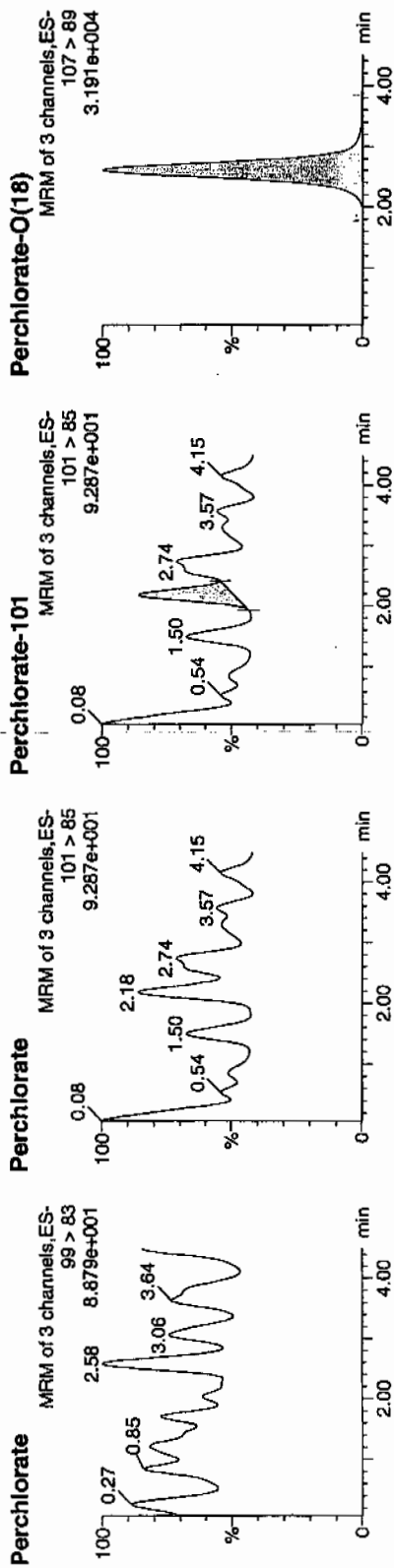
Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318008a
Date: 18-Mar-2010
Time: 16:15:20
ID: IPB002
Vial: 1:1,A



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
IPB002	Perchlorate	99 > 83	2.18	7.701	7.701	bb			0.0008	99.20	-0.80	7.796	0.00
IPB002	Perchlorate-101	101 > 85	2.61	10521.018	10521.018	bb			0.4960			2297.4...	
IPB002	Perchlorate-O(18)	107 > 89											

4.477
3/20/10

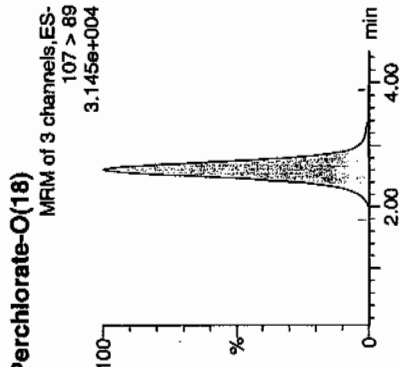
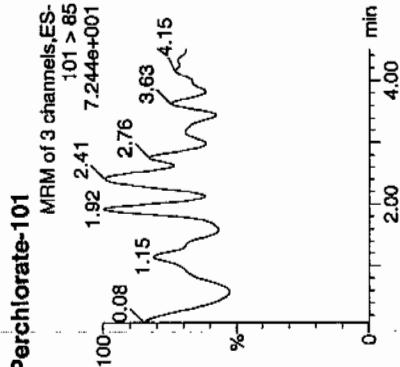
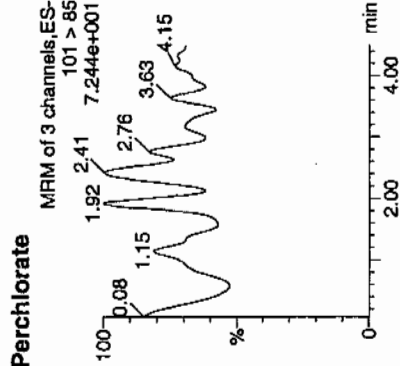
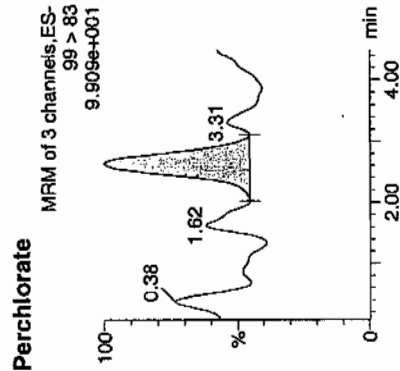
Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318010a
Date: 18-Mar-2010
Time: 16:30:25
ID: IPB003
Vial: 1:1,A



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	IS/N	Ion Ratio
IPB003	Perchlorate	99 > 83	2.64	23.061	23.061	bb			0.0008			3.530	0.00
IPB003	Perchlorate-101	101 > 85											
IPB003	Perchlorate-O(18)	107 > 89	2.61	10502.757	10502.757	bb			0.4951	99.02	-0.98	2502.8...	

4077
3/19/10

Quantify Sample Report MassLynx 4.0 SP4

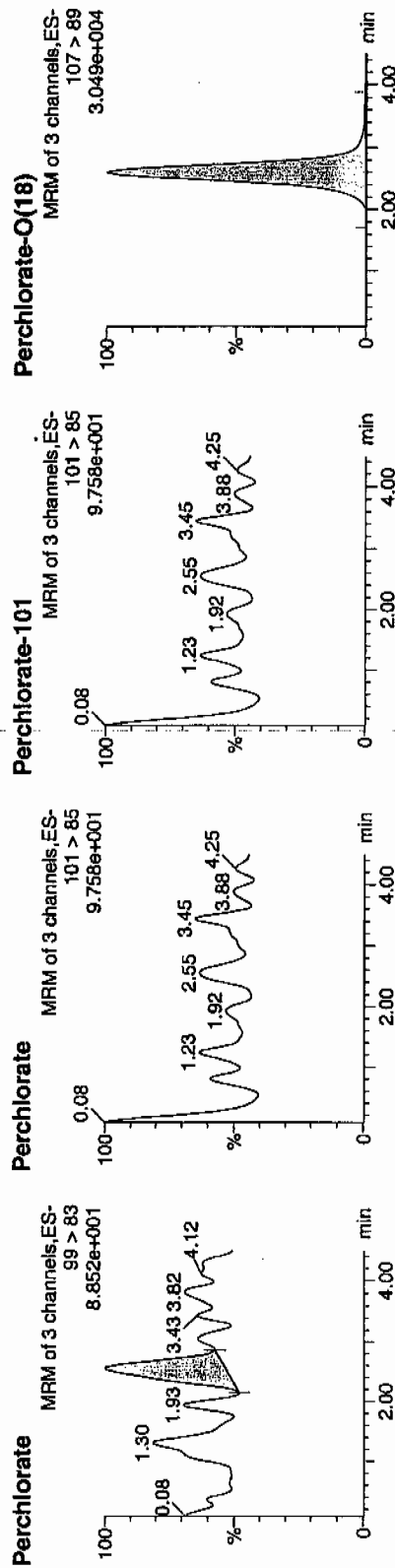
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318023a
Date: 18-Mar-2010
Time: 18:09:12
ID: IPB004
Vial: 1:1,A

03-11-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	S/N	Ion Ratio
IPB004	Perchlorate	99 > 83	2.55	14,728	14,728	bb			0.0005			15,782	0.00
IPB004	Perchlorate-101	101 > 85											
IPB004	Perchlorate-O(18)	107 > 89	2.60	10125.706	10125.706	bb			0.4773	95.47	-4.53	2985.1...	

107
3/20/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qtd

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time

Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318036a

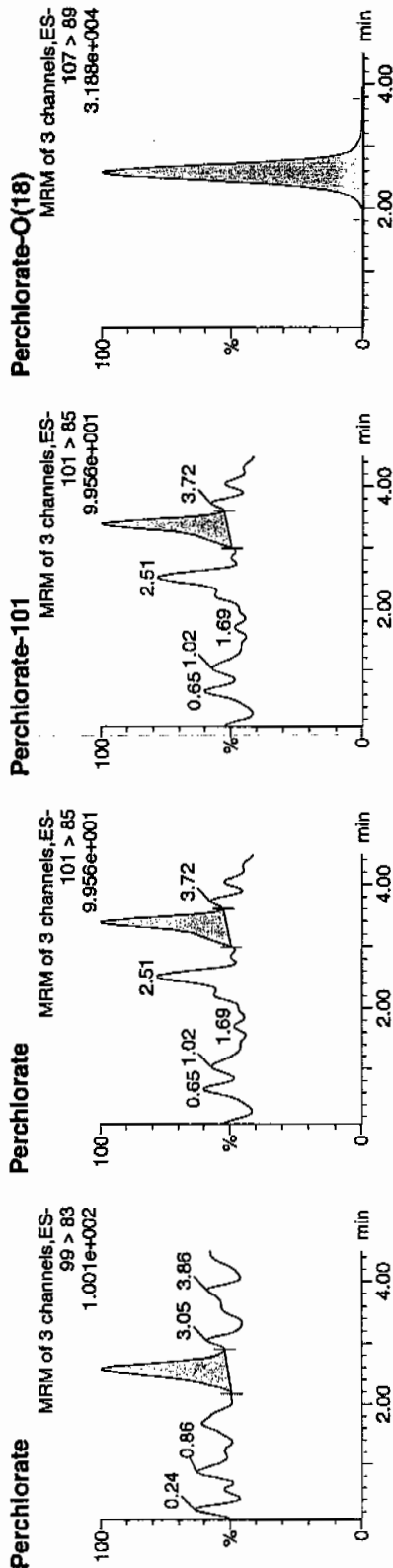
Date: 18-Mar-2010

Time: 19:47:48

ID: IPB005

Vial: 1:1,A

03-19-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB005	Perchlorate	99 > 83	2.58	13.906	13.906	bb			0.0005			9.591	1.20
IPB005	Perchlorate-101	101 > 85	3.38	11.565	11.565	bb			0.0013			9.523	
IPB005	Perchlorate-O(18)	107 > 89	2.58	10513.121	10513.121	bb			0.4956	99.12	-0.88	1661.3...	

107
3/15/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
 Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318049a

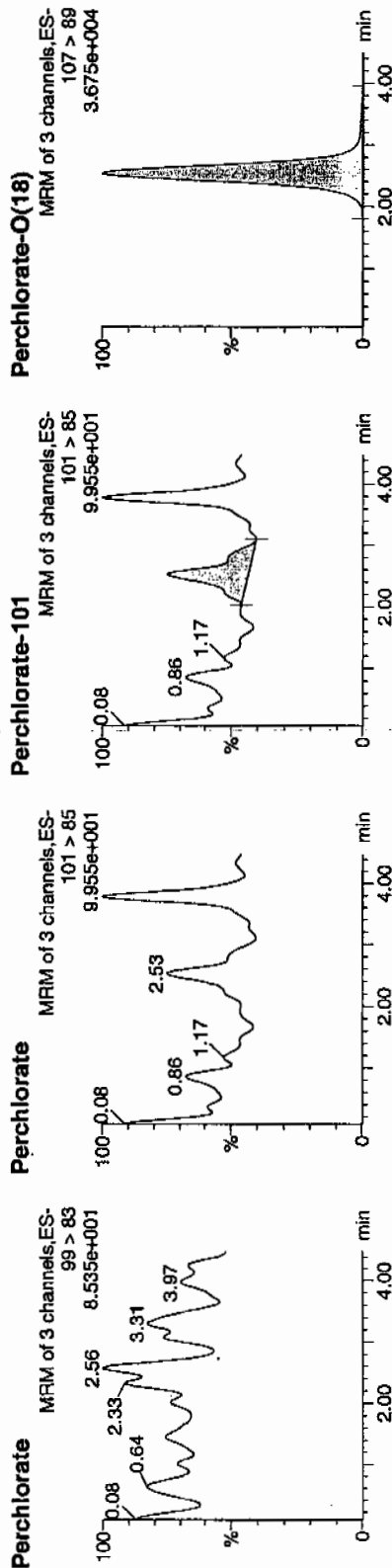
Date: 18-Mar-2010

Time: 21:26:30

ID: IPB006

Vial: 1:1,A

03-14-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB006	Perchlorate	99 > 83											0.00
IPB006	Perchlorate-101	101 > 85	2.53	11.712	11.712	bb			0.0013			24.286	
IPB006	Perchlorate-O(18)	107 > 89	2.54	12402.828	12402.828	bb			0.5847	116.94	16.94	941.441	

1407
3/20/10

Nairb.ref

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

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

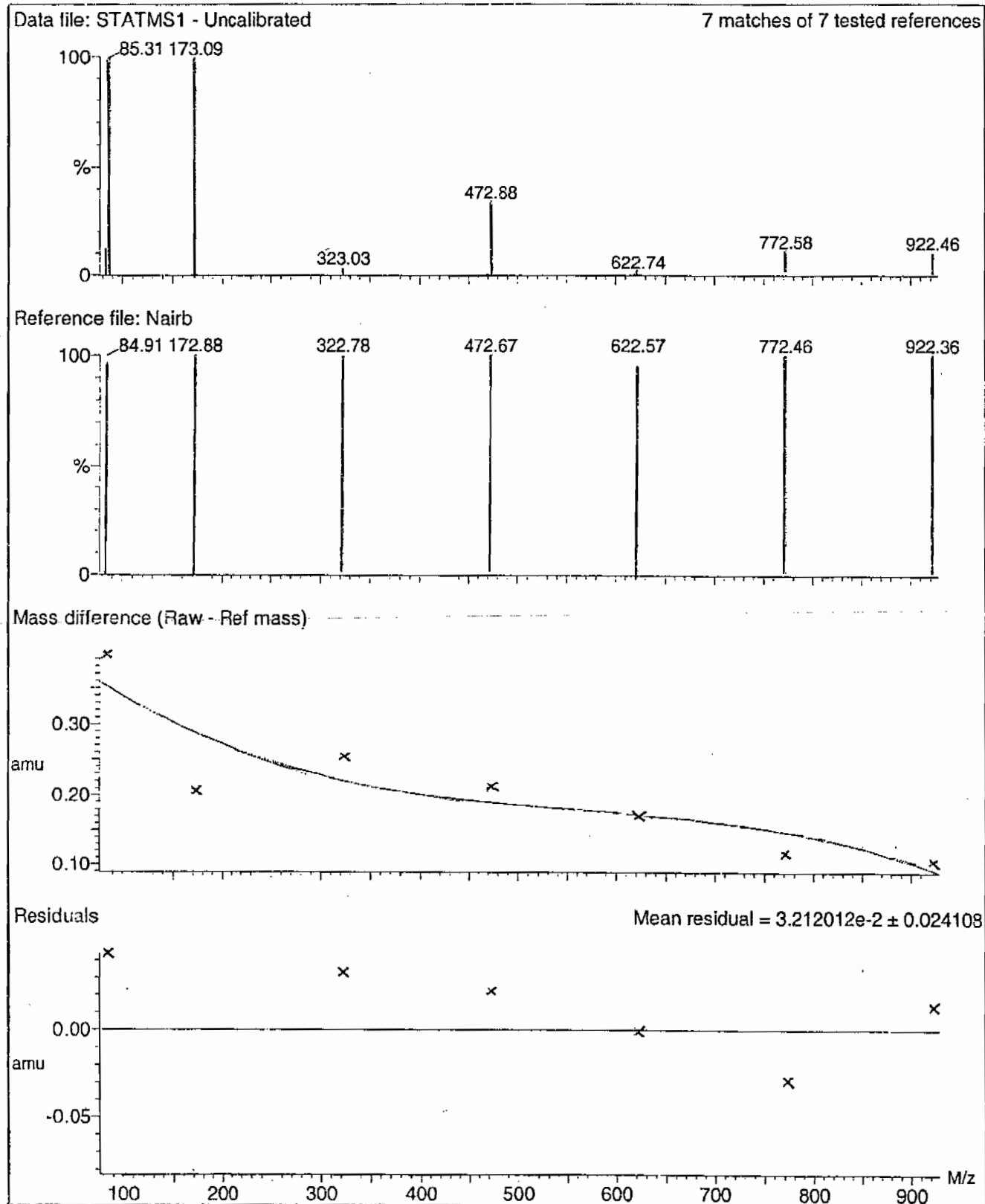
QUANTO ULTIMA: nairb_01_08_08.cal

Calibration Report - MS1 Static

Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

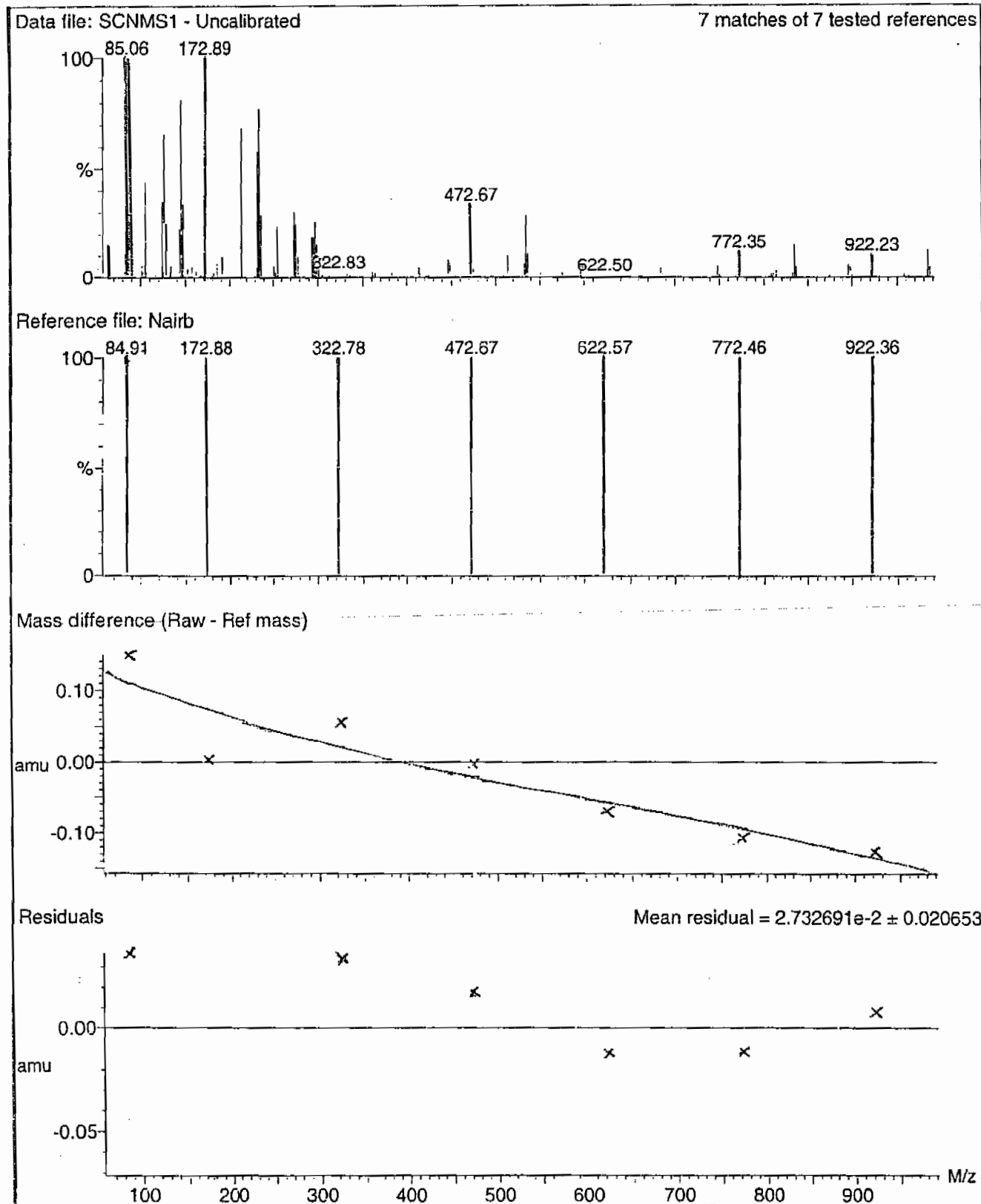
DATA HIGHLIGHTED BY CURV 01-07-08



Calibration Report - MS1 Scanning

Page 1 of 1

Printed: Tue Jan 08 12:20:09 2008



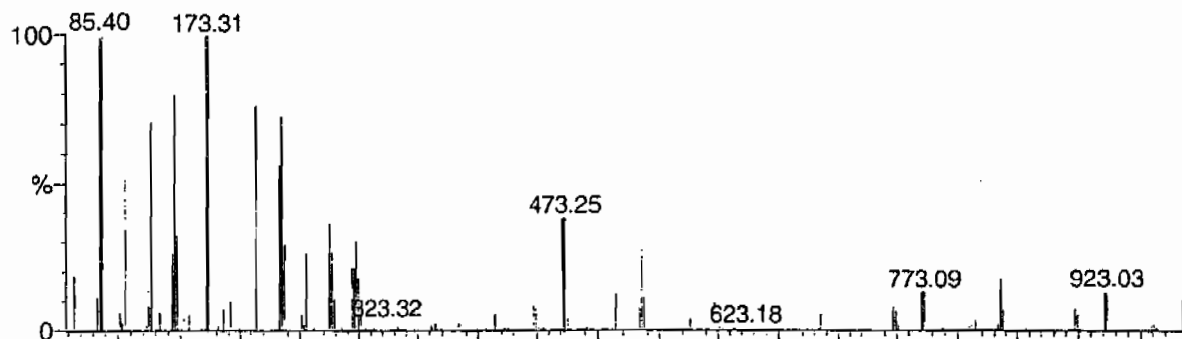
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

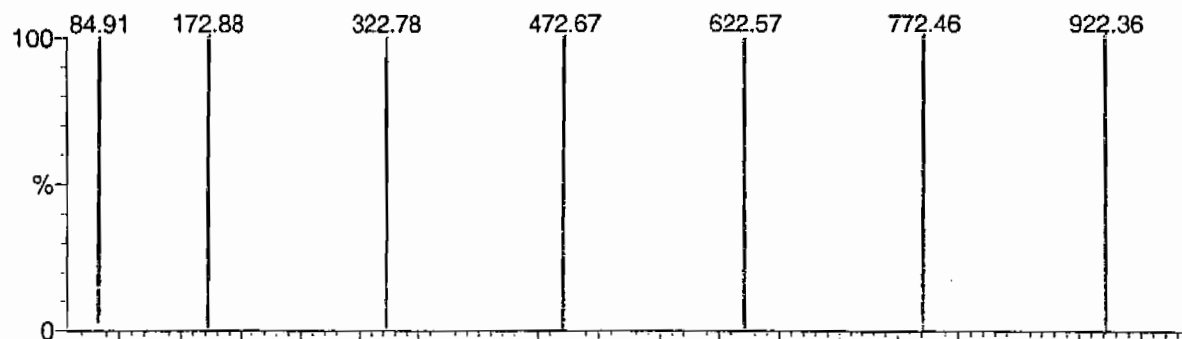
Printed: Tue Jan 08 12:21:04 2008

Data file: FASTMS1 - Uncalibrated

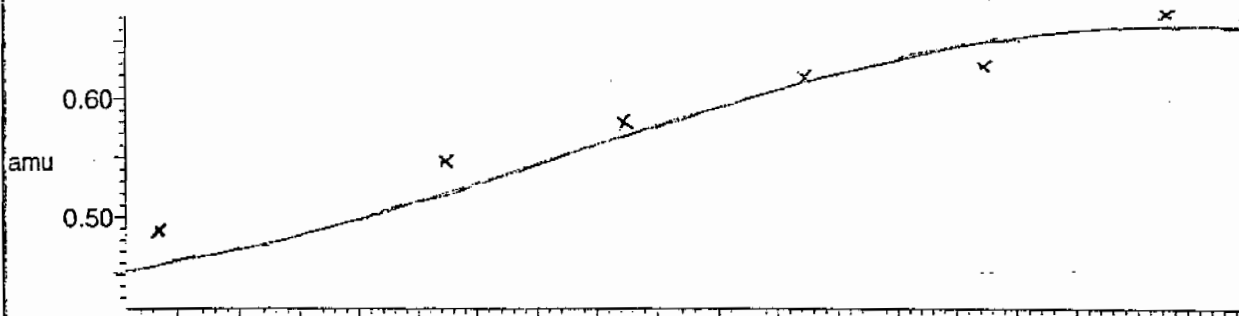
7 matches of 7 tested references



Reference file: Nairb

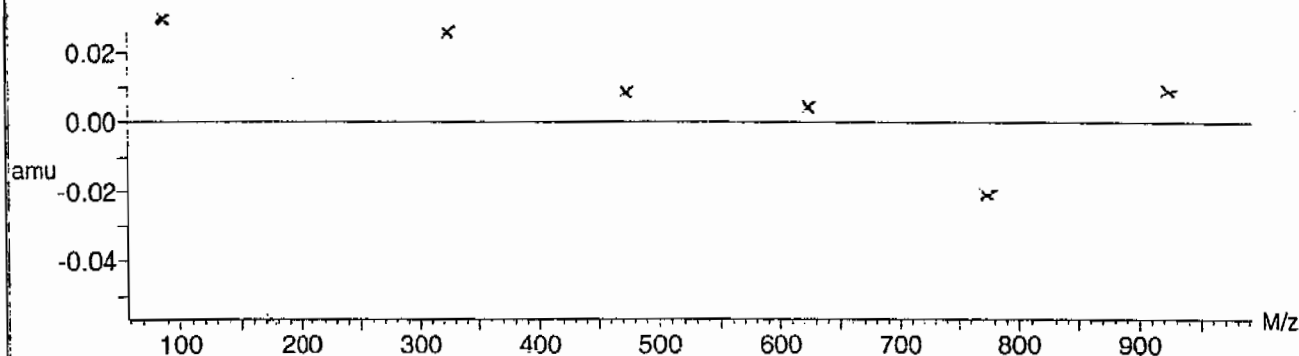


Mass difference (Raw - Ref mass)



Residuals

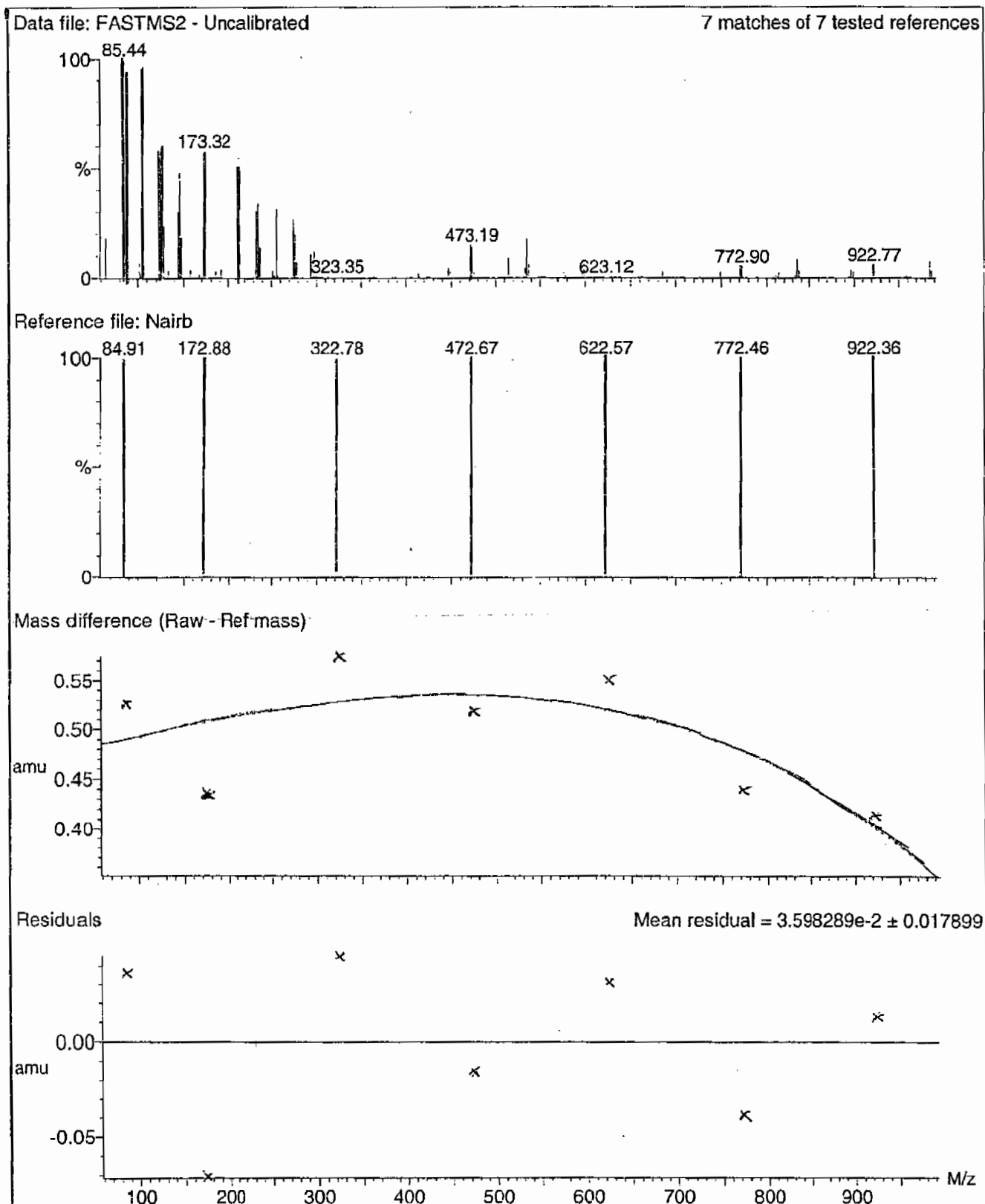
Mean residual = $2.224580 \times 10^{-2} \pm 0.016544$



Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

Printed: Tue Jan 08 12:23:51 2008



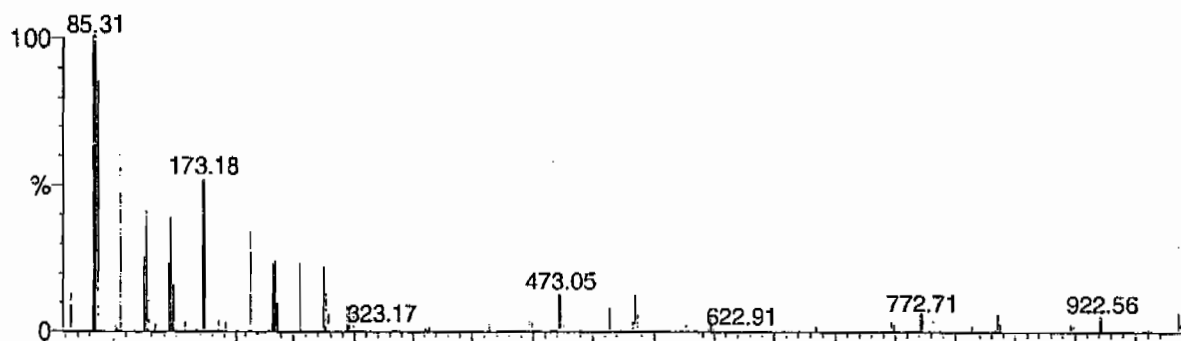
Calibration Report - MS2 Scanning

Page 1 of 1

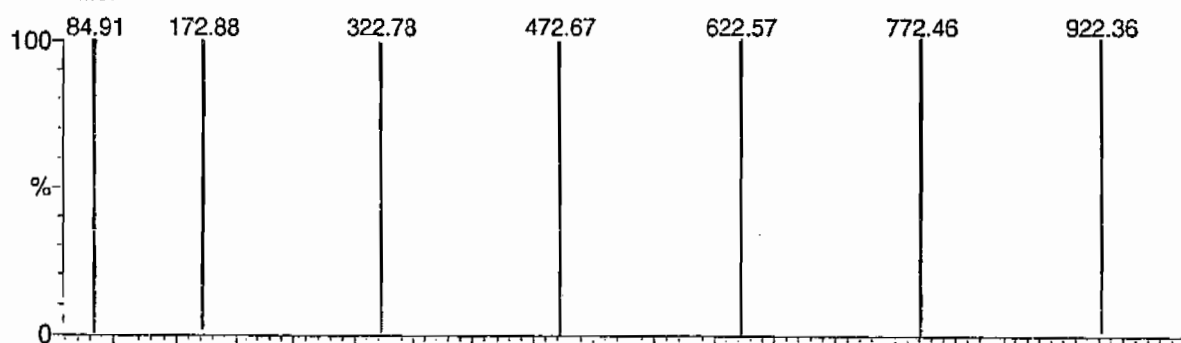
Printed: Tue Jan 08 12:22:56 2008

Data file: SCNMS2 - Uncalibrated

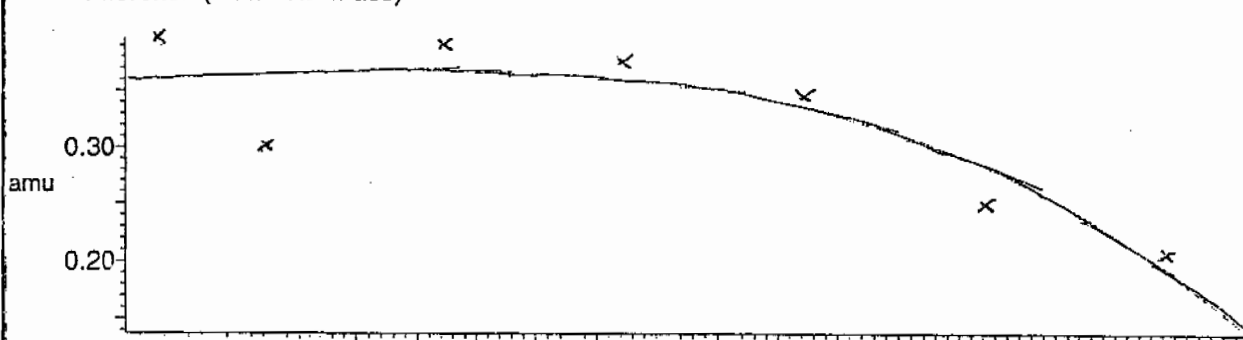
7 matches of 7 tested references



Reference file: Nairb

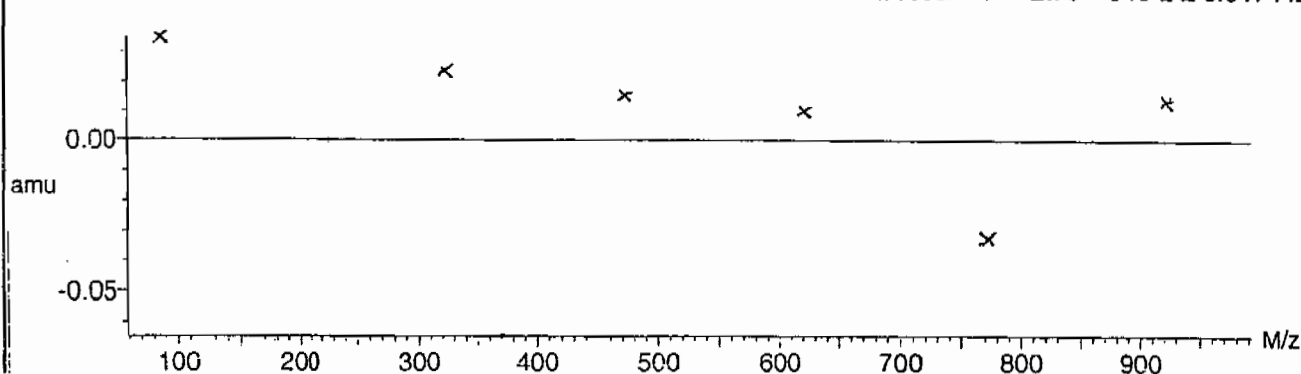


Mass difference (Raw - Ref mass)



Residuals

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



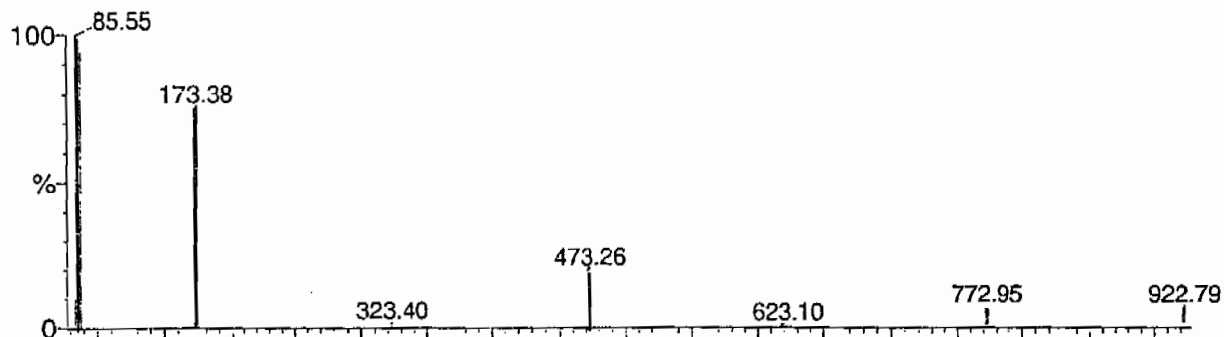
Calibration Report - MS2 Static

Page 1 of 1

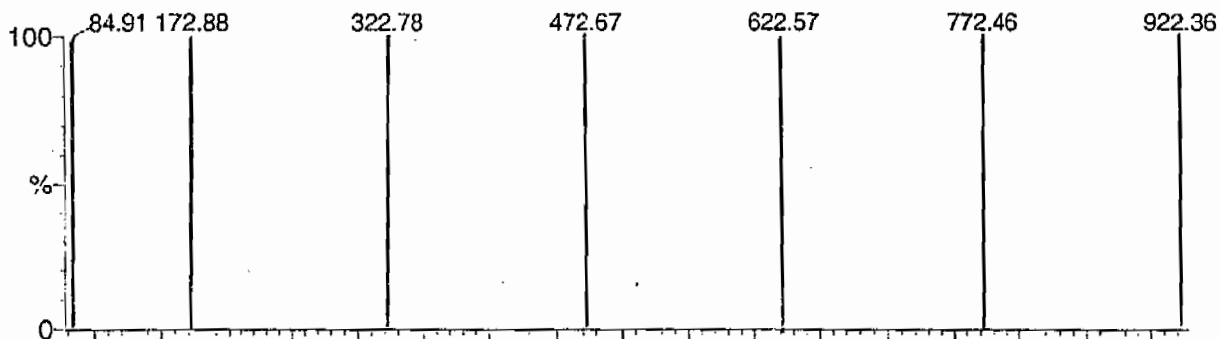
Printed: Tue Jan 08 12:21:59 2008

Data file: STATMS2 - Uncalibrated

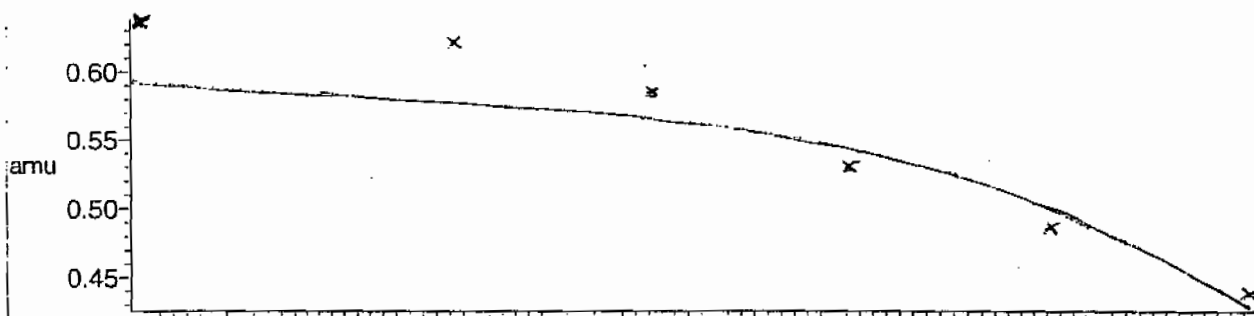
7 matches of 7 tested references



Reference file: Nairb

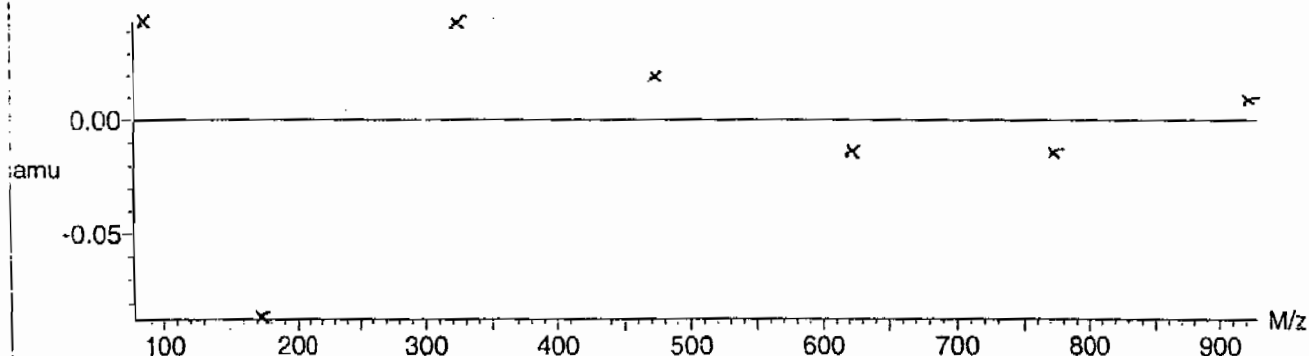


Mass difference (Raw - Ref mass)



Residuals

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



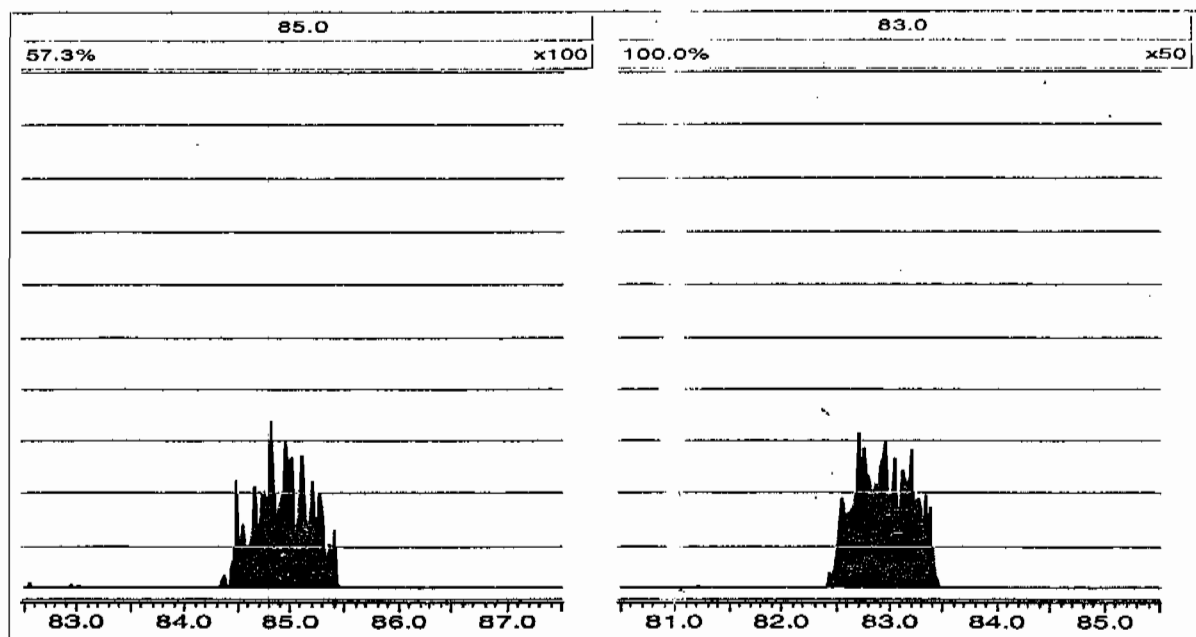
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Wednesday, March 17, 2010 09:48:37 Eastern Standard Time



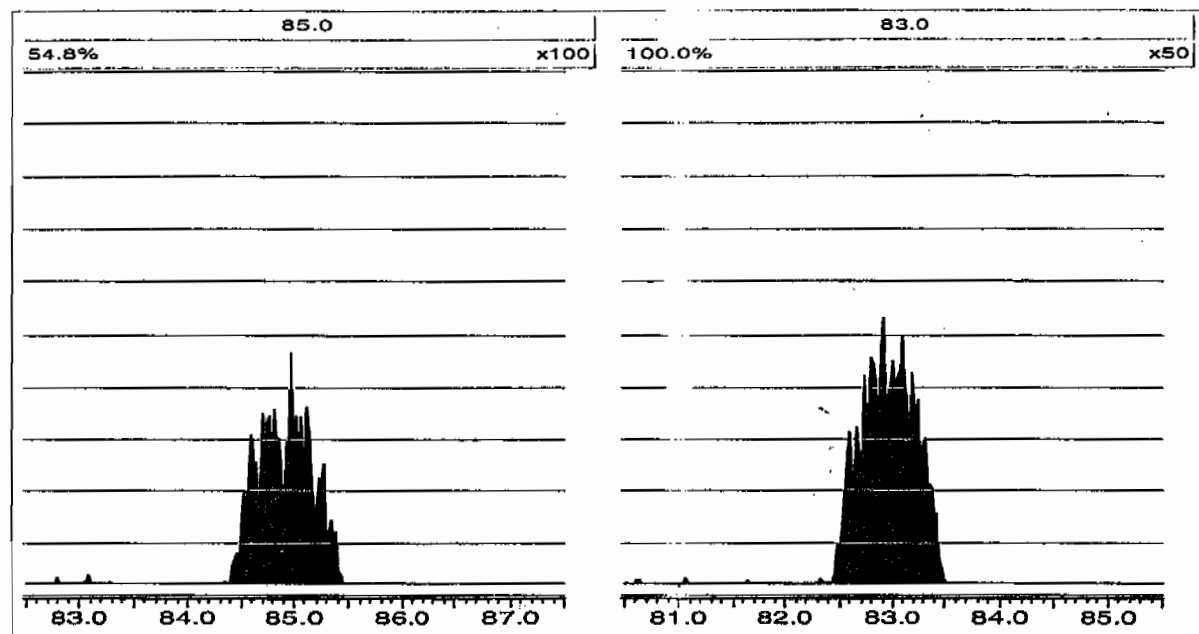
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Thursday, March 18, 2010 08:59:42 Eastern Standard Time



Perchlorate RT And Area Summary

GEL Job No.(SDG): 10-2138-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS

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

Sample ID	Datafile	Run Date	Area	RT	RT CLO4	RRT	Q 0.98-1.02
MidLevel Standard Area	per0317006a	17-MAR-10	11903				
Lower Area Limit			5951.5				
Upper Area Limit			23806				
1202056692	per0317102a	18-MAR-10 01:32	11641.3	2.81	2.812	1.001	
1202056693	per0317103a	18-MAR-10 01:39	10940.3	2.8	2.82457	1.009	
1202056696	per0317104a	18-MAR-10 01:47	11788.6	2.84	2.84923	1.003	
248247001	per0317120a	18-MAR-10 03:49	11400	2.74	2.74995	1.004	
1202056694	per0317121a	18-MAR-10 03:56	11187.4	2.75	2.76242	1.005	
1202056695	per0317122a	18-MAR-10 04:04	11547.2	2.74	2.76238	1.008	

Perchlorate RT And Area Summary

GEL Job No.(SDG): 10-2138-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS

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

Sample ID	Datafile	Run Date	Area	RT	RT CLO4	RRT	Q 0.98-1.02
MidLevel Standard Area	per0318006a	18-MAR-10	10946.9				
Lower Area Limit			5473.45				
Upper Area Limit			21893.8				
248247002	per0318041a	18-MAR-10 20:25	11079.9	2.56	2.57602	1.006	
248247003	per0318042a	18-MAR-10 20:33	10855.6	2.56	2.58833	1.011	
248247004	per0318043a	18-MAR-10 20:40	12927.4	2.56	2.576	1.006	
248247005	per0318044a	18-MAR-10 20:48	12311	2.56	2.57603	1.006	
248247006	per0318045a	18-MAR-10 20:56	13039	2.56	2.576	1.006	
248247007	per0318046a	18-MAR-10 21:03	13010	2.56	2.58835	1.011	
248247008	per0318047a	18-MAR-10 21:11	12336.6	2.56	2.56355	1.001	

SAMPLE DATA

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: 259025
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-8464
 Date Received: 27-FEB-10
 GEL Job No (SDG): 10-2138-1
 GEL Sample ID: 248247001
 Date Filtered: 10-MAR-10
 Injection Volume (uL): 20
 %Solids: 90.5

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.553	2.21	0.553	ug/kg	U	1	18-MAR-10 03:49	per0317120a
	Perchlorate Isotope Ratio						1	18-MAR-10 03:49	per0317120a
14797-73-0	Perchlorate-101	.553	2.21	0.553	ug/kg	U	1	18-MAR-10 03:49	per0317120a
	Perchlorate-O(18)			5.15	ug/kg		1	18-MAR-10 03:49	per0317120a

[^] 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: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317120a

Date: 18-Mar-2010

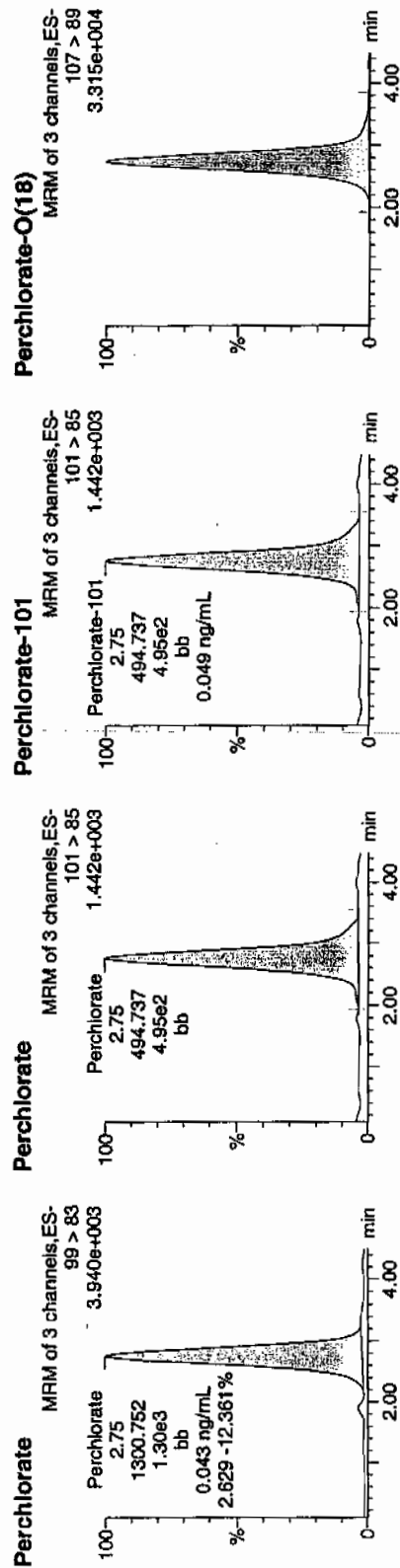
Time: 03:49:13

ID: 248247001

Vial: 3:3,D

03-18-10

19224 | 959024 | 50220 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
248247001	Perchlorate	99 > 83	2.75	1300.752	1300.752	bb			0.0431	-		65.648	2.63
248247001	Perchlorate-101	101 > 85	2.75	494.737	494.737	bb			0.0495			181.881	
248247001	Perchlorate-O(18)	107 > 89	2.74	11400.030	11400.030	bb			0.4660	93.19	-6.81	3137.1...	

1300.752
494.737
- 2.6292

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: 959025
 Extraction Type: Solid Prep
 Client Sample No. RE36-10-8475
 Date Received: 27-FEB-10
 GEL Job No (SDG): 10-2138-1
 GEL Sample ID: 248247002
 Date Filtered: 10-MAR-10
 Injection Volume (uL): 20
 Sample Volume/Weight: 2.00 g
 % Solids: 91.2

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.548	2.19	0.811	ug/kg	J	1	18-MAR-10 20:25	per0318041a
	Perchlorate Isotope Ratio			2.96			1	18-MAR-10 20:25	per0318041a
14797-73-0	Perchlorate-101	.548	2.19	0.856	ug/kg	J	1	18-MAR-10 20:25	per0318041a
	Perchlorate-O(18)			5.73	ug/kg		1	18-MAR-10 20:25	per0318041a

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

*Concentration =

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

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time

Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318041a

Date: 18-Mar-2010

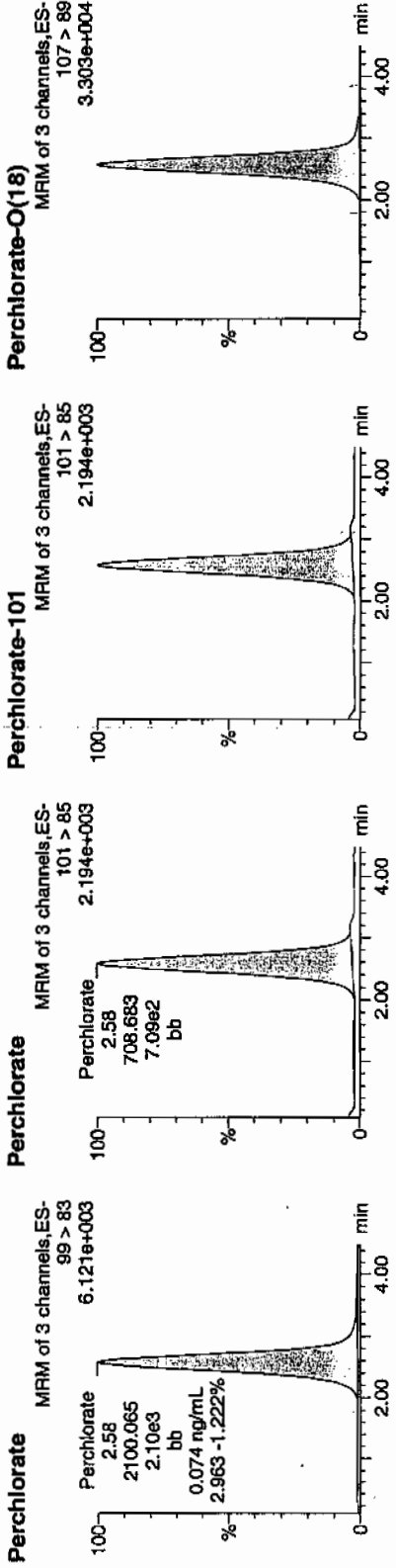
Time: 20:25:39

ID: 248247002

Vial: 1:6,F

05.14-10

1422-1954029 | 5070 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248247002	Perchlorate	99 > 83	2.58	2100.065	2100.065	bb			0.0739	0.0781		757.692	2.96
248247002	Perchlorate-101	101 > 85	2.58	708.683	708.683	bb			0.0781	0.0781		479.244	
248247002	Perchlorate-O(18)	107 > 89	2.58	11079.916	11079.916	bb			0.5223	104.47	4.47	3962.3...	

$$\frac{2100.065}{31410} = 0.0739$$

$$\frac{30466.6}{28413.1} = 1.072$$

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: 959025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8471

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 248247003

Date Filtered: 10-MAR-10

Injection Volume (mL): 20

%Solids: 82

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.565	2.26	0.565	ug/kg	U	1	18-MAR-10 20:33	per0318042a
	Perchlorate Isotope Ratio						1	18-MAR-10 20:33	per0318042a
14797-73-0	Perchlorate-101	.565	2.26	0.565	ug/kg	U	1	18-MAR-10 20:33	per0318042a
	Perchlorate-O(18)			5.78	ug/kg		1	18-MAR-10 20:33	per0318042a

[^] 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: Charliers W. Wilson

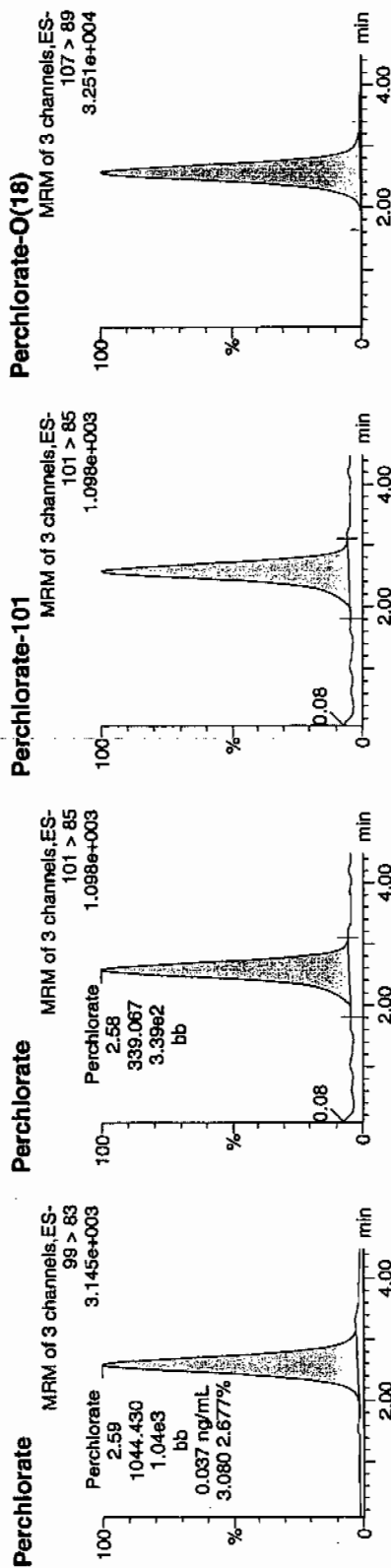
Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318042a
Date: 18-Mar-2010
Time: 20:33:12
ID: 248247003
Vial: 1:7,A

000
03-14-10

1222 | 959029 | 2010 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SS/N	Ion Ratio
248247003	Perchlorate	99 > 83	2.59	1044.430	1044.430	bb			0.0368			327.260	3.08
248247003	Perchlorate-101	101 > 85	2.58	339.067	339.067	bb			0.0373			153.056	
248247003	Perchlorate-O(18)	107 > 89	2.56	10855.551	10855.551	bb			0.5118	102.35	2.35	4864.9...	

1177
3/12/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 959025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8485

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 248247004

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 77

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.653	2.61	2.29	ug/kg	J	1	18-MAR-10 20:40	per0318043a
	Perchlorate Isotope Ratio			3.26			1	18-MAR-10 20:40	per0318043a
14797-73-0	Perchlorate-101	.653	2.61	2.19	ug/kg	J	1	18-MAR-10 20:40	per0318043a
	Perchlorate-O(18)			7.96	ug/kg		1	18-MAR-10 20:40	per0318043a

[^] 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\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318043a

Date: 18-Mar-2010

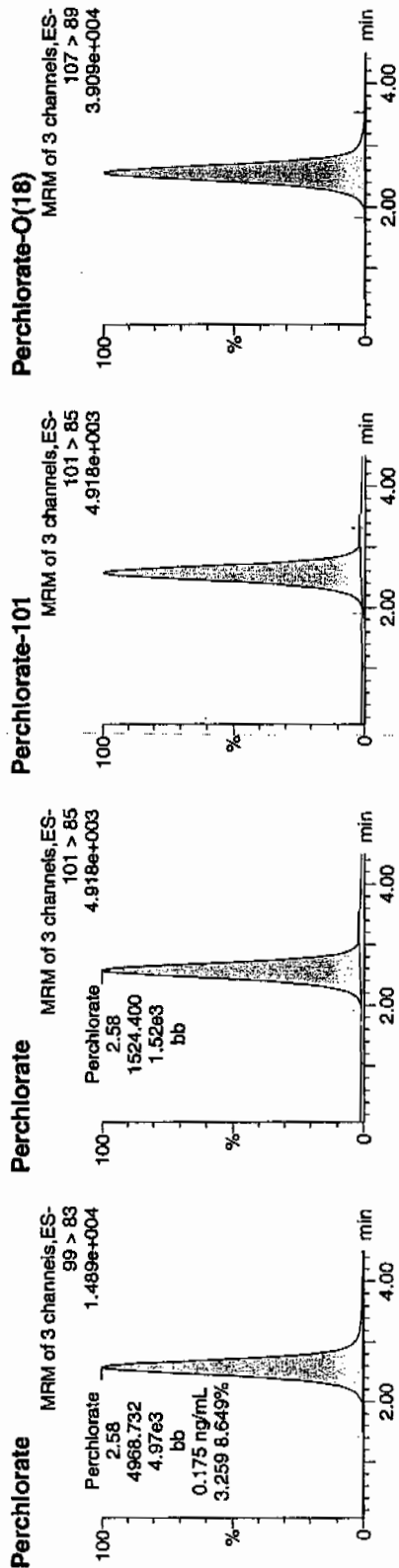
Time: 20:40:46

ID: 248247004

Vial: 1:7,B

03-11-10

159029 | 3020 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248247004	Perchlorate	99 > 83	2.58	4968.732	4968.732	bb			0.1749	2052.1...		3.26	
248247004	Perchlorate-101	101 > 85	2.58	1524.400	1524.400	bb			0.1679	663.405			
248247004	Perchlorate-O(18)	107 > 89	2.56	12927.373	12927.373	bb			0.6094	121.88 - 21.88	2531.1...		

$$\frac{4968.732}{28413.1} = 0.1749$$

4968.732
3/20/10

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: 959025
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-8477
 Date Received: 27-FEB-10
 GEL Job No (SDG): 10-2138-1
 GEL Sample ID: 248247005
 Date Filtered: 10-MAR-10
 Injection Volume (uL): 20
 %Solids: 87

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.574	2.29	0.574	ug/kg	U	1	18-MAR-10 20:48	per0318044a
	Perchlorate Isotope Ratio						1	18-MAR-10 20:48	per0318044a
14797-73-0	Perchlorate-101	.574	2.29	0.574	ug/kg	U	1	18-MAR-10 20:48	per0318044a
	Perchlorate-O(18)			6.66	ug/kg		1	18-MAR-10 20:48	per0318044a

[^] 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 Aliquot
 1
 %Solids

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318044a

Date: 18-Mar-2010

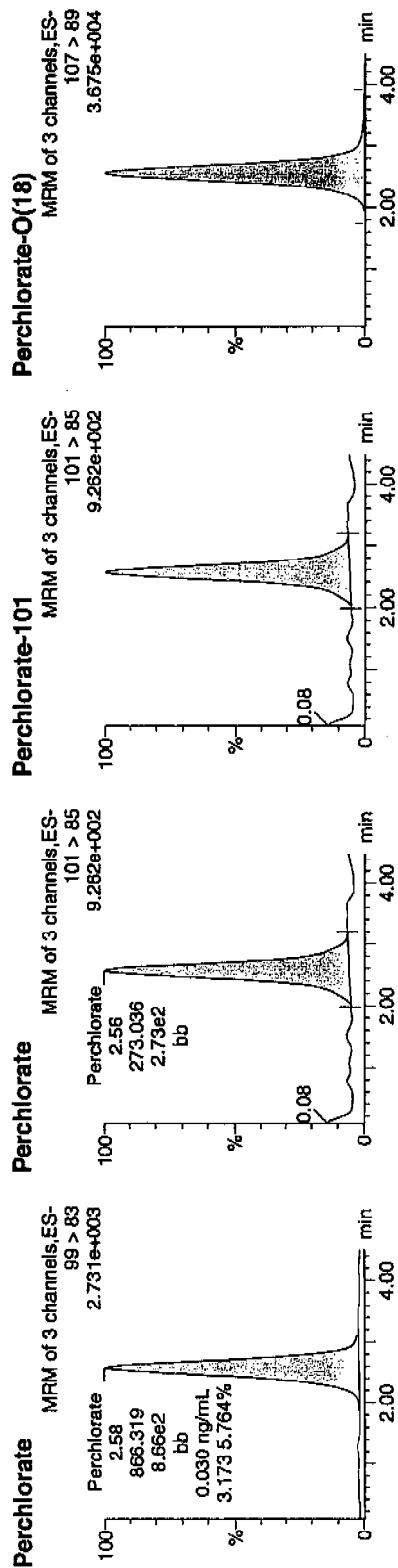
Time: 20:48:20

ID: 248247005

Vial: 1:7,C

20-H-10

12726 | 95025 | 5000 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248247005	Perchlorate	99 > 83	2.58	866.319	866.319	bb			0.0305			101.180	3.17
248247005	Perchlorate-101	101 > 85	2.56	273.036	273.036	bb			0.0301			208.548	
248247005	Perchlorate-O(18)	107 > 89	2.56	12310.988	12310.988	bb			0.5804	116.07	16.07	2638.4...	

1477
3/19/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 959025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8479

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 248247006

Date Filtered: 10-MAR-10

Injection Volume (mL): 20

% Solids: 20

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.557	2.23	0.631	ug/kg	J	1	18-MAR-10 20:56	per0318045a
	Perchlorate Isotope Ratio			2.73			1	18-MAR-10 20:56	per0318045a
14797-73-0	Perchlorate-101	.557	2.23	0.724	ug/kg	J	1	18-MAR-10 20:56	per0318045a
	Perchlorate-O(18)			6.85	ug/kg		1	18-MAR-10 20:56	per0318045a

[^] 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\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318045a

Date: 18-Mar-2010

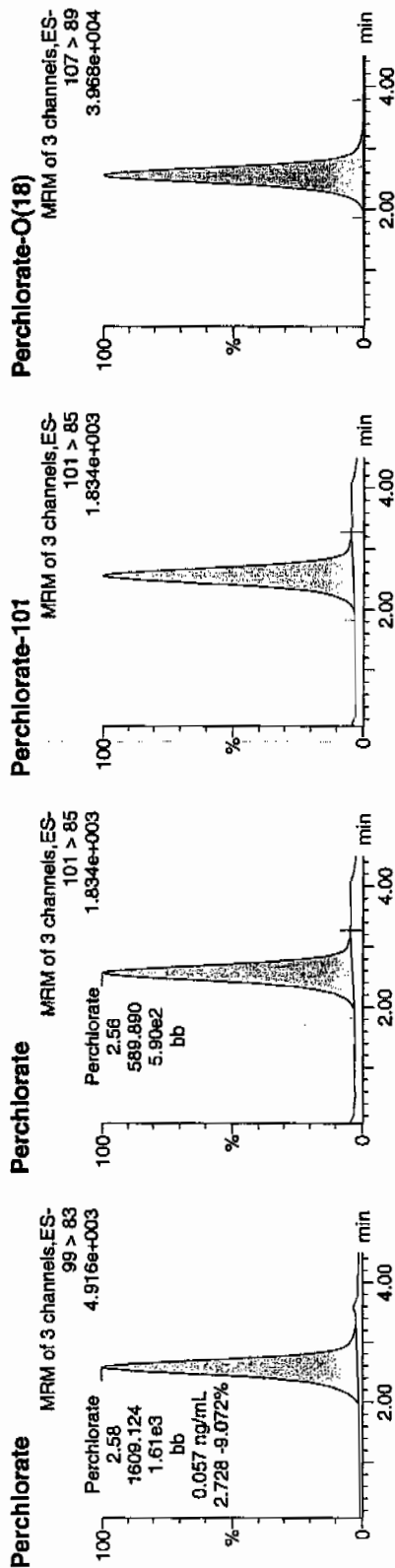
Time: 20:55:02

ID: 248247006

Vial: 1:7,D

159024 | 2020 | 11

03-14-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248247006	Perchlorate	99 > 83	2.58	1609.124	1609.124	bb			0.0566			260.870	2.73
248247006	Perchlorate-101	101 > 85	2.56	589.890	589.890	bb			0.0650			401.530	
248247006	Perchlorate-O(18)	107 > 89	2.56	13038.956	13038.956	bb			0.6147	122.94	22.94	5232.1...	

1609.124
589.890

2.7278

3/12/10

3/12/10

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: 959025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8484

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 248247007

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 84

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.597	2.39	0.796	ug/kg	J	1	18-MAR-10 21:03	per0318046a
	Perchlorate Isotope Ratio			3.38			1	18-MAR-10 21:03	per0318046a
14797-73-0	Perchlorate-101	.597	2.39	0.737	ug/kg	J	1	18-MAR-10 21:03	per0318046a
	Perchlorate-O(18)			7.32	ug/kg		1	18-MAR-10 21:03	per0318046a

[^] 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: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318046a

Date: 18-Mar-2010

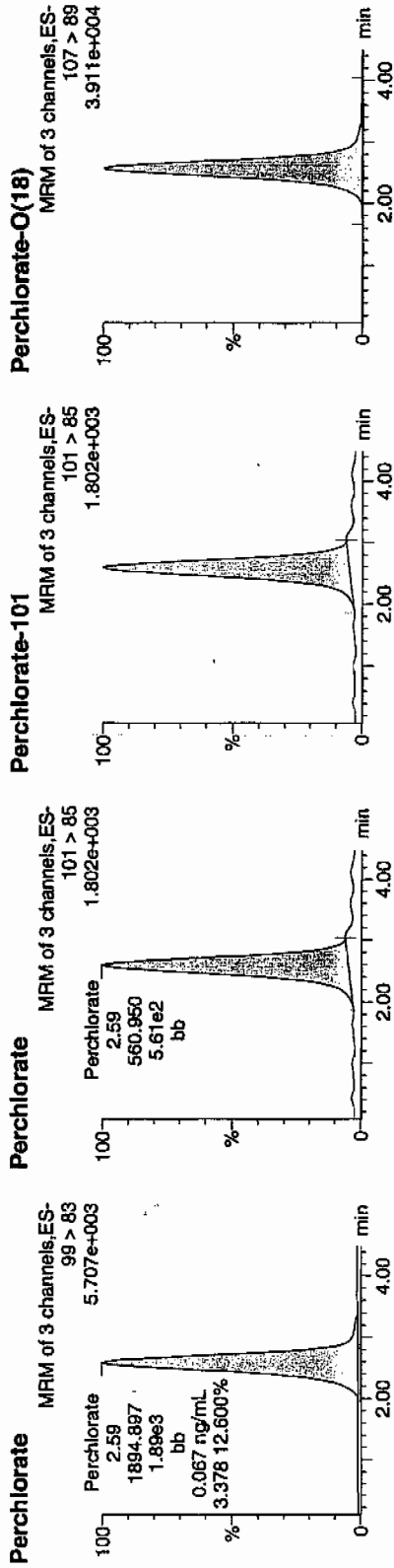
Time: 21:03:43

ID: 248247007

Vial: 1:7,E

622
03-11-10

LAN | 959029 | 5020 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
248247007	Perchlorate	99 > 83	2.59	1894.897	1894.897	bb			0.0667			853.932	3.38
248247007	Perchlorate-101	101 > 85	2.59	560.950	560.950	bb			0.0618			202.613	
248247007	Perchlorate-O(18)	107 > 89	2.56	13009.953	13009.953	bb			0.6133	122.66	22.66	4303.1...	

$$\frac{1894.897}{28413.1} = 0.0667$$

not
3/20/10

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: 959025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8481

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 248247008

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 82

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.563	2.25	0.683	ug/kg	J	1	18-MAR-10 21:11	per0318047a
	Perchlorate Isotope Ratio			2.69			1	18-MAR-10 21:11	per0318047a
14797-73-0	Perchlorate-101	.563	2.25	0.793	ug/kg	J	1	18-MAR-10 21:11	per0318047a
	Perchlorate-O(18)			6.55	ug/kg		1	18-MAR-10 21:11	per0318047a

[^] 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\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318047a

Date: 18-Mar-2010

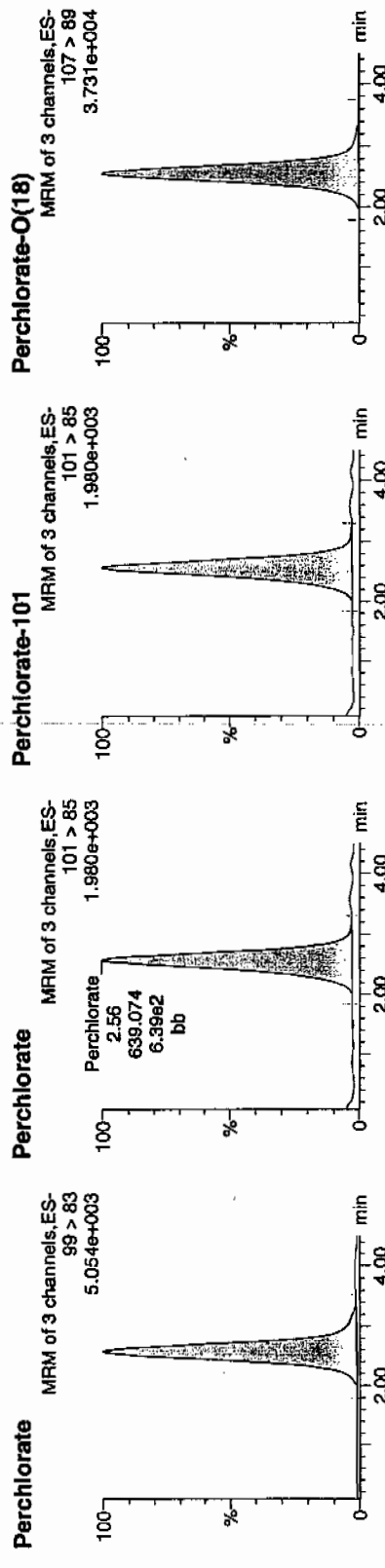
Time: 21:11:24

ID: 248247008

Vial: 1:7,F

03-M-10

102001959024 | 5000 | 1 |



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/ml	%Rec	%Dev	SN	Ion Ratio
248247008	Perchlorate	99 > 83	2.56	1721.797	1721.797	bb			0.0606			805.764	2.69
248247008	Perchlorate-101	101 > 85	2.56	639.074	639.074	bb			0.0704			153.207	
248247008	Perchlorate-O(18)	107 > 89	2.56	12336.636	12336.636	bb			0.5816	116.32	16.32	3466.1...	

$$\frac{1721.797}{639.074} = 2.6942$$

3/20/10

STANDARDS DATA

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-2138-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 17-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

Parmname Perchlorate

Coefficient of Determination:

Calibration Curve: 30166.58

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-2138-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 17-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: 9997.566

Response Type: External Standard

Curve Type: RF

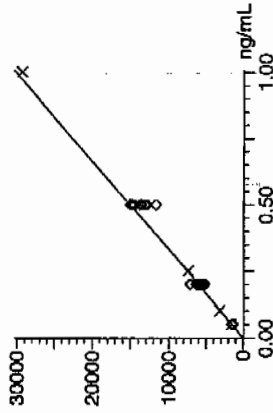
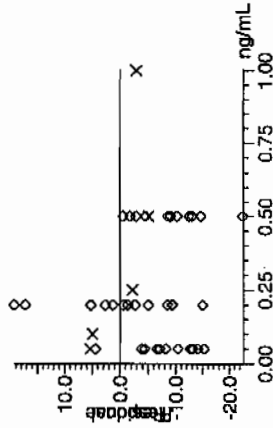
Pa Quantify Calibration Report MassLynx 4.0 SP4
 9 The GEL Group, LLC Analyst: Charlers W. Wilson

10 Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

11 Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
 12 Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

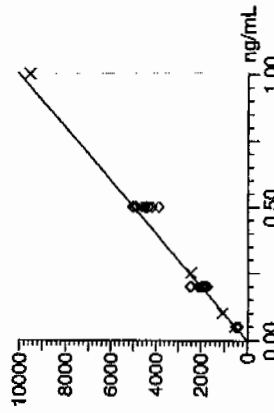
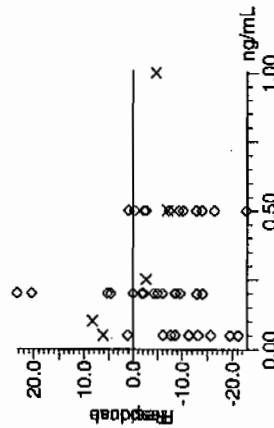
13 Method: C:\MassLynx\Perchlorate.PRO\MethDB\per031710a.mdb 18 Mar 2010 06:41:55
 14 Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per031710a.cdb 18 Mar 2010 06:42:10

Compound name: Perchlorate ✓
 Response Factor: 30166.6
 RRF SD: 1452.67, % Relative SD: 4.81549
 Response type: External Std, Area
 Curve type: RF ✓



303-2-10

Compound name: Perchlorate-101 ✓
 Response Factor: 9997.56
 RRF SD: 682.129, % Relative SD: 6.82295
 Response type: External Std, Area
 Curve type: RF ✓



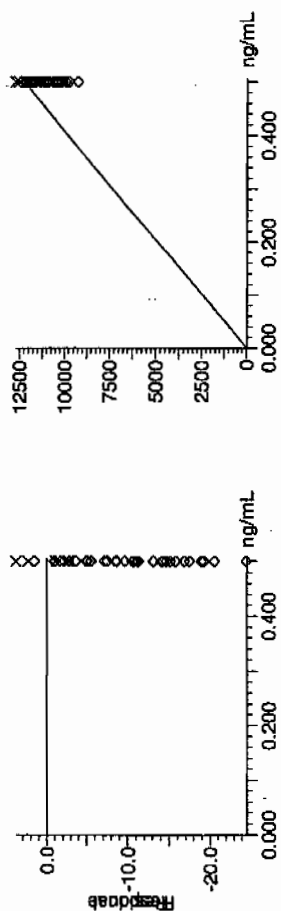
not
3/9/10

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

105 Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

0 Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
 1177 Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Compound name: Perchlorate-O(18) ✓
 Response Factor: 24465.9 ✓
 RRF SD: 711.792, % Relative SD: 2.90933 ✓
 Response type: External Std, Area
 Curve type: RF ✓



Perchlorate Initial Calibration

GEL Job No.(SDG): 10-2138-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS **Date Analyzed:** 18-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: 28413.12

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-2138-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 18-MAR-10

HPLC Column: Phenomenex Ion Pac AG-162 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: 9079.7

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\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time

Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per031810a.mdb 19 Mar 2010 06:40:51

Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per031810a.cdb 19 Mar 2010 06:42:20

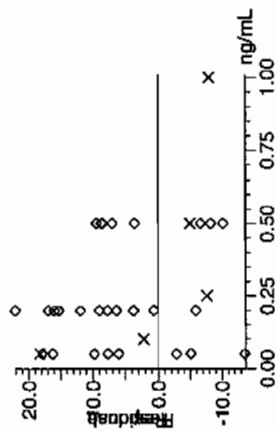
Compound name: Perchlorate

Response Factor: 28413.1

RRF SD: 3130.27, % Relative SD: 11.017

Response type: External Std, Area

Curve type: RF



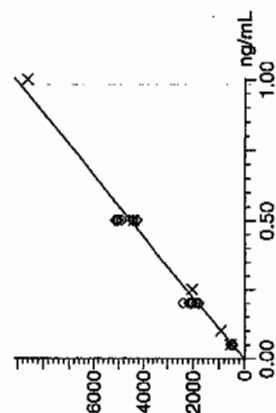
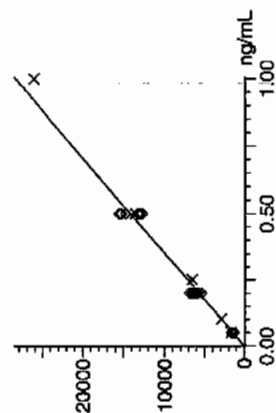
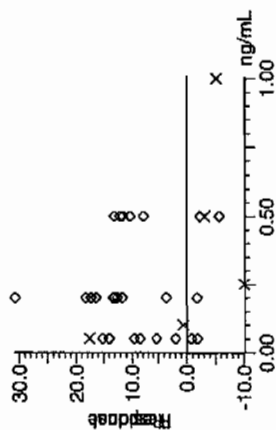
Compound name: Perchlorate-101

Response Factor: 9079.7

RRF SD: 961.652, % Relative SD: 10.5912

Response type: External Std, Area

Curve type: RF



30314-10

not
3/20/10

Quantify Calibration Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

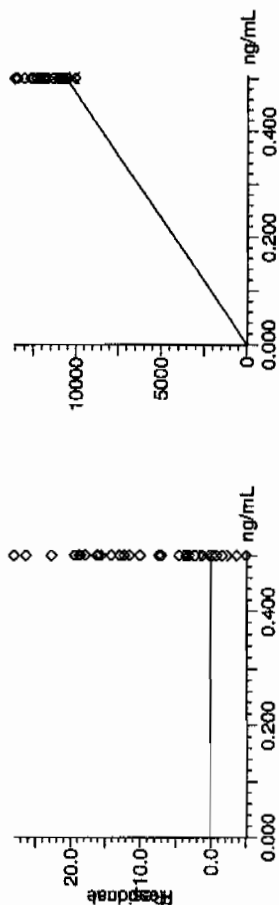
Compound name: Perchlorate-O(18)

Response Factor: 21212.5

RRF SD: 738.389, % Relative SD: 3.48092

Response type: External Std, Area

Curve type: RF



Form 3

Perchlorate Initial Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2138-1

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.49	98.16	17-MAR-10 13:46	per0317009a
Perchlorate Isotope Ratio		3.03		17-MAR-10 13:46	per0317009a
Perchlorate-101	.5	.49	97.84	17-MAR-10 13:46	per0317009a
Perchlorate	.5	.46	91.79	18-MAR-10 16:22	per0318009a
Perchlorate Isotope Ratio		3.05		18-MAR-10 16:22	per0318009a
Perchlorate-101	.5	.47	94.29	18-MAR-10 16:22	per0318009a

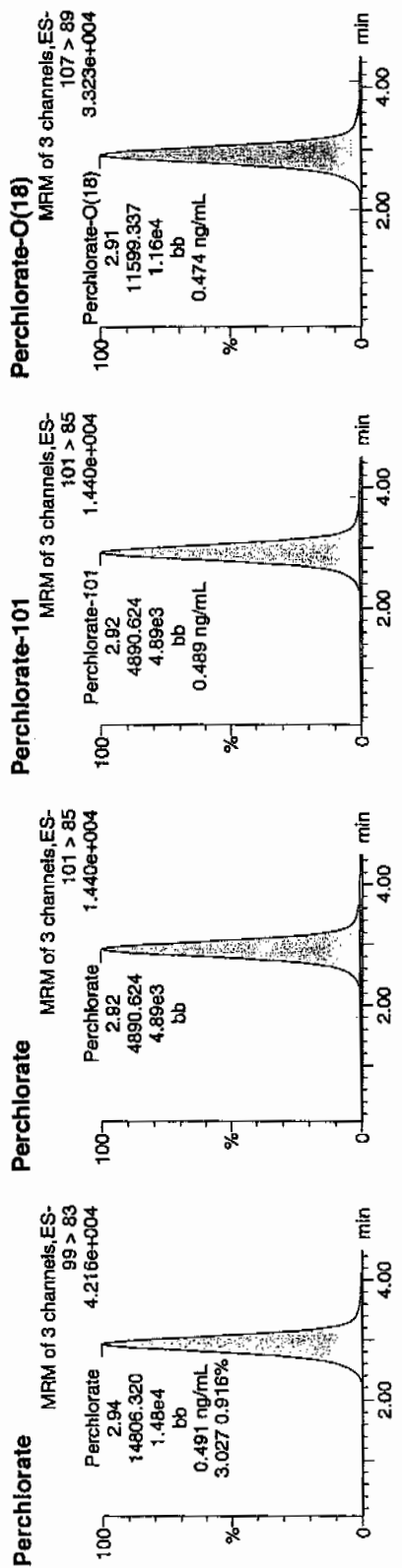
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317009a
Date: 17-Mar-2010
Time: 13:46:56
ID: WCL100309-06ICV
Vial: 1:2,A

Pure
03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	pg/mL	%Rec	%Dev	IS/N	Ratio
WCL100309-06ICV	Perchlorate	99 > 83	2.94	14806.320	14806.320	bb			0.4908	98.16	-1.84	874.258	3.03
WCL100309-06ICV	Perchlorate-101	101 > 85	2.92	4890.624	4890.624	bb			0.4892	97.84	-2.16	367.271	
WCL100309-06ICV	Perchlorate-O(18)	107 > 89	2.91	11599.337	11599.337	bb			0.4741	94.82	-5.18	1729.0...	

$$\frac{14806.320}{30166.6} = 0.4908$$

487
3/18/10

Quantify Sample Report MassLynx 4.0 SP4

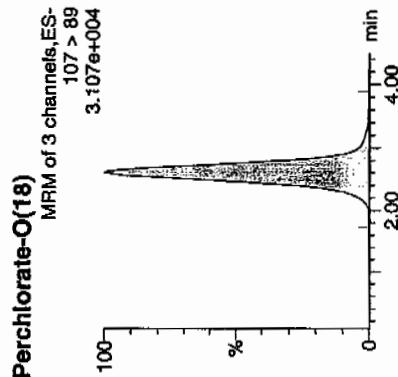
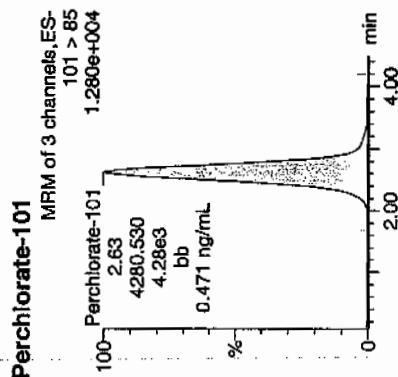
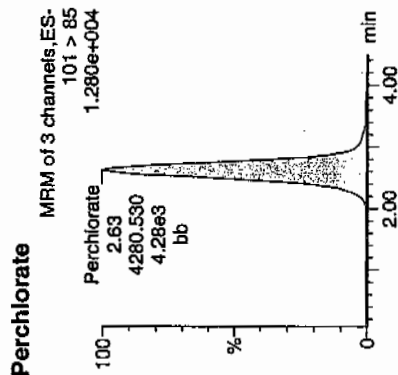
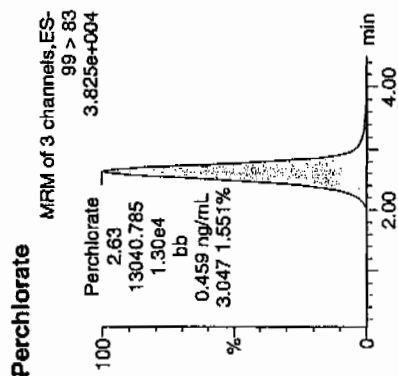
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318009a
Date: 18-Mar-2010
Time: 16:22:53
ID: WCL100318-06ICV
Vial: 1:2,A

Per
03-14-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06ICV	Perchlorate	99 > 83	2.63	13040.785	13040.785	bb			0.4590	91.79	-8.21	1141.4...	3.05
WCL100318-06ICV	Perchlorate-101	101 > 85	2.63	4280.530	4280.530	bb			0.4714	94.29	-5.71	797.830	
WCL100318-06ICV	Perchlorate-O(18)	107 > 89	2.61	10520.682	10520.682	bb			0.4960	99.19	-0.81	757.902	

$\frac{13040.785}{28413.1} = 0.4590$

1477
3/19/10

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2138-1

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.5	99.48	17-MAR-10 15:24	per0317022a
Perchlorate Isotope Ratio		2.98		17-MAR-10 15:24	per0317022a
Perchlorate-101	.5	.5	100.88	17-MAR-10 15:24	per0317022a
Perchlorate	.5	.49	97.11	17-MAR-10 17:03	per0317035a
Perchlorate Isotope Ratio		2.94		17-MAR-10 17:03	per0317035a
Perchlorate-101	.5	.5	99.67	17-MAR-10 17:03	per0317035a
Perchlorate	.5	.43	85.3	17-MAR-10 18:41	per0317048a
Perchlorate Isotope Ratio		2.99		17-MAR-10 18:41	per0317048a
Perchlorate-101	.5	.43	86	17-MAR-10 18:41	per0317048a
Perchlorate	.5	.45	90.94	17-MAR-10 20:12	per0317060a
Perchlorate Isotope Ratio		3.15		17-MAR-10 20:12	per0317060a
Perchlorate-101	.5	.44	87.13	17-MAR-10 20:12	per0317060a
Perchlorate	.5	.45	89.72	17-MAR-10 21:35	per0317071a

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2138-1

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate Isotope Ratio		3.02		17-MAR-10 21:35	per0317071a
Perchlorate-101	.5	.45	89.75	17-MAR-10 21:35	per0317071a
Perchlorate	.5	.48	95.44	18-MAR-10 00:53	per0317097a
Perchlorate Isotope Ratio		2.96		18-MAR-10 00:53	per0317097a
Perchlorate-101	.5	.49	97.35	18-MAR-10 00:53	per0317097a
Perchlorate	.5	.44	87.51	18-MAR-10 02:33	per0317110a
Perchlorate Isotope Ratio		2.91		18-MAR-10 02:33	per0317110a
Perchlorate-101	.5	.45	90.62	18-MAR-10 02:33	per0317110a
Perchlorate	.5	.46	91.44	18-MAR-10 04:11	per0317123a
Perchlorate Isotope Ratio		2.98		18-MAR-10 04:11	per0317123a
Perchlorate-101	.5	.46	92.58	18-MAR-10 04:11	per0317123a
Perchlorate	.5	.45	89.82	18-MAR-10 18:01	per0318022a
Perchlorate Isotope Ratio		2.88		18-MAR-10 18:01	per0318022a

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2138-1

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate-101	.5	.49	97.72	18-MAR-10 18:01	per0318022a
Perchlorate	.5	.47	93.41	18-MAR-10 19:40	per0318035a
Perchlorate Isotope Ratio		3.1		18-MAR-10 19:40	per0318035a
Perchlorate-101	.5	.47	94.42	18-MAR-10 19:40	per0318035a
Perchlorate	.5	.52	103.6	18-MAR-10 21:18	per0318048a
Perchlorate Isotope Ratio		2.94		18-MAR-10 21:18	per0318048a
Perchlorate-101	.5	.55	110.37	18-MAR-10 21:18	per0318048a

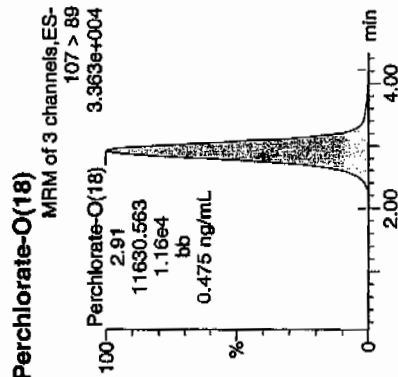
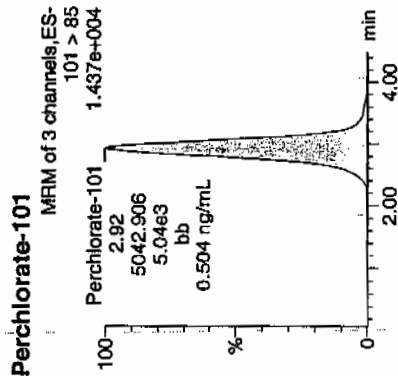
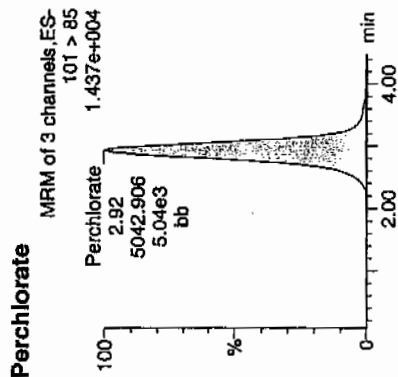
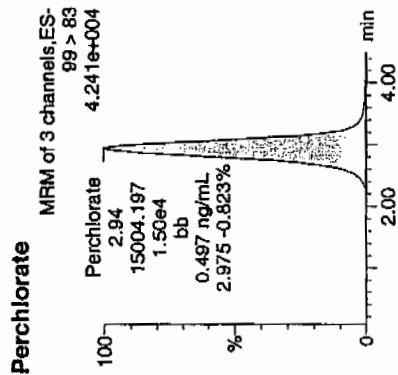
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

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Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317022a
Date: 17-Mar-2010
Time: 15:24:59
ID: WCL100309-06CCV
Vial: 1:2,A

Per
and
03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100309-06CCV	Perchlorate	99 > 83	2.94	15004.197	15004.197	bb			0.4974	99.48	-0.52	18691...	2.98
WCL100309-06CCV	Perchlorate-101	101 > 85	2.92	5042.906 /	5042.906	bb			0.5044	100.88	0.88	3910.1...	
WCL100309-06CCV	Perchlorate-O(18)	107 > 89	2.91	11630.563	11630.563	bb			0.4754	95.08	-4.92	2192.8...	

not
3/19/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

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 Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

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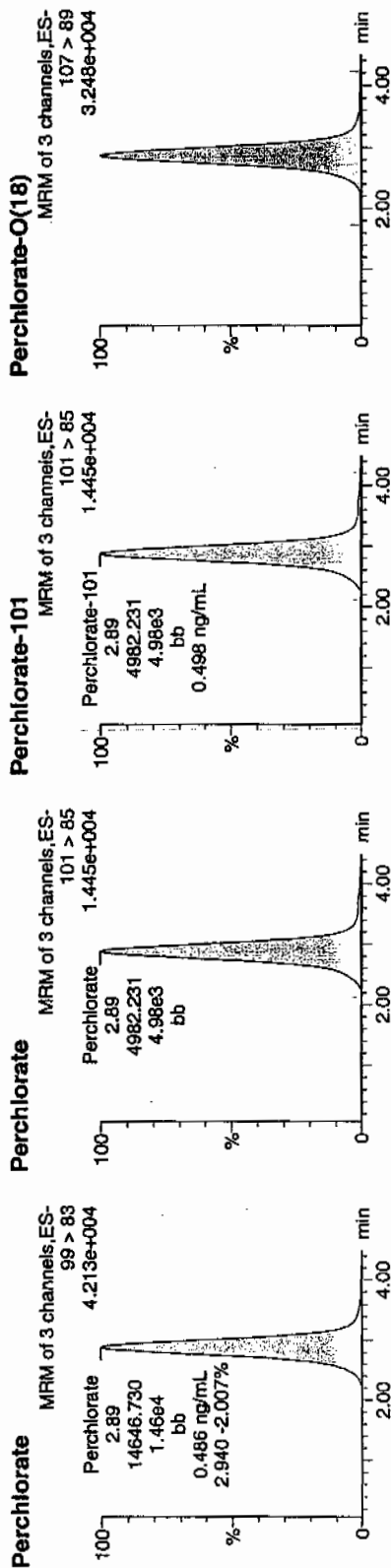
Date: 17-Mar-2010

Time: 17:03:19

ID: WCL100309-06CCV

Vial: 1:2,A

Pure
 and
 03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion.Ratio
WCL100309-06CCV	Perchlorate	99 > 83	2.89	14646.730	14646.730	bb			0.4855	97.11	-2.89	1013.0...	2.94
WCL100309-06CCV	Perchlorate-101	101 > 85	2.89	4982.231	4982.231	bb			0.4983	99.67	-0.33	691.588	
WCL100309-06CCV	Perchlorate-O(18)	107 > 89	2.87	11312.128	11312.128	bb			0.4624	92.47	-7.53	2298.4...	

3/18/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
 Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

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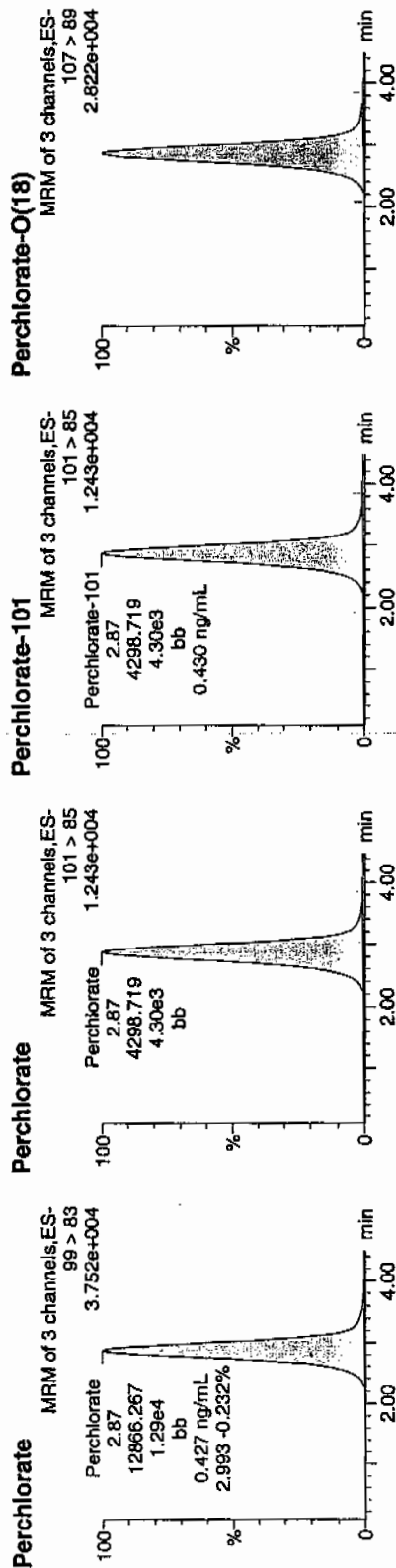
Date: 17-Mar-2010

Time: 18:41:31

ID: WCL100309-06CCV

Vial: 1:2,A

QWS
03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100309-06CCV	Perchlorate	99 > 83	2.87	12866.267	12866.267	bb			0.4265	85.30	-14.70	1582.9...	2.99
WCL100309-06CCV	Perchlorate-101	101 > 85	2.87	4298.719	4298.719	bb			0.4300	86.00	-14.00	2119.9...	
WCL100309-06CCV	Perchlorate-O(18)	107 > 89	2.86	9874.795	9874.795	bb			0.4036	80.72	-19.28	3979.0...	

WAT
3/19/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

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Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317060a

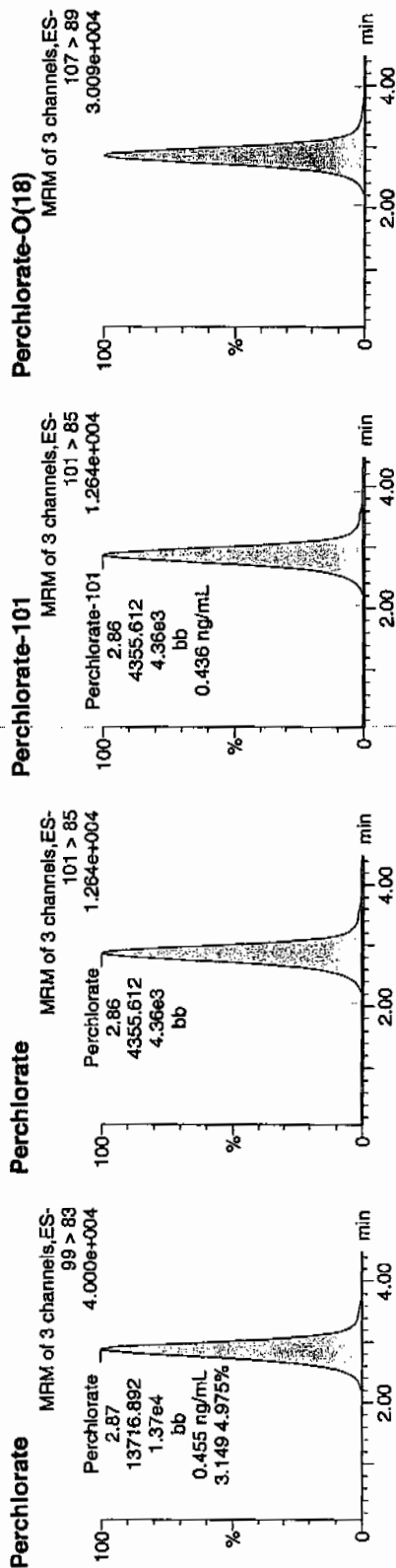
Date: 17-Mar-2010

Time: 20:12:22

ID: WCL100309-06CCV

Vial: 1:2,A

Per
03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100309-06CCV	Perchlorate	99 > 83	2.87	13716.892	13716.892	bb			0.4547	90.94	-9.06	1028.1...	3.15
WCL100309-06CCV	Perchlorate-101	101 > 85	2.86	4355.612	4355.612	bb			0.4357	87.13	-12.87	1252.0...	
WCL100309-06CCV	Perchlorate-O(18)	107 > 89	2.85	10377.737	10377.737	bb			0.4242	84.83	-15.17	6302.5...	

MyT
3/18/10

Quantify Sample Report MassLynx 4.0 SP4

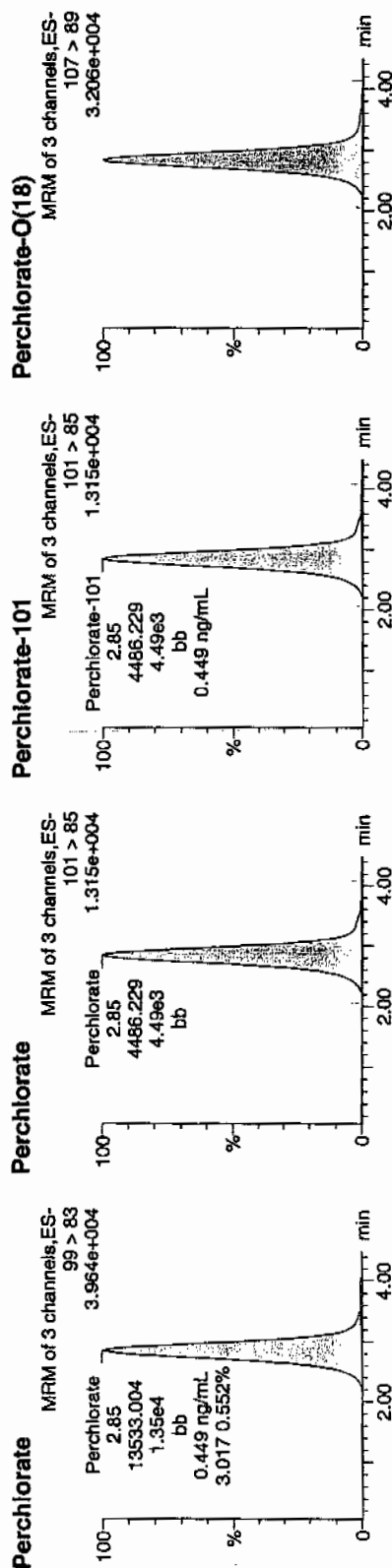
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317071a
Date: 17-Mar-2010
Time: 21:35:43
ID: WCL100309-06CCV
Vial: 1:2,A

Pass
03-18-10



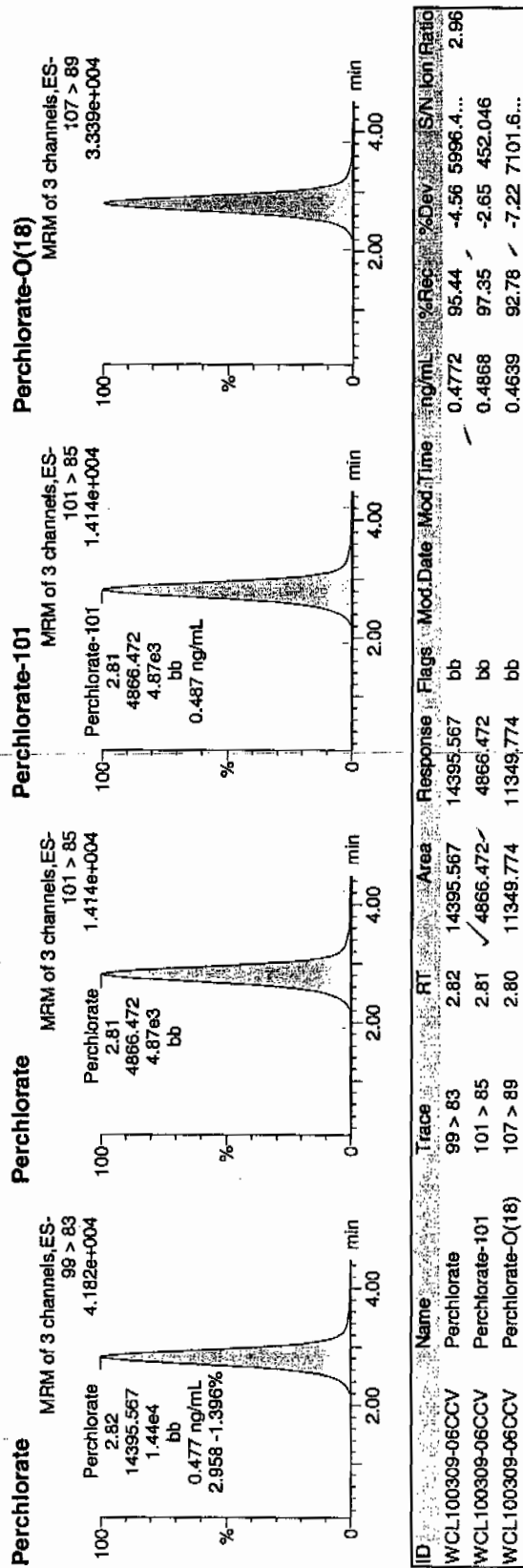
ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100309-06CCV	Perchlorate	99 > 83	2.85	13533.004	13533.004	bb			0.4486	89.72	-10.28	903.937	3.02
WCL100309-06CCV	Perchlorate-101	101 > 85	2.85	4486.229	4486.229	bb			0.4487	89.75	-10.25	4052.6...	
WCL100309-06CCV	Perchlorate-O(18)	107 > 89	2.84	10904.428	10904.428	bb			0.4457	89.14	-10.86	1708.8...	

3/18/10

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson
Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time
Name: per0317097a
Date: 18-Mar-2010
Time: 00:53:21
ID: WCL100309-06CCV
Vial: 1:2,A

Pure
03-18-10



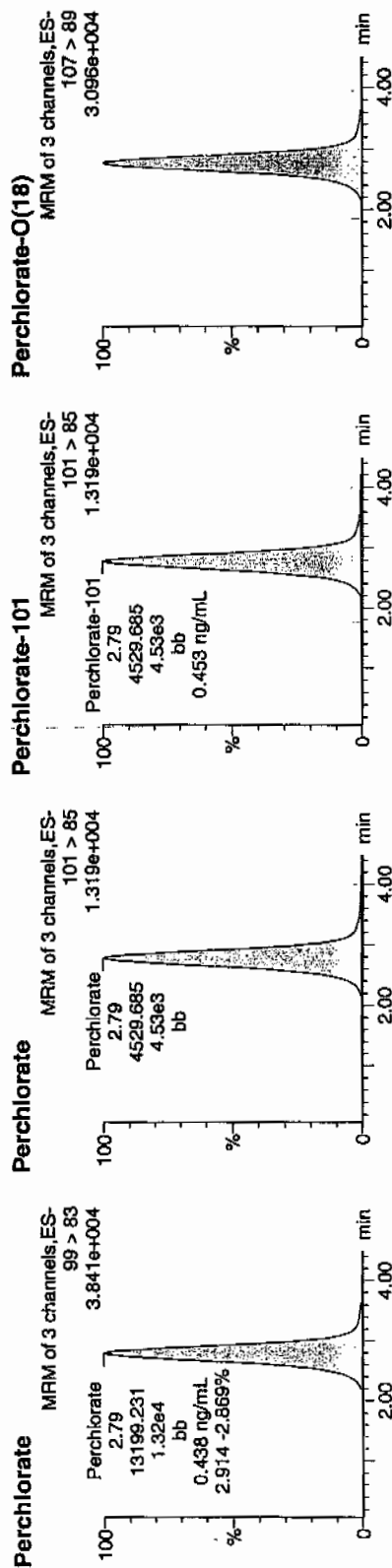
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317110a
Date: 18-Mar-2010
Time: 02:33:28
ID: WCL100309-06CCV
Vial: 1:2,A

Perchlorate
03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Day	S/N	Ion Ratio
WCL100309-06CCV	Perchlorate	99 > 83	2.79	13199.231	13199.231	bb			0.4375	87.51	-12.49	2241.7...	2.91
WCL100309-06CCV	Perchlorate-101	101 > 85	2.79	4529.685	4529.685	bb			0.4531	90.82	-9.38	2518.5...	
WCL100309-06CCV	Perchlorate-O(18)	107 > 89	2.77	10472.685	10472.685	bb			0.4281	85.61	-14.39	2683.5...	

μg/L
3/18/10

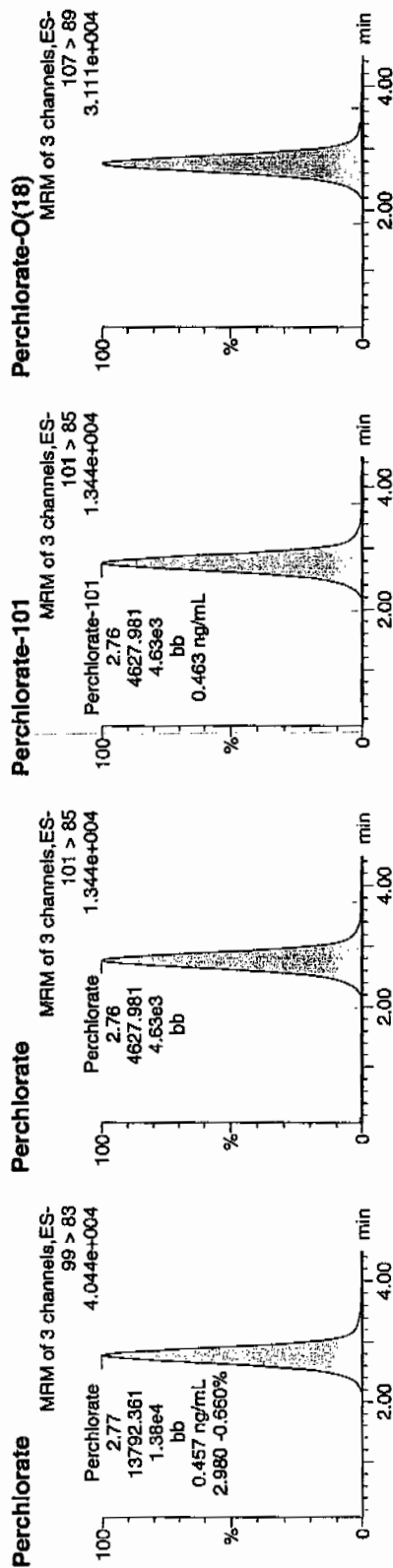
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317123a
Date: 18-Mar-2010
Time: 04:11:48
ID: WCL100309-06CCV
Vial: 1:2,A

Per
03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100309-06CCV	Perchlorate	99 > 83	2.77	13792.361	13792.361	bb			0.4572	91.44	-8.56	2146.9...	2.98
WCL100309-06CCV	Perchlorate-101	101 > 85	2.76	4627.981	4627.981	bb			0.4629	92.58	-7.42	969.911	
WCL100309-06CCV	Perchlorate-O(18)	107 > 89	2.76	10507.159	10507.159	bb			0.4295	85.89	-14.11	2806.1...	

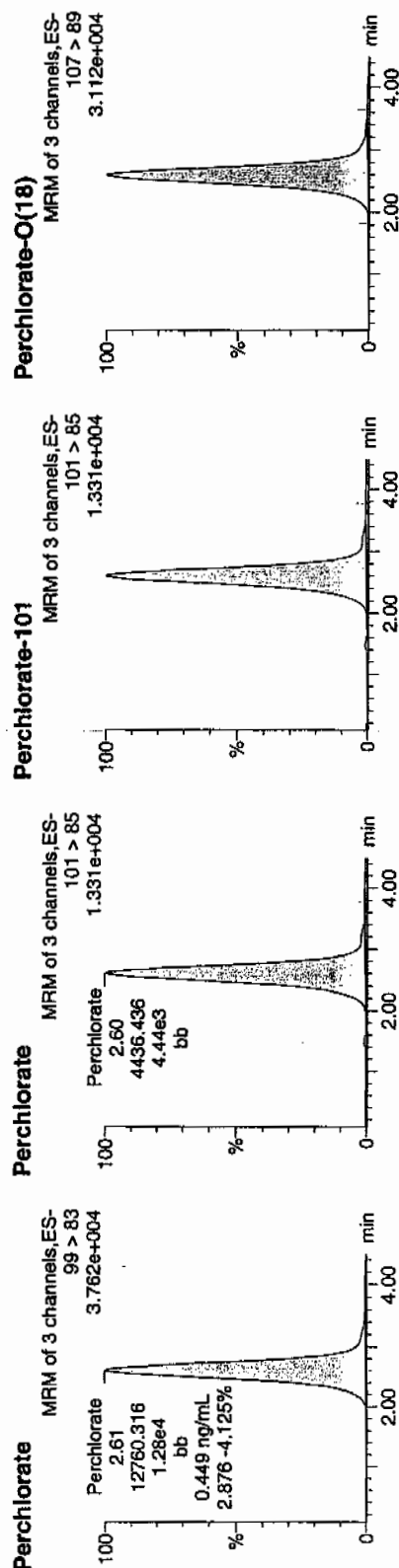
not
3/18/10

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

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318022a
Date: 18-Mar-2010
Time: 18:01:32
ID: WCL100318-06CCV
Vial: 1:2,A



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	2.61	12760.316	12760.316	bb			0.4491	89.82	-10.18	4991.8...	2.88
WCL100318-06CCV	Perchlorate-101	101 > 85	2.60	4436.436	4436.436	bb			0.4886	97.72	-2.28	1099.8...	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	2.59	10436.040	10436.040	bb			0.4920	98.40	-1.60	1243.0...	

$$\frac{12760.316}{4436.436} = 2.8763$$

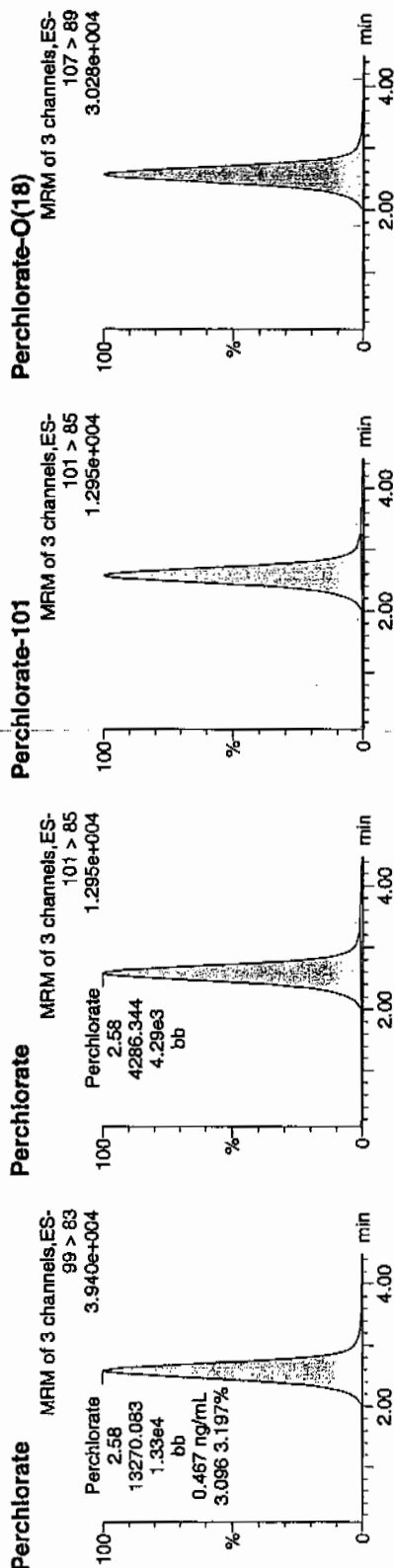
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318035a
Date: 18-Mar-2010
Time: 19:40:15
ID: WCL100318-06CCV
Vial: 1:2,A

Per0318035a
03-19-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	2.58	13270.083	13270.083	bb			0.4670	93.41	-6.59	1092.7...	3.10
WCL100318-06CCV	Perchlorate-101	101 > 85	2.58	4286.344	4286.344	bb			0.4721	94.42	-5.58	594.417	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	2.56	10071.807	10071.807	bb			0.4748	94.96	-5.04	5666.7...	

not
3/20/10

Quantify Sample Report MassLynx 4.0 SP4

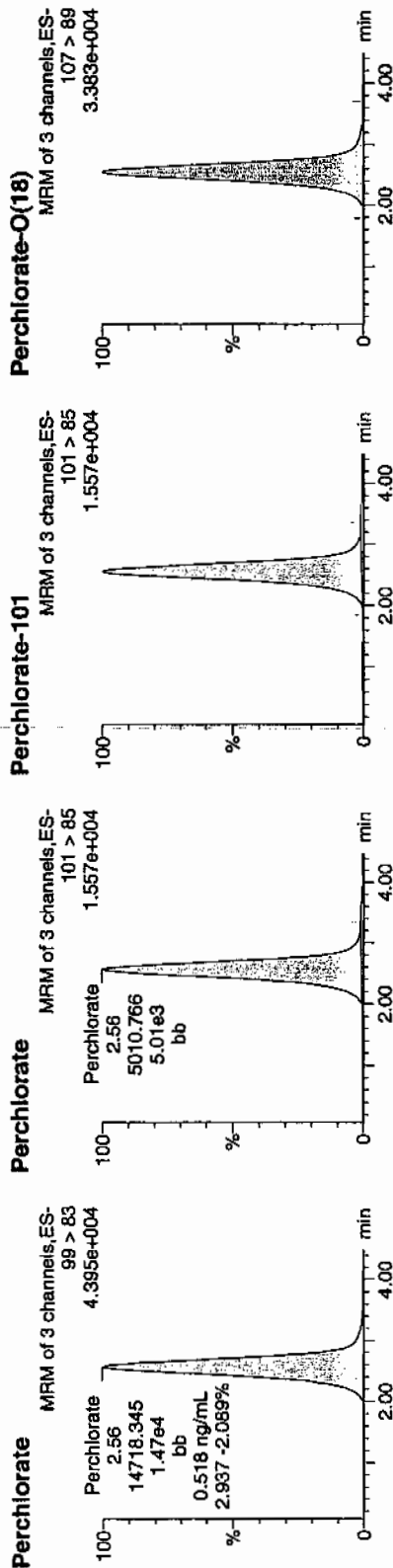
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318048a
Date: 18-Mar-2010
Time: 21:18:57
ID: WCL100318-06CCV
Vial: 1:2,A

Perchlorate
03-14-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	IonRatio
WCL100318-06CCV	Perchlorate	99 > 83	2.56	14718.345	14718.345	bb			0.5180	103.60	3.60	1990.5...	2.94
WCL100318-06CCV	Perchlorate-101	101 > 85	2.56	5010.766	5010.766	bb			0.5519	110.37	10.37	542.237	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	2.55	11348.905	11348.905	bb			0.5350	107.00	7.00	292.517	

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2138-1

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	104.44	17-MAR-10 14:02	per0317011a
Perchlorate Isotope Ratio		3.11		17-MAR-10 14:02	per0317011a
Perchlorate-101	.05	.05	101.19	17-MAR-10 14:02	per0317011a
Perchlorate	.05	.05	95.63	17-MAR-10 15:40	per0317024a
Perchlorate Isotope Ratio		3.07		17-MAR-10 15:40	per0317024a
Perchlorate-101	.05	.05	93.85	17-MAR-10 15:40	per0317024a
Perchlorate	.05	.05	91.8	17-MAR-10 17:18	per0317037a
Perchlorate Isotope Ratio		3.19		17-MAR-10 17:18	per0317037a
Perchlorate-101	.05	.04	86.81	17-MAR-10 17:18	per0317037a
Perchlorate	.05	.04	84.73	17-MAR-10 18:56	per0317050a
Perchlorate Isotope Ratio		3.18		17-MAR-10 18:56	per0317050a

Form 3

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2138-1

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate-101	.05	.04	80.5	17-MAR-10 18:56	per0317050a
Perchlorate	.05	.04	89.56	17-MAR-10 20:27	per0317062a
Perchlorate Isotope Ratio		3.04		17-MAR-10 20:27	per0317062a
Perchlorate-101	.05	.04	88.78	17-MAR-10 20:27	per0317062a
Perchlorate	.05	.04	87.3	17-MAR-10 21:51	per0317073a
Perchlorate Isotope Ratio		3.03		17-MAR-10 21:51	per0317073a
Perchlorate-101	.05	.04	86.93	17-MAR-10 21:51	per0317073a
Perchlorate	.05	.05	96.16	18-MAR-10 01:08	per0317099a
Perchlorate Isotope Ratio		3.14		18-MAR-10 01:08	per0317099a
Perchlorate-101	.05	.05	92.31	18-MAR-10 01:08	per0317099a
Perchlorate	.05	.04	85.91	18-MAR-10 02:48	per0317112a

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2138-1

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate Isotope Ratio		3.29		18-MAR-10 02:48	per0317112a
Perchlorate-101	.05	.04	78.9	18-MAR-10 02:48	per0317112a
Perchlorate	.05	.05	92.89	18-MAR-10 04:27	per0317125a
Perchlorate Isotope Ratio		3.32		18-MAR-10 04:27	per0317125a
Perchlorate-101	.05	.04	84.35	18-MAR-10 04:27	per0317125a
Perchlorate	.05	.05	94.91	18-MAR-10 16:38	per0318011a
Perchlorate Isotope Ratio		2.91		18-MAR-10 16:38	per0318011a
Perchlorate-101	.05	.05	101.99	18-MAR-10 16:38	per0318011a
Perchlorate	.05	.04	86.41	18-MAR-10 18:16	per0318024a
Perchlorate Isotope Ratio		2.75		18-MAR-10 18:16	per0318024a
Perchlorate-101	.05	.05	98.17	18-MAR-10 18:16	per0318024a

Form 3

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2138-1

Lab Code: GEL

Reporting Units: ug/kg

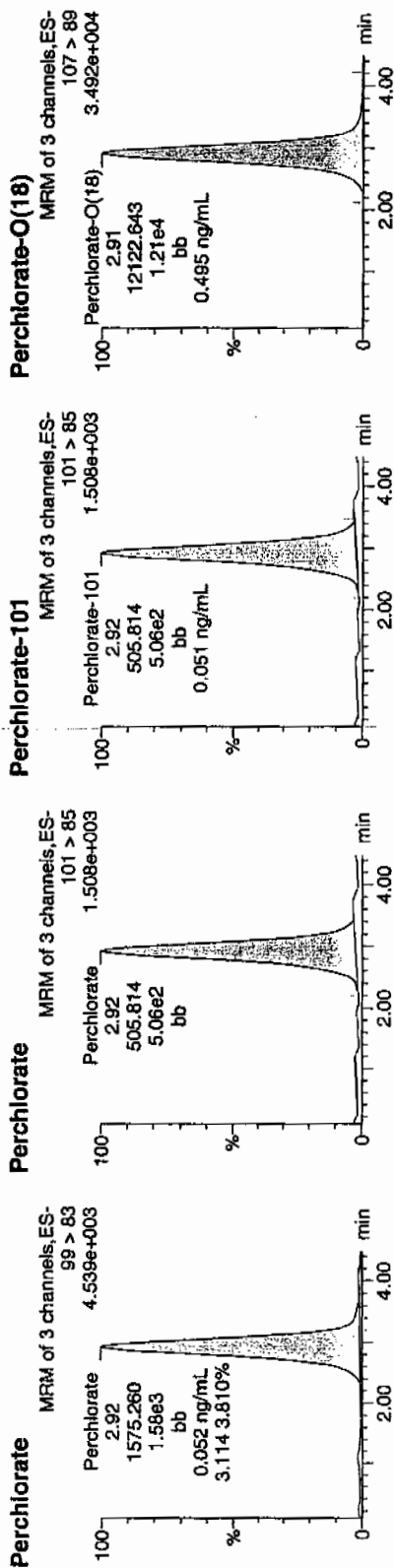
Perchlorate	.05	.05	97.21	18-MAR-10 19:55	per0318037a
Perchlorate Isotope Ratio		2.89		18-MAR-10 19:55	per0318037a
Perchlorate-101	.05	.05	105.34	18-MAR-10 19:55	per0318037a
Perchlorate	.05	.06	117.92	18-MAR-10 21:34	per0318050a
Perchlorate Isotope Ratio		3.4		18-MAR-10 21:34	per0318050a
Perchlorate-101	.05	.05	108.54	18-MAR-10 21:34	per0318050a

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

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317011a
Date: 17-Mar-2010
Time: 14:02:01
ID: WCL100309-07CRI
Vial: 1:2,B



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	pp/mL	%Rec	%Dev	S/N	Int.Ratio
WCL100309-07CRI	Perchlorate	99 > 83	2.92	1575.260	1575.260	bb			0.0522	104.44	4.44	674.497	3.11
WCL100309-07CRI	Perchlorate-101	101 > 85	2.92	505.814	505.814	bb			0.0506	101.19	1.19	125.982	
WCL100309-07CRI	Perchlorate-O(18)	107 > 89	2.91	12122.643	12122.643	bb			0.4955	99.10	-0.90	2232.7...	

$$\frac{1575.260}{30166.6} = 0.0522$$

447
3/18/10

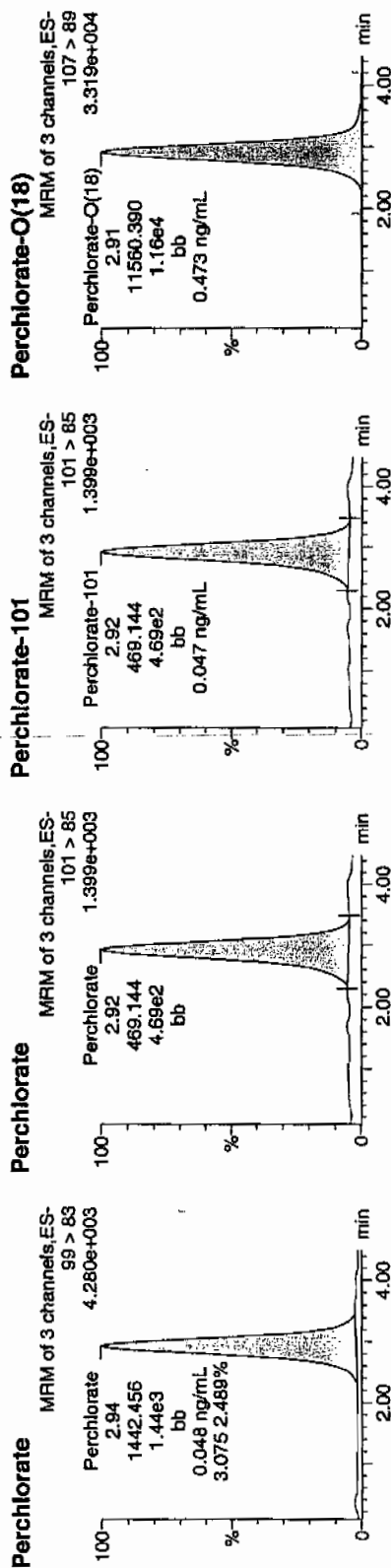
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317024a
Date: 17-Mar-2010
Time: 15:40:03
ID: WCL100309-07CRI
Vial: 1:2,B

Pure
WCL
03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100309-07CRI	Perchlorate	99 > 83	2.94	1442.456	1442.456	bb			0.0478	95.63	-4.37	418.773	3.07
WCL100309-07CRI	Perchlorate-101	101 > 85	2.92	469.144	469.144	bb			0.0469	93.85	-6.15	48.974	
WCL100309-07CRI	Perchlorate-O(18)	107 > 89	2.91	11560.390	11560.390	bb			0.4725	94.50	-5.50	2604.3...	

WCL
3/18/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317037a

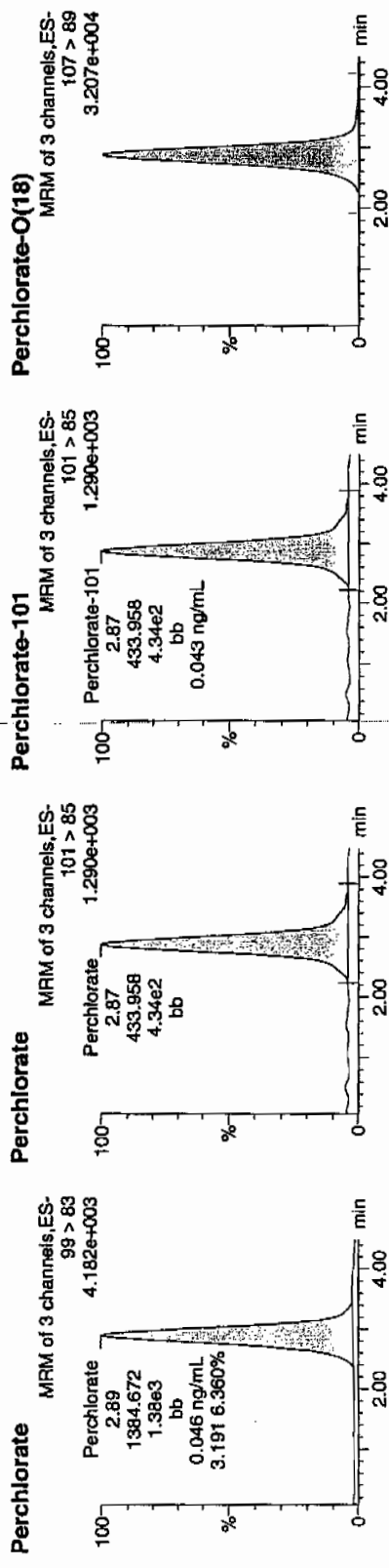
Date: 17-Mar-2010

Time: 17:18:24

ID: WCL100309-07CRI

Vial: 1:2,B

*Per
WCL
031710*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN/Ion Ratio
WCL100309-07CRI	Perchlorate	99 > 83	2.89	1384.672	1384.672	bb			0.0459	91.80	-8.20	471.637 3.19
WCL100309-07CRI	Perchlorate-101	101 > 85	2.87	✓ 433.958	433.958	bb			0.0434	86.81	-13.19	58.874
WCL100309-07CRI	Perchlorate-O(18)	107 > 89	2.87	11047.777	11047.777	bb			0.4516	90.31	-9.69	2941.1...

*WCL
3/18/10*

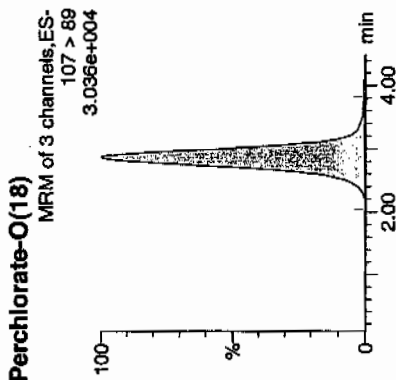
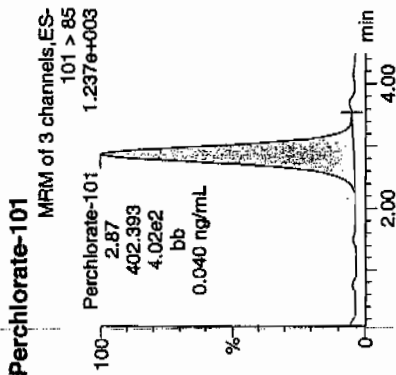
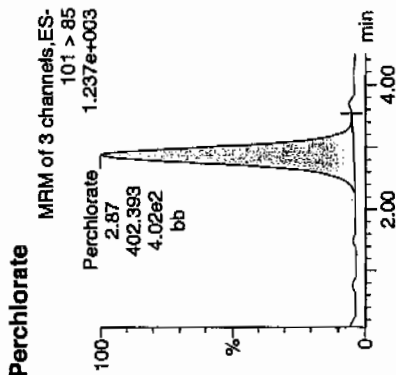
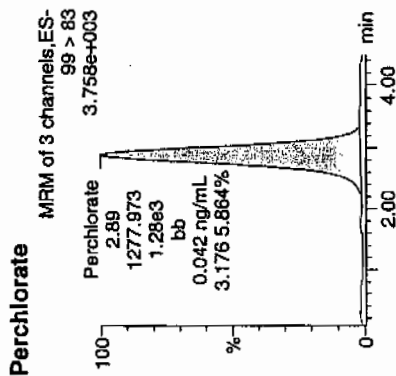
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317050a
Date: 17-Mar-2010
Time: 18:56:50
ID: WCL100309-07CRI
Vial: 1:2,B

Pure
03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion	Ratio
WCL100309-07CRI	Perchlorate	99 > 83	2.89	1277.973	1277.973	bb			0.0424	84.73	-15.27	450.404		3.18
WCL100309-07CRI	Perchlorate-101	101 > 85	2.87	402.393	402.393	bb			0.0402	80.50	-19.50	103.552		
WCL100309-07CRI	Perchlorate-O(18)	107 > 89	2.86	10435.741	10435.741	bb			0.4265	85.31	-14.69	2828.1...		

MAF
3/19/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317062a

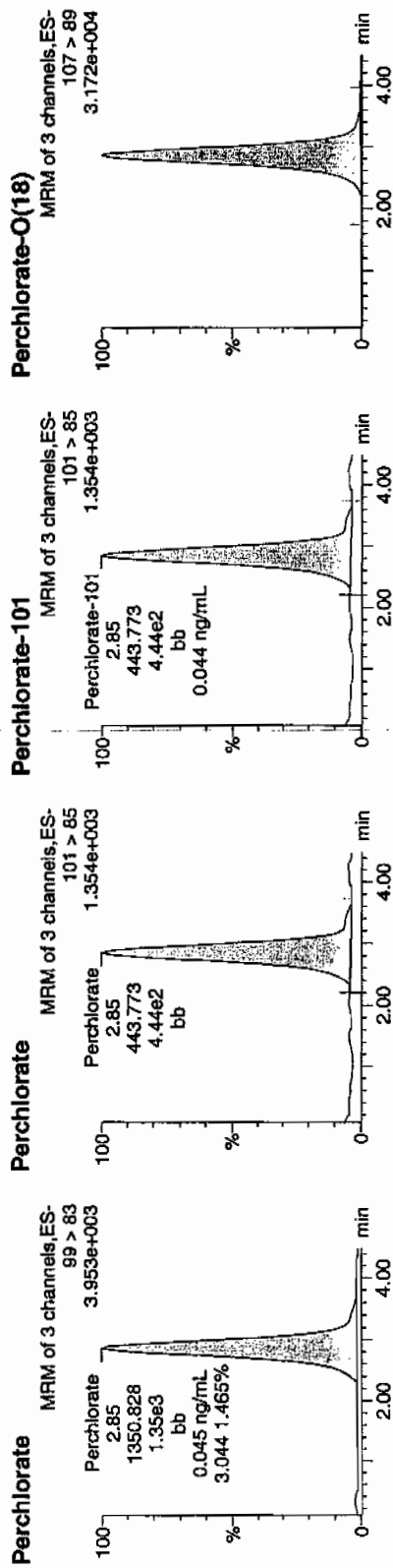
Date: 17-Mar-2010

Time: 20:27:41

ID: WCL100309-07CRI

Vial: 1:2,B

Per
03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100309-07CRI	Perchlorate	99 > 83	2.85	1350.828	1350.828	bb			0.0448	89.56	-10.44	210.610	3.04
WCL100309-07CRI	Perchlorate-101	101 > 85	2.85	443.773	443.773	bb			0.0444	88.78	-11.22	265.448	
WCL100309-07CRI	Perchlorate-O(18)	107 > 89	2.85	10841.560	10841.560	bb			0.4431	88.63	-11.37	2115.4...	

107
3/16/10

Quantify Sample Report MassLynx 4.0 SP4

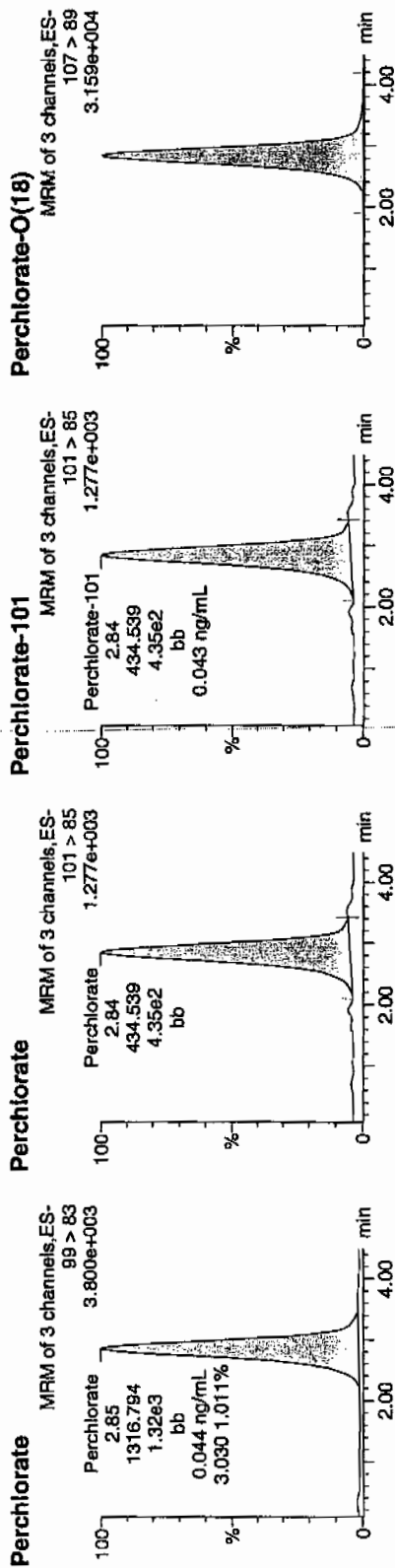
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
 Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317073a
 Date: 17-Mar-2010
 Time: 21:51:02
 ID: WCL100309-07CRI
 Vial: 1:2,B

Per 031810



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100309-07CRI	Perchlorate	99 > 83	2.85	1316.794	1316.794	bb			0.0437	87.30	-12.70	531.087	3.03
WCL100309-07CRI	Perchlorate-101	101 > 85	2.84	434.539	434.539	bb			0.0435	86.93	-13.07	487.901	
WCL100309-07CRI	Perchlorate-O(18)	107 > 89	2.84	10850.195	10850.195	bb			0.4435	88.70	-11.30	5066.6...	

WCL 9/19/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317099a

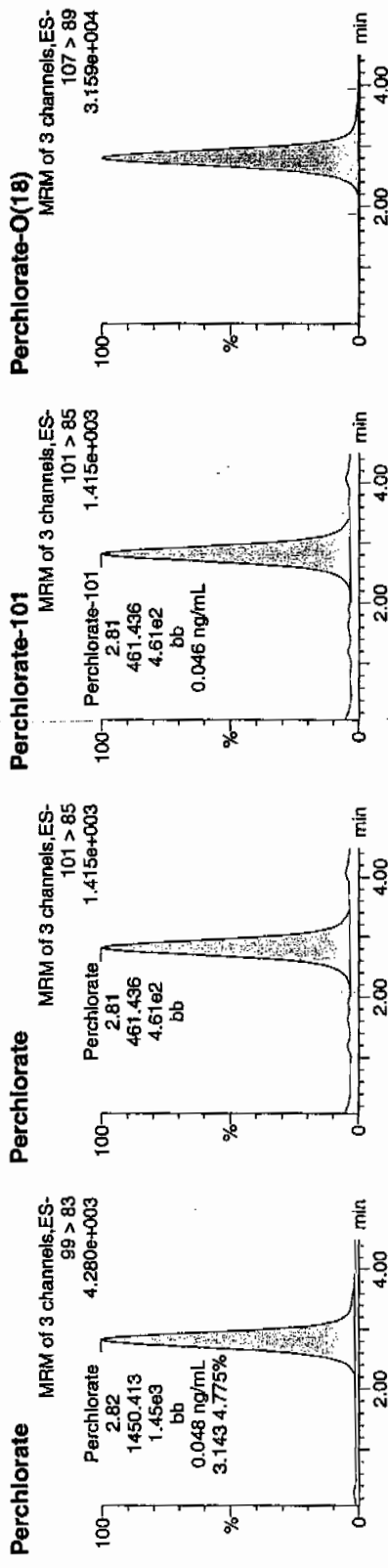
Date: 18-Mar-2010

Time: 01:08:40

ID: WCL100309-07CRI

Vial: 1:2,B

Per
and
03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100309-07CRI	Perchlorate	99 > 83	2.82	1450.413	1450.413	bb			0.0481	96.16	-3.84	1275.8...	3.14
WCL100309-07CRI	Perchlorate-101	101 > 85	2.81	461.436	461.436	bb			0.0462	92.31	-7.69	140.989	
WCL100309-07CRI	Perchlorate-O(18)	107 > 89	2.80	10874.311	10874.311	bb			0.4445	88.89	-11.11	337.408	

WATP
3/19/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
 Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317112a

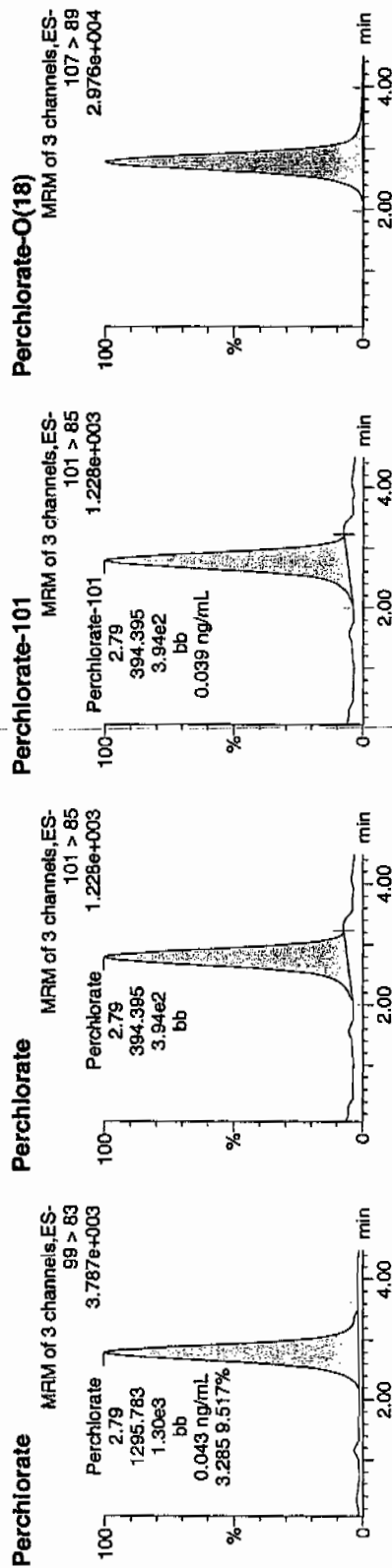
Date: 18-Mar-2010

Time: 02:48:45

ID: WCL100309-07CRI

Vial: 1:2,B

Perp
03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100309-07CRI	Perchlorate	99 > 83	2.79	1295.783	1295.783	bb			0.0430	85.91	-14.09	116.822	3.29
WCL100309-07CRI	Perchlorate-101	101 > 85	2.79	394.395	394.395	bb			0.0394	78.90	-21.10	124.980	
WCL100309-07CRI	Perchlorate-O(18)	107 > 89	2.77	10304.230	10304.230	bb			0.4212	84.23	-15.77	3068.9...	

3/18/10

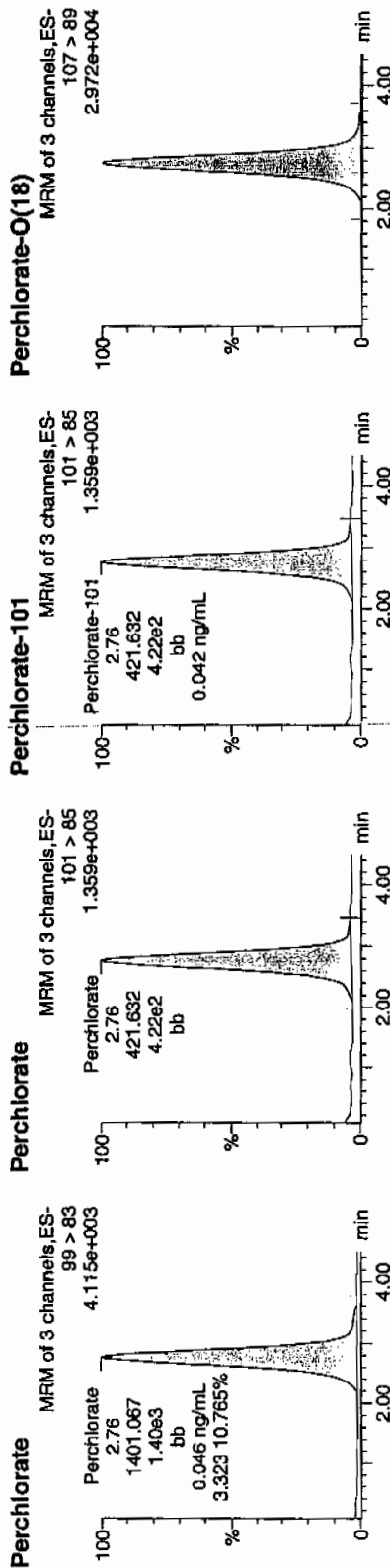
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317125a
Date: 18-Mar-2010
Time: 04:27:06
ID: WCL100309-07CRI
Vial: 1;2,B

Pure
03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SS/N	Ratio
WCL100309-07CRI	Perchlorate	99 > 83	2.76	1401.067	1401.067	bb			0.0464	92.89	-7.11	151.444	3.32
WCL100309-07CRI	Perchlorate-101	101 > 85	2.76	421.632	421.632	bb			0.0422	84.35	-15.65	107.499	
WCL100309-07CRI	Perchlorate-O(18)	107 > 89	2.75	10172.857	10172.857	bb			0.4158	83.16	-16.84	210.691	

2/19/10

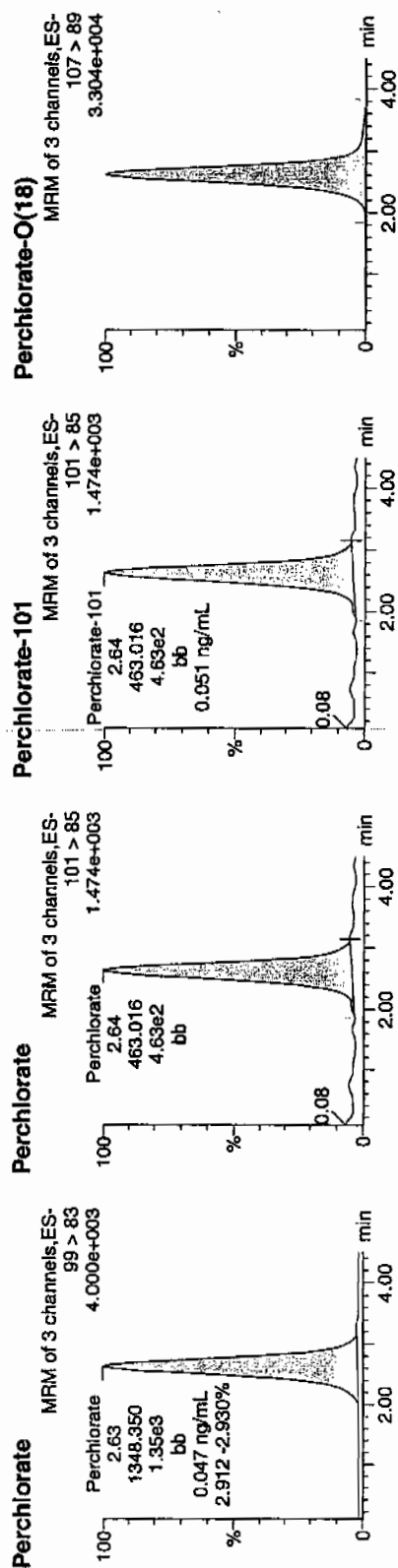
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318011a
Date: 18-Mar-2010
Time: 16:38:06
ID: WCL100318-07CRI
Vial: 1:2,B

Handwritten: 03-H-13



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	2.63	1348.350	1348.350	bb			0.0475	94.91	-5.09	381.122	2.91
WCL100318-07CRI	Perchlorate-101	101 > 85	2.64	463.016	463.016	bb			0.0510	101.99	1.99	170.309	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	2.61	10929.031	10929.031	bb			0.5152	103.04	3.04	2415.4...	

$$\frac{1348.350}{284/3.1} = 0.0475$$

Handwritten: 1/20/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318024a

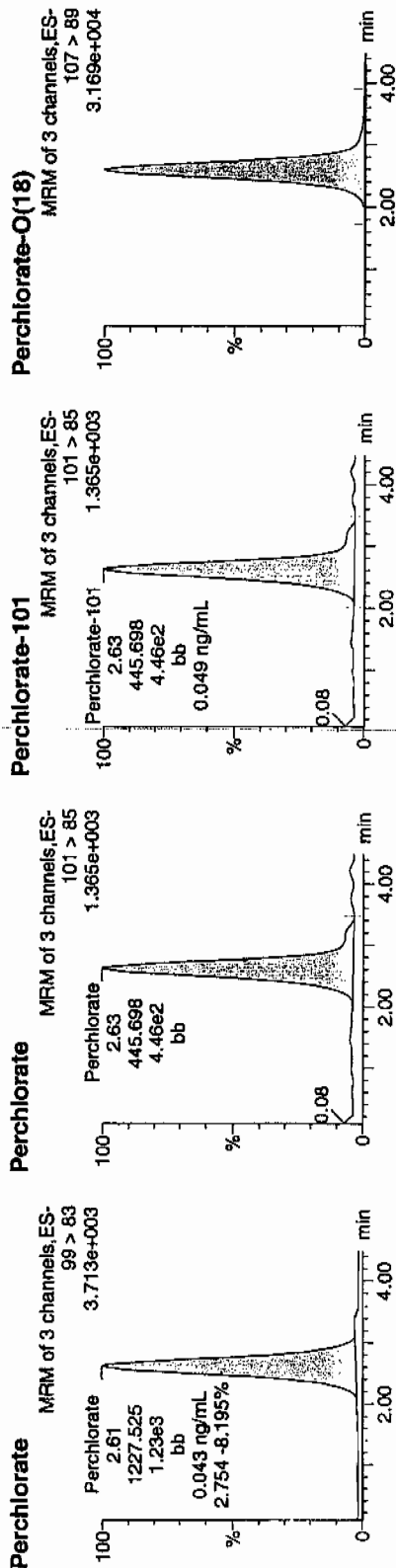
Date: 18-Mar-2010

Time: 18:16:52

ID: WCL100318-07CRI

Vial: 1:2,B

Per
03-N-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	2.61	1227.525	1227.525	bb			0.0432	86.41	-13.59	601.923	2.75
WCL100318-07CRI	Perchlorate-101	101 > 85	2.63	445.698	445.698	bb			0.0491	98.17	-1.83	114.270	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	2.59	10582.445	10582.445	bb			0.4989	99.78	-0.22	539.373	

per
3/20/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318037a

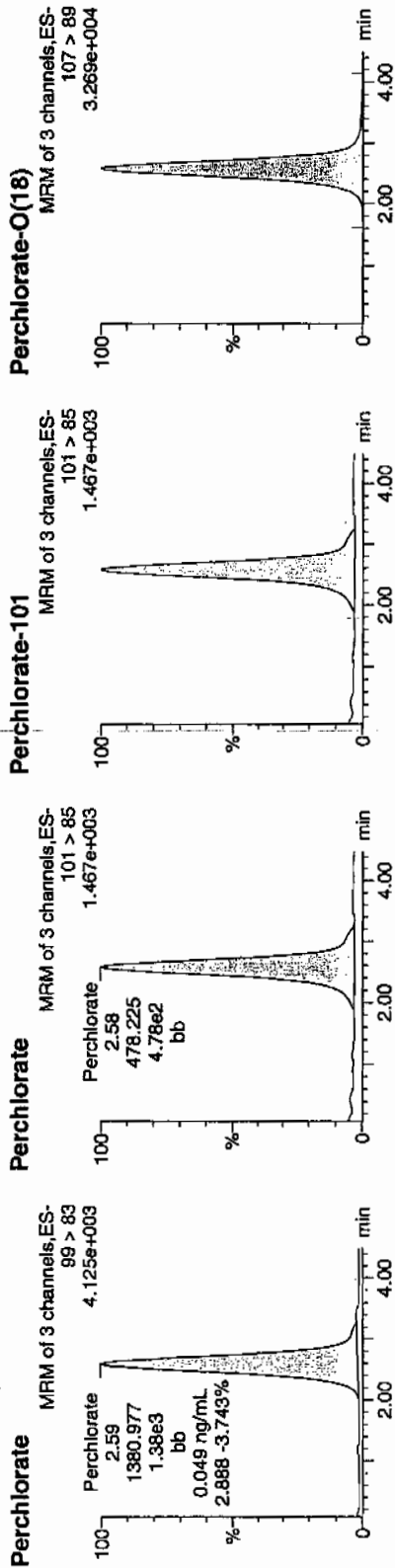
Date: 18-Mar-2010

Time: 19:55:20

ID: WCL100318-07CRI

Vial: 1:2,B

Handwritten:
PWA
03-17-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	2.59	1380.977	1380.977	bb			0.0486	97.21	-2.79	984.230	2.89
WCL100318-07CRI	Perchlorate-101	101 > 85	2.58	478.225	478.225	bb			0.0527	105.34	5.34	83.584	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	2.58	10977.331	10977.331	bb			0.5175	103.50	3.50	3142.5...	

Handwritten:
PWA
3/20/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031810a.qld

Last Altered: Friday, March 19, 2010 6:42:22 AM Eastern Standard Time
Printed: Friday, March 19, 2010 7:00:05 AM Eastern Standard Time

Name: per0318050a

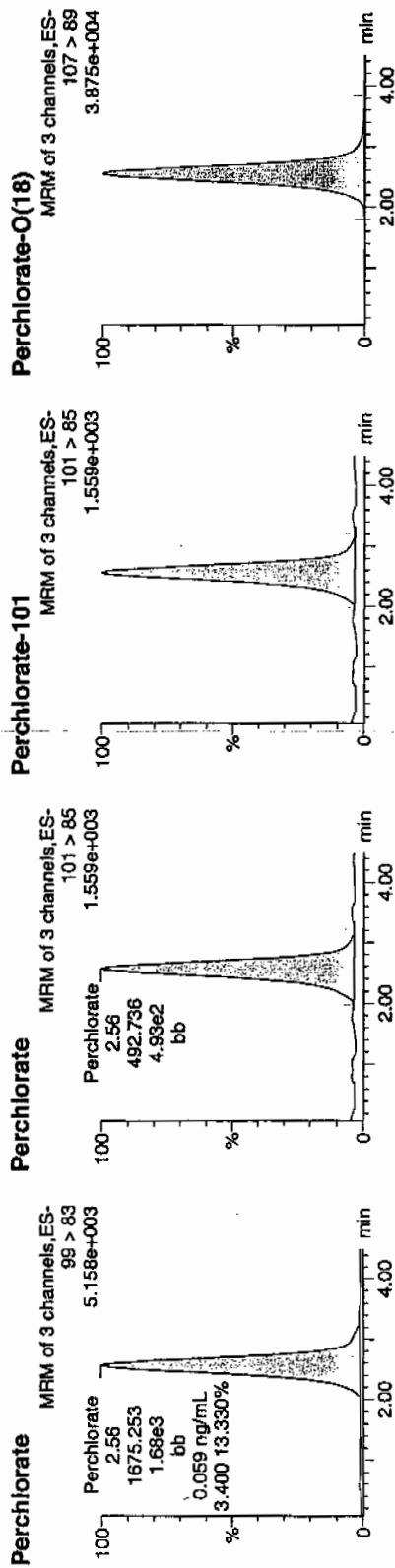
Date: 18-Mar-2010

Time: 21:34:02

ID: WCL100318-07CRI

Vial: 1:2,B

*Recd
WCL
23-14-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	2.56	1675.253	1675.253	bb			0.0590	117.92	17.92	2014.1...	3.40
WCL100318-07CRI	Perchlorate-101	101 > 85	2.56	492.736	492.736	bb			0.0543	108.54	8.54	153.068	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	2.55	13014.146	13014.146	bb			0.6135	122.70	22.70	560.337	

*WCL
3/23/10*

QUALITY CONTROL

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: SOIL

Extraction Batch ID: 259025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

MB

Date Received: 10-MAR-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 1202056692

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 100

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	0.500	ug/kg	U	1	18-MAR-10 01:32	per0317102a
	Perchlorate Isotope Ratio						1	18-MAR-10 01:32	per0317102a
14797-73-0	Perchlorate-101	.5	2	0.500	ug/kg	U	1	18-MAR-10 01:32	per0317102a
	Perchlorate-O(18)			4.76	ug/kg		1	18-MAR-10 01:32	per0317102a

[^] 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 $\frac{1}{\% \text{Solids}}$

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

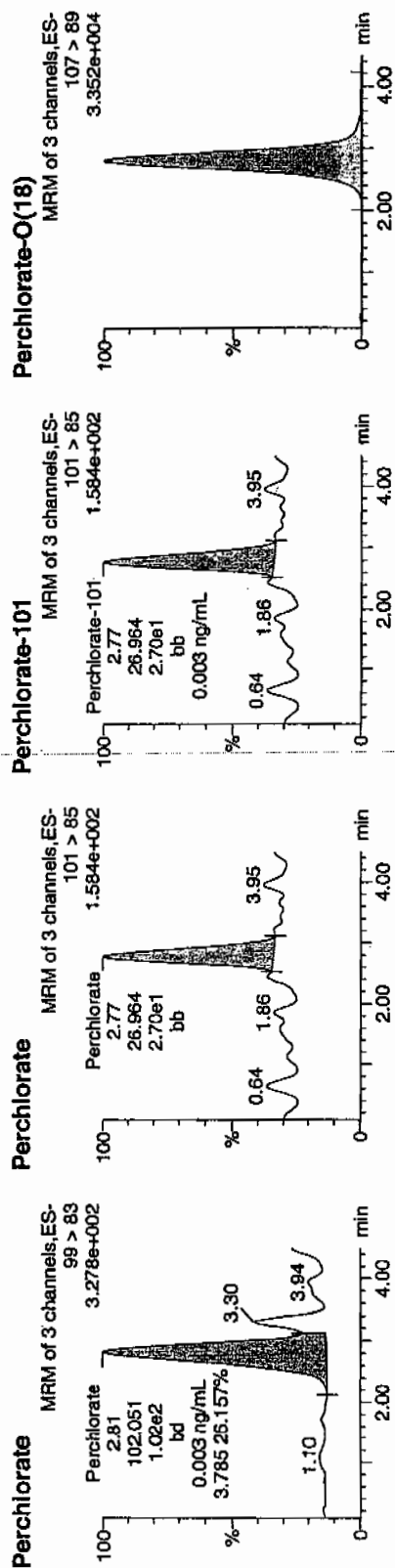
Name: per0317102a

Date: 18-Mar-2010

Time: 01:32:00

ID: 1202056692

Vial: 3:1,A



ID#	Name	Flow	Flt	Area	Response	Flags	Mod Date	Mod Line	Norm	Rec	Dev	SN	Ion Ratio
1202056692	Perchlorate	99 > 83	2.81	102.051	102.051	bd			0.0034			63.628	3.78
1202056692	Perchlorate-101	101 > 85	2.77	26.964	26.964	bb			0.0027			20.097	
1202056692	Perchlorate-O(18)	107 > 89	2.81	11641.276	11641.276	bb			0.4758	95.16	-4.84	3489.0...	

not
3/20/20

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: SOIL

Extraction Batch ID: 959025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

LCS

Date Received: 10-MAR-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 1202056693

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 100

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	1.95	ug/kg	J	1	18-MAR-10 01:39	per0317103a
	Perchlorate Isotope Ratio			2.99			1	18-MAR-10 01:39	per0317103a
14797-73-0	Perchlorate-101	.5	2	1.97	ug/kg	J	1	18-MAR-10 01:39	per0317103a
	Perchlorate-O(18)			4.47	ug/kg		1	18-MAR-10 01:39	per0317103a

[^] 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 $\frac{\% \text{Solids}}{1}$

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

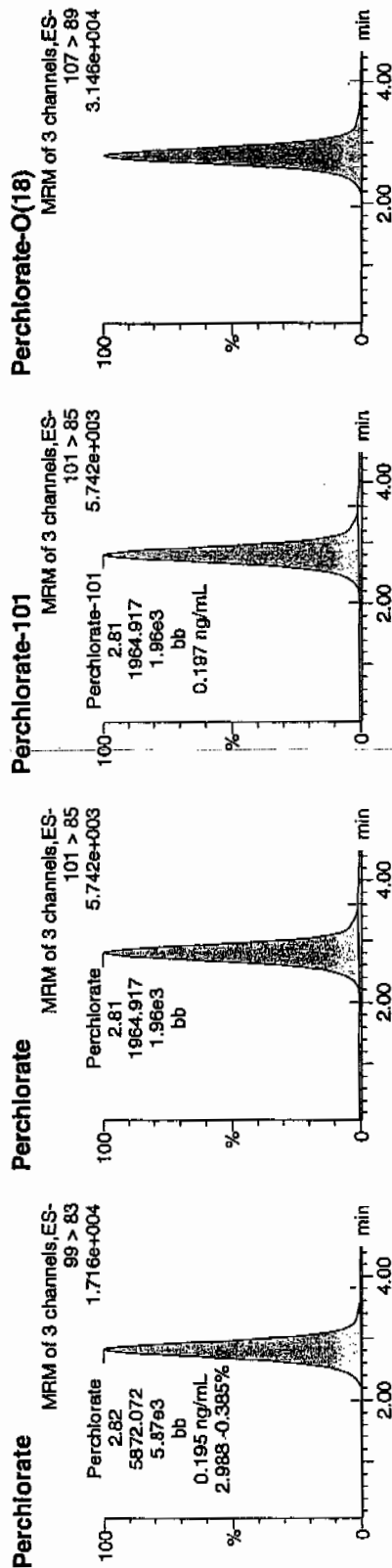
Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317103a
Date: 18-Mar-2010
Time: 01:39:45
ID: 1202056693
Vial: 3:1,B

33-18-10

1202056693 | 959029 | 5010 | LGS | 11



ID	Name	Type	RT	Area	Response	Flags	Mod Date	Mod Time	SN	Ratio
1202056693	Perchlorate	99 > 83	2.82	5872.072	5872.072	bb			0.1947	97.33
1202056693	Perchlorate-101	101 > 85	2.81	1964.917	1964.917	bb			0.1965	98.27
1202056693	Perchlorate-O(18)	107 > 89	2.80	10940.251	10940.251	bb			0.4472	89.43
										-2.67
										3879.4...
										2.89
										-1.73
										81.231
										-10.57
										2817.9...

5872.072 / 30166.6 = 0.1947

14877
3/20/10

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: 959025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8464MS

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 1202056694

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 90.5

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.553	2.21	2.64	ug/kg		1	18-MAR-10 03:56	per0317121a
	Perchlorate Isotope Ratio			2.99			1	18-MAR-10 03:56	per0317121a
14797-73-0	Perchlorate-101	.553	2.21	2.66	ug/kg		1	18-MAR-10 03:56	per0317121a
	Perchlorate-O(18)			5.05	ug/kg		1	18-MAR-10 03:56	per0317121a

[^] 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: Charfers W. Wilson

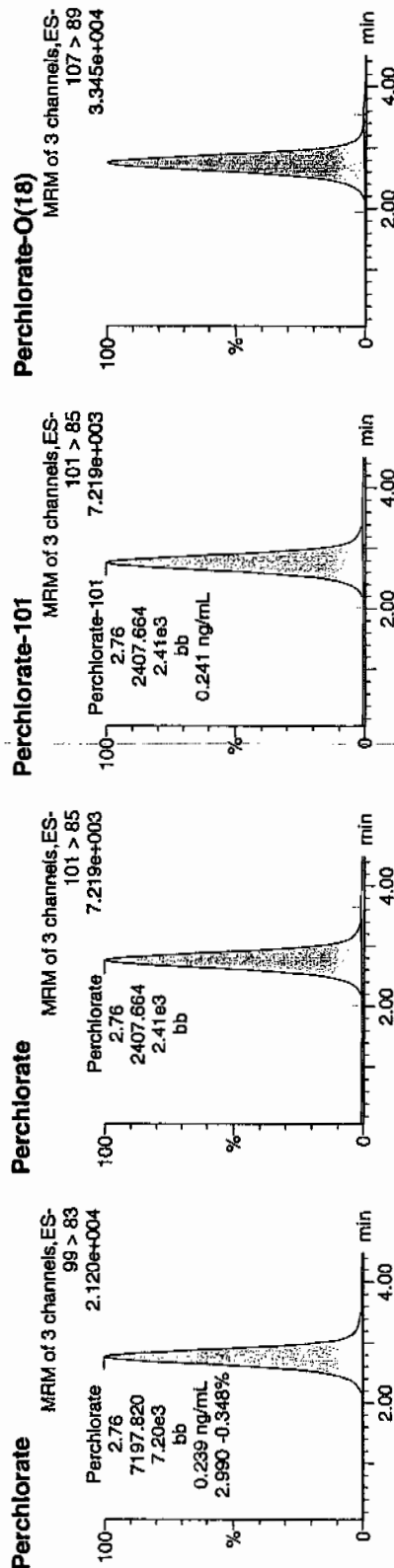
Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317121a
Date: 18-Mar-2010
Time: 03:56:44
ID: 1202056694
Vial: 3:3,E

03-18-10

1202056694 | 5070 | 115 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod	Date	Mod	Time	ng/mL	%Rec	%Dev	S/N	Ion	Ratio
1202056694	Perchlorate	99 > 83	2.76	7197.820	7197.820	bb					0.2386	119.30	19.30	3279.4...	2.99	
1202056694	Perchlorate-101	101 > 85	2.76	2407.664	2407.664	bb					0.2408	120.41	20.41	957.356		
1202056694	Perchlorate-O(18)	107 > 89	2.75	11187.445	11187.445	bb					0.4573	91.45	-8.55	3096.5...		

7197.820
30166.6

0.2386

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: 959025

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-846MSD

Date Received: 27-FEB-10

GEL Job No (SDG): 10-2138-1

GEL Sample ID: 1202056695

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 20.5

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.553	2.21	2.59	ug/kg		1	18-MAR-10 04:04	per0317122a
	Perchlorate Isotope Ratio			2.87			1	18-MAR-10 04:04	per0317122a
14797-73-0	Perchlorate-101	.553	2.21	2.73	ug/kg		1	18-MAR-10 04:04	per0317122a
	Perchlorate-O(18)			5.22	ug/kg		1	18-MAR-10 04:04	per0317122a

[^] 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

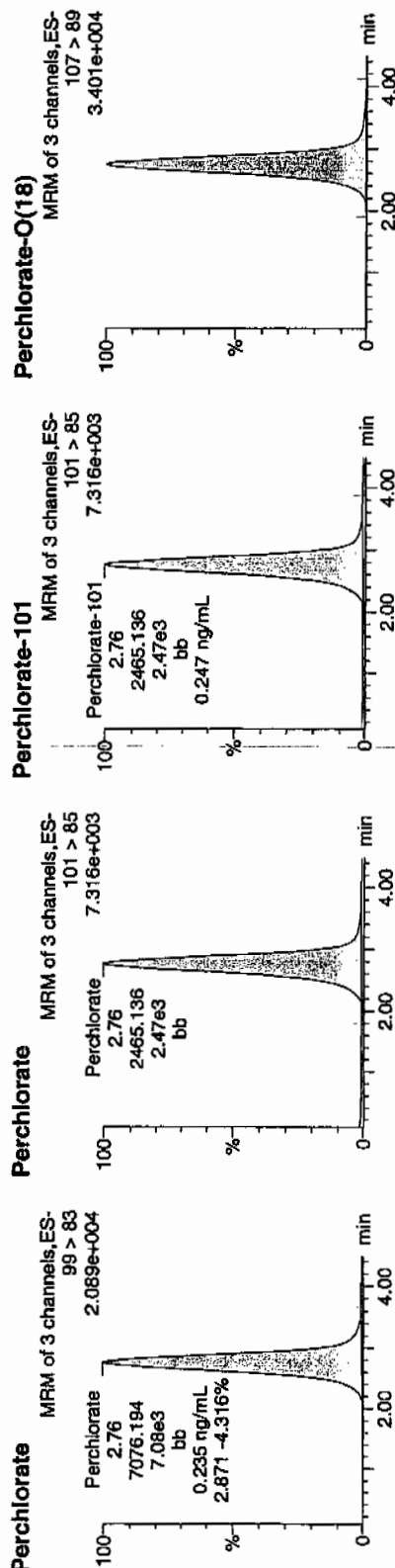
Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317122a
Date: 18-Mar-2010
Time: 04:04:16
ID: 1202056695
Vial: 3:3,F

03-18-10

LAN-1959029 | 5070 | MSO | 1



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
1202056695	Perchlorate	99 > 83	2.76	7076.194	7076.194	bb			0.2346	117.29	17.29	757.416	2.87
1202056695	Perchlorate-101	101 > 85	2.76	2465.136	2465.136	bb			0.2466	123.29	23.29	697.333	
1202056695	Perchlorate-O(18)	107 > 89	2.74	11547.184	11547.184	bb			0.4720	94.39	-5.61	1156.9...	

4077
3/18/10

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: 959025 Verified by: Lab SOP: GL-OA-E-067 REV# 6
 Analyst: Jareth Shirley Instrument: MicroMass Quatro Ultima
 Method: SW846 6850 Modified

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1203056692 MB	10-MAR-2010 13:37:00	2	20	10
1203056693 LCS	10-MAR-2010 13:37:00	2	20	10
248189001	10-MAR-2010 13:37:00	2	20	10
248189002	10-MAR-2010 13:37:00	2	20	10
248202001	10-MAR-2010 13:37:00	2	20	10
248202002	10-MAR-2010 13:37:00	2	20	10
248203002	10-MAR-2010 13:37:00	2	20	10
248237001	10-MAR-2010 13:37:00	2	20	10
248237002	10-MAR-2010 13:37:00	2	20	10
248237003	10-MAR-2010 13:37:00	2	20	10
248237004	10-MAR-2010 13:37:00	2	20	10
248237005	10-MAR-2010 13:37:00	2	20	10
248237006	10-MAR-2010 13:37:00	2	20	10
248237007	10-MAR-2010 13:37:00	2	20	10
248247001	10-MAR-2010 13:37:00	2	20	10
1203056694 MS (248247001)	10-MAR-2010 13:37:00	2	20	10
1203056695 MSD (248247001)	10-MAR-2010 13:37:00	2	20	10
248247002	10-MAR-2010 13:37:00	2	20	10
248247003	10-MAR-2010 13:37:00	2	20	10
248247004	10-MAR-2010 13:37:00	2	20	10
248247005	10-MAR-2010 13:37:00	2	20	10
248247006	10-MAR-2010 13:37:00	2	20	10
248247007	10-MAR-2010 13:37:00	2	20	10
248247008	10-MAR-2010 13:37:00	2	20	10
1203056696 ICS	10-MAR-2010 13:37:00	2	20	10

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments
ICS	1203056696	10 ug/L ICV/CCV Second Source	UCL100226-01.2	.4	mL	Desilting cartridges used: 100216-I-H & 100223-I-Ba
LCS	1203056693	10 ug/L ICV/CCV Second Source	UCL100226-01.2	.4	mL	
MS	1203056694	10 ug/L ICV/CCV Second Source	UCL100226-01.2	.4	mL	
MSD	1203056695	10 ug/L ICV/CCV Second Source	UCL100226-01.2	.4	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 03/17/10

Extr. Injection Volume: 20uL

Sequence Number: per031710a

Initial Calibration Date: 03/17/10

Method: EPA 6850-Modified

Int. Std.: UCL100210-01

Mobile Phase Lot#: 1278668, 1271949

Standard-Samp Reagent Lot#: 1271949

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0317001a	IPB001	CWW	3/17/2010 12:46			1		USE	B
per0317002a	IPB001	CWW	3/17/2010 12:54			1		USE	B
per0317003a	WCLICAL-01	CWW	3/17/2010 13:01			1		USE	I
per0317004a	WCLICAL-02	CWW	3/17/2010 13:09			1		USE	I
per0317005a	WCLICAL-03	CWW	3/17/2010 13:16			1		USE	I
per0317006a	WCLICAL-04	CWW	3/17/2010 13:24			1		USE	I
per0317007a	WCLICAL-05	CWW	3/17/2010 13:31			1		USE	I
per0317008a	IPB002	CWW	3/17/2010 13:39			1		USE	B
per0317009a	WCLICV	CWW	3/17/2010 13:46			1		USE	C
per0317010a	IPB003	CWW	3/17/2010 13:54			1		USE	B
per0317011a	WCLCRI	CWW	3/17/2010 14:02			1		USE	C
per0317012a	1202056471	CWW	3/17/2010 14:09	958897	VARIOUS	1	LANL	USE	S
per0317013a	1202056472	CWW	3/17/2010 14:17	958897	VARIOUS	1	LANL	USE	S
per0317014a	1202056475	CWW	3/17/2010 14:24	958897	VARIOUS	1	LANL	USE	S
per0317015a	247806001	CWW	3/17/2010 14:32	958897	10-1991	1	LANL	USE	S
per0317016a	247806002	CWW	3/17/2010 14:39	958897	10-1991	1	LANL	USE	S
per0317017a	1202056473	CWW	3/17/2010 14:47	958897	10-1991	1	LANL	USE	S
per0317018a	1202056474	CWW	3/17/2010 14:54	958897	10-1991	1	LANL	USE	S
per0317019a	247806003	CWW	3/17/2010 15:02	958897	10-1991	1	LANL	USE	S
per0317020a	247806004	CWW	3/17/2010 15:09	958897	10-1991	1	LANL	USE	S
per0317021a	247806005	CWW	3/17/2010 15:17	958897	10-1991	1	LANL	USE	S
per0317022a	WCLCCV	CWW	3/17/2010 15:24			1		USE	C
per0317023a	IPB004	CWW	3/17/2010 15:32			1		USE	B
per0317024a	WCLCRI	CWW	3/17/2010 15:40			1		USE	C
per0317025a	247806006	CWW	3/17/2010 15:47	958897	10-1991	1	LANL	USE	S
per0317026a	247806007	CWW	3/17/2010 15:55	958897	10-1991	1	LANL	USE	S
per0317027a	247806008	CWW	3/17/2010 16:02	958897	10-1991	1	LANL	USE	S
per0317028a	247806009	CWW	3/17/2010 16:10	958897	10-1991	1	LANL	USE	S
per0317029a	247806010	CWW	3/17/2010 16:17	958897	10-1991	1	LANL	USE	S

Reviewed BY: HRT

Date: 3/20/10

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Alt Check Std. ID: WCL100309-06

per0317030a	247806011	CWW	3/17/2010 16:25	958897	10-1991	1	LANL	USE	S
per0317031a	247806012	CWW	3/17/2010 16:32	958897	10-1991	1	LANL	USE	S
per0317032a	247918001	CWW	3/17/2010 16:40	958897	10-2016	1	LANL	USE	S
per0317033a	247918002	CWW	3/17/2010 16:47	958897	10-2016	1	LANL	USE	S
per0317034a	247918003	CWW	3/17/2010 16:55	958897	10-2016	1	LANL	USE	S
per0317035a	WCLCCV	CWW	3/17/2010 17:03			1		USE	C
per0317036a	IPB005	CWW	3/17/2010 17:10			1		USE	B
per0317037a	WCLCRI	CWW	3/17/2010 17:18			1		USE	C
per0317038a	247918004	CWW	3/17/2010 17:25	958897	10-2016	1	LANL	USE	S
per0317039a	247918005	CWW	3/17/2010 17:33	958897	10-2016	1	LANL	USE	S
per0317040a	247918006	CWW	3/17/2010 17:41	958897	10-2016	1	LANL	USE	S
per0317041a	247918007	CWW	3/17/2010 17:48	958897	10-2016	1	LANL	USE	S
per0317042a	IPB006	CWW	3/17/2010 17:56			1		USE	B
per0317043a	1202056513	CWW	3/17/2010 18:03	958918	VARIOUS	1	LANL	USE	S
per0317044a	1202056514	CWW	3/17/2010 18:11	958918	VARIOUS	1	LANL	USE	S
per0317045a	1202056517	CWW	3/17/2010 18:18	958918	VARIOUS	1	LANL	USE	S
per0317046a	248000001	CWW	3/17/2010 18:26	958918	10-2025-1	1	LANL	USE	S
per0317047a	248000002	CWW	3/17/2010 18:34	958918	10-2025-1	1	LANL	USE	S
per0317048a	WCLCCV	CWW	3/17/2010 18:41			1		USE	C
per0317049a	IPB007	CWW	3/17/2010 18:49			1		USE	B
per0317050a	WCLCRI	CWW	3/17/2010 18:56			1		USE	C
per0317051a	248000003	CWW	3/17/2010 19:04	958918	10-2025-1	1	LANL	USE	S
per0317052a	248000004	CWW	3/17/2010 19:12	958918	10-2025-1	1	LANL	USE	S
per0317053a	248000005	CWW	3/17/2010 19:19	958918	10-2025-1	1	LANL	USE	S
per0317054a	248002001	CWW	3/17/2010 19:27	958918	10-2028-1	1	LANL	USE	S
per0317055a	1202056515	CWW	3/17/2010 19:34	958918	10-2028-1	1	LANL	USE	S
per0317056a	1202056516	CWW	3/17/2010 19:42	958918	10-2028-1	1	LANL	USE	S
per0317057a	248002002	CWW	3/17/2010 19:49	958918	10-2028-1	1	LANL	USE	S
per0317058a	248002003	CWW	3/17/2010 19:57	958918	10-2028-1	1	LANL	USE	S
per0317059a	248002004	CWW	3/17/2010 20:04	958918	10-2028-1	1	LANL	USE	S
per0317060a	WCLCCV	CWW	3/17/2010 20:12			1		USE	C
per0317061a	IPB008	CWW	3/17/2010 20:20			1		USE	B
per0317062a	WCLCRI	CWW	3/17/2010 20:27			1		USE	C
per0317063a	248002005	CWW	3/17/2010 20:35	958918	10-2028-1	1	LANL	USE	S
per0317064a	248002006	CWW	3/17/2010 20:42	958918	10-2028-1	1	LANL	USE	S
per0317065a	248002007	CWW	3/17/2010 20:50	958918	10-2028-1	1	LANL	USE	S
per0317066a	248002008	CWW	3/17/2010 20:58	958918	10-2028-1	1	LANL	USE	S

per0317067a	248016001	CWW	3/17/2010 21:05	958918	10-2035	1	LANL	USE	S
per0317068a	248016002	CWW	3/17/2010 21:13	958918	10-2035	1	LANL	USE	S
per0317069a	248016003	CWW	3/17/2010 21:20	958918	10-2035	1	LANL	USE	S
per0317070a	248016004	CWW	3/17/2010 21:28	958918	10-2035	1	LANL	USE	S
per0317071a	WCLCCV	CWW	3/17/2010 21:35			1		USE	C
per0317072a	IPB009	CWW	3/17/2010 21:43			1		USE	B
per0317073a	WCLCRI	CWW	3/17/2010 21:51			1		USE	C
per0317074a	1202056547	CWW	3/17/2010 21:58	958937	VARIOUS	1	LANL	DUSE-RA	S
per0317075a	1202056548	CWW	3/17/2010 22:06	958937	VARIOUS	1	LANL	DUSE-RA	S
per0317076a	1202056551	CWW	3/17/2010 22:13	958937	VARIOUS	1	LANL	DUSE-RA	S
per0317077a	248025001	CWW	3/17/2010 22:21	958937	10-2048	1	LANL	DUSE-RA	S
per0317078a	248025002	CWW	3/17/2010 22:29	958937	10-2048	1	LANL	DUSE-RA	S
per0317079a	248025003	CWW	3/17/2010 22:36	958937	10-2048	1	LANL	DUSE-RA	S
per0317080a	248025004	CWW	3/17/2010 22:44	958937	10-2048	1	LANL	DUSE-RA	S
per0317081a	248025005	CWW	3/17/2010 22:51	958937	10-2048	1	LANL	DUSE-RA	S
per0317082a	248025006	CWW	3/17/2010 22:59	958937	10-2048	1	LANL	DUSE-RA	S
per0317083a	248025007	CWW	3/17/2010 23:06	958937	10-2048	1	LANL	DUSE-RA	S
per0317084a	WCLCCV	CWW	3/17/2010 23:14			1		DUSE	C
per0317085a	IPB010	CWW	3/17/2010 23:22			1		DUSE	B
per0317086a	WCLCRI	CWW	3/17/2010 23:29			1		DUSE	C
per0317087a	248033001	CWW	3/17/2010 23:37	958937	10-2072	1	LANL	DUSE-RA	S
per0317088a	1202056549	CWW	3/17/2010 23:45	958937	10-2072	1	LANL	DUSE-RA	S
per0317089a	1202056550	CWW	3/17/2010 23:52	958937	10-2072	1	LANL	DUSE-RA	S
per0317090a	248033002	CWW	3/18/2010 0:00	958937	10-2072	1	LANL	DUSE-RA	S
per0317091a	248033003	CWW	3/18/2010 0:07	958937	10-2072	1	LANL	DUSE-RA	S
per0317092a	248033004	CWW	3/18/2010 0:15	958937	10-2072	1	LANL	DUSE-RA	S
per0317093a	248033005	CWW	3/18/2010 0:22	958937	10-2072	1	LANL	DUSE-RA	S
per0317094a	248033006	CWW	3/18/2010 0:30	958937	10-2072	1	LANL	DUSE-RA	S
per0317095a	248033007	CWW	3/18/2010 0:38	958937	10-2072	1	LANL	DUSE-RA	S
per0317096a	248033008	CWW	3/18/2010 0:45	958937	10-2072	1	LANL	DUSE-RA	S
per0317097a	WCLCCV	CWW	3/18/2010 0:53			1		USE	C
per0317098a	IPB011	CWW	3/18/2010 1:01			1		USE	B
per0317099a	WCLCRI	CWW	3/18/2010 1:08			1		USE	C
per0317100a	248033009	CWW	3/18/2010 1:16	958937	10-2072	1	LANL	DUSE-RA	S
per0317101a	IPB012	CWW	3/18/2010 1:24			1		USE	B
per0317102a	1202056692	CWW	3/18/2010 1:32	959029	VARIOUS	1	LANL	USE	S
per0317103a	1202056693	CWW	3/18/2010 1:39	959029	VARIOUS	1	LANL	USE	S

per0317104a	1202056696	CWW	3/18/2010 1:47	959029	VARIOUS	1	LANL	USE	S
per0317105a	248189001	CWW	3/18/2010 1:55	959029	10-2120-1	1	LANL	USE	S
per0317106a	248189002	CWW	3/18/2010 2:02	959029	10-2120-1	1	LANL	USE	S
per0317107a	248202001	CWW	3/18/2010 2:10	959029	10-2124	1	LANL	USE	S
per0317108a	248202002	CWW	3/18/2010 2:18	959029	10-2124	1	LANL	DUSE-DL	S
per0317109a	248203002	CWW	3/18/2010 2:25	959029	10-2125	1	LANL	DUSE-RA	S
per0317110a	WCLCCV	CWW	3/18/2010 2:33			1		USE	C
per0317111a	IPB013	CWW	3/18/2010 2:41			1		USE	B
per0317112a	WCLCRI	CWW	3/18/2010 2:48			1		USE	C
per0317113a	248237001	CWW	3/18/2010 2:56	959029	10-2132	1	LANL	USE	S
per0317114a	248237002	CWW	3/18/2010 3:04	959029	10-2132	1	LANL	USE	S
per0317115a	248237003	CWW	3/18/2010 3:11	959029	10-2132	1	LANL	USE	S
per0317116a	248237004	CWW	3/18/2010 3:19	959029	10-2132	1	LANL	USE	S
per0317117a	248237005	CWW	3/18/2010 3:26	959029	10-2132	1	LANL	USE	S
per0317118a	248237006	CWW	3/18/2010 3:34	959029	10-2132	1	LANL	USE	S
per0317119a	248237007	CWW	3/18/2010 3:41	959029	10-2132	1	LANL	USE	S
per0317120a	248247001	CWW	3/18/2010 3:49	959029	10-2138-1	1	LANL	USE	S
per0317121a	1202056694	CWW	3/18/2010 3:56	959029	10-2138-1	1	LANL	USE	S
per0317122a	1202056695	CWW	3/18/2010 4:04	959029	10-2138-1	1	LANL	USE	S
per0317123a	WCLCCV	CWW	3/18/2010 4:11			1		USE	C
per0317124a	IPB014	CWW	3/18/2010 4:19			1		USE	B
per0317125a	WCLCRI	CWW	3/18/2010 4:27			1		USE	C
per0317126a	248247002	CWW	3/18/2010 4:34	959029	10-2138-1	1	LANL	DUSE-RA	S
per0317127a	248247003	CWW	3/18/2010 4:42	959029	10-2138-1	1	LANL	DUSE-RA	S
per0317128a	248247004	CWW	3/18/2010 4:49	959029	10-2138-1	1	LANL	DUSE-RA	S
per0317129a	248247005	CWW	3/18/2010 4:57	959029	10-2138-1	1	LANL	DUSE-RA	S
per0317130a	248247006	CWW	3/18/2010 5:05	959029	10-2138-1	1	LANL	DUSE-RA	S
per0317131a	248247007	CWW	3/18/2010 5:12	959029	10-2138-1	1	LANL	DUSE-RA	S
per0317132a	248247008	CWW	3/18/2010 5:20	959029	10-2138-1	1	LANL	DUSE-RA	S
per0317133a	WCLCCV	CWW	3/18/2010 5:27			1		USE	C
per0317134a	IPB015	CWW	3/18/2010 5:35			1		DUSE	B
per0317135a	WCLCRI	CWW	3/18/2010 5:42			1		DUSE	C

2021-10

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 03/18/10
 Extr. Injection Volume: 20uL
 Sequence Number: per031810a
 Initial Calibration Date: 03/18/10

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

Reviewed BY: MAH
 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
per0318001a	IPB001	CWW	3/18/2010 15:22			1		USE	B
per0318002a	IPB001	CWW	3/18/2010 15:30			1		USE	B
per0318003a	WCLICAL-01	CWW	3/18/2010 15:37			1		USE	I
per0318004a	WCLICAL-02	CWW	3/18/2010 15:45			1		USE	I
per0318005a	WCLICAL-03	CWW	3/18/2010 15:52			1		USE	I
per0318006a	WCLICAL-04	CWW	3/18/2010 16:00			1		USE	I
per0318007a	WCLICAL-05	CWW	3/18/2010 16:07			1		USE	I
per0318008a	IPB002	CWW	3/18/2010 16:15			1		USE	B
per0318009a	WCLICV	CWW	3/18/2010 16:22			1		USE	C
per0318010a	IPB003	CWW	3/18/2010 16:30			1		USE	B
per0318011a	WCLCRI	CWW	3/18/2010 16:38			1		USE	C
per0318012a	1202056547	CWW	3/18/2010 16:45	958937	VARIOUS	1	LANL	USE	S
per0318013a	1202056548	CWW	3/18/2010 16:53	958937	VARIOUS	1	LANL	USE	S
per0318014a	1202056551	CWW	3/18/2010 17:00	958937	VARIOUS	1	LANL	USE	S
per0318015a	248025001	CWW	3/18/2010 17:08	958937	10-2048	1	LANL	USE	S
per0318016a	248025002	CWW	3/18/2010 17:15	958937	10-2048	1	LANL	USE	S
per0318017a	248025003	CWW	3/18/2010 17:23	958937	10-2048	1	LANL	USE	S
per0318018a	248025004	CWW	3/18/2010 17:30	958937	10-2048	1	LANL	USE	S
per0318019a	248025005	CWW	3/18/2010 17:38	958937	10-2048	1	LANL	USE	S
per0318020a	248025006	CWW	3/18/2010 17:46	958937	10-2048	1	LANL	USE	S
per0318021a	248025007	CWW	3/18/2010 17:53	958937	10-2048	1	LANL	USE	S
per0318022a	WCLCCV	CWW	3/18/2010 18:01			1		USE	C
per0318023a	IPB004	CWW	3/18/2010 18:09			1		USE	B
per0318024a	WCLCRI	CWW	3/18/2010 18:16			1		USE	C
per0318025a	248033001	CWW	3/18/2010 18:24	958937	10-2072	1	LANL	USE	S
per0318026a	1202056549	CWW	3/18/2010 18:31	958937	10-2072	1	LANL	USE	S
per0318027a	1202056550	CWW	3/18/2010 18:39	958937	10-2072	1	LANL	USE	S
per0318028a	248033002	CWW	3/18/2010 18:47	958937	10-2072	1	LANL	USE	S
per0318029a	248033003	CWW	3/18/2010 18:54	958937	10-2072	1	LANL	USE	S

per0318030a	248033004	CWW	3/18/2010 19:02	958937	10-2072	1	LANL	USE	S
per0318031a	248033005	CWW	3/18/2010 19:10	958937	10-2072	1	LANL	USE	S
per0318032a	248033006	CWW	3/18/2010 19:17	958937	10-2072	1	LANL	USE	S
per0318033a	248033007	CWW	3/18/2010 19:25	958937	10-2072	1	LANL	USE	S
per0318034a	248033008	CWW	3/18/2010 19:32	958937	10-2072	1	LANL	USE	S
per0318035a	WCLCCV	CWW	3/18/2010 19:40			1		USE	C
per0318036a	IPB005	CWW	3/18/2010 19:47			1		USE	B
per0318037a	WCLCRI	CWW	3/18/2010 19:55			1		USE	C
per0318038a	248033009	CWW	3/18/2010 20:03	958937	10-2072	1	LANL	USE	S
per0318039a	248202002	CWW	3/18/2010 20:10	959029	10-2124	4	LANL	USE	S
per0318040a	248203002	CWW	3/18/2010 20:18	959029	10-2125	1	LANL	USE	S
per0318041a	248247002	CWW	3/18/2010 20:25	959029	10-2138-1	1	LANL	USE	S
per0318042a	248247003	CWW	3/18/2010 20:33	959029	10-2138-1	1	LANL	USE	S
per0318043a	248247004	CWW	3/18/2010 20:40	959029	10-2138-1	1	LANL	USE	S
per0318044a	248247005	CWW	3/18/2010 20:48	959029	10-2138-1	1	LANL	USE	S
per0318045a	248247006	CWW	3/18/2010 20:56	959029	10-2138-1	1	LANL	USE	S
per0318046a	248247007	CWW	3/18/2010 21:03	959029	10-2138-1	1	LANL	USE	S
per0318047a	248247008	CWW	3/18/2010 21:11	959029	10-2138-1	1	LANL	USE	S
per0318048a	WCLCCV	CWW	3/18/2010 21:18			1		USE	C
per0318049a	IPB006	CWW	3/18/2010 21:26			1		USE	B
per0318050a	WCLCRI	CWW	3/18/2010 21:34			1		USE	C
per0318051a	1202056563	CWW	3/18/2010 21:41	958946	10-2075	1	LANL	USE	S
per0318052a	1202056564	CWW	3/18/2010 21:49	958946	10-2075	1	LANL	USE	S
per0318053a	1202056572	CWW	3/18/2010 21:57	958946	10-2075	1	LANL	USE	S
per0318054a	248045001	CWW	3/18/2010 22:05	958946	10-2075	1	LANL	USE	S
per0318055a	1202056565	CWW	3/18/2010 22:12	958946	10-2075	1	LANL	USE	S
per0318056a	1202056566	CWW	3/18/2010 22:20	958946	10-2075	1	LANL	USE	S
per0318057a	248045002	CWW	3/18/2010 22:27	958946	10-2075	1	LANL	USE	S
per0318058a	248045003	CWW	3/18/2010 22:35	958946	10-2075	1	LANL	USE	S
per0318059a	248045004	CWW	3/18/2010 22:42	958946	10-2075	1	LANL	USE	S
per0318060a	248045005	CWW	3/18/2010 22:50	958946	10-2075	1	LANL	USE	S
per0318061a	WCLCCV	CWW	3/18/2010 22:57			1		USE	C
per0318062a	IPB007	CWW	3/18/2010 23:05			1		USE	B
per0318063a	WCLCRI	CWW	3/18/2010 23:13			1		USE	C
per0318064a	248045006	CWW	3/18/2010 23:21	958946	10-2075	1	LANL	USE	S
per0318065a	248045007	CWW	3/18/2010 23:28	958946	10-2075	1	LANL	USE	S
per0318066a	248045008	CWW	3/18/2010 23:36	958946	10-2075	1	LANL	USE	S

per0318067a	248045009	CWW	3/18/2010 23:44	958946	10-2075	1	LANL	USE	S
per0318068a	248045010	CWW	3/18/2010 23:51	958946	10-2075	1	LANL	USE	S
per0318069a	248045011	CWW	3/18/2010 23:59	958946	10-2075	1	LANL	USE	S
per0318070a	248045012	CWW	3/19/2010 0:06	958946	10-2075	1	LANL	USE	S
per0318071a	248045013	CWW	3/19/2010 0:14	958946	10-2075	1	LANL	USE	S
per0318072a	248045014	CWW	3/19/2010 0:21	958946	10-2075	1	LANL	USE	S
per0318073a	248045015	CWW	3/19/2010 0:29	958946	10-2075	1	LANL	USE	S
per0318074a	WCLCCV	CWW	3/19/2010 0:36			1		USE	C
per0318075a	IPB008	CWW	3/19/2010 0:44			1		USE	B
per0318076a	WCLCRI	CWW	3/19/2010 0:52			1		USE	C
per0318077a	248045016	CWW	3/19/2010 0:59	958946	10-2075	1	LANL	USE	S
per0318078a	248045017	CWW	3/19/2010 1:07	958946	10-2075	1	LANL	USE	S
per0318079a	248045018	CWW	3/19/2010 1:15	958946	10-2075	1	LANL	USE	S
per0318080a	IPB009	CWW	3/19/2010 1:22			1		USE	B
per0318081a	1202056668	CWW	3/19/2010 1:30	959004	10-2117	1	LANL	USE	S
per0318082a	1202056669	CWW	3/19/2010 1:38	959004	10-2117	1	LANL	USE	S
per0318083a	1202056672	CWW	3/19/2010 1:45	959004	10-2117	1	LANL	USE	S
per0318084a	248183001	CWW	3/19/2010 1:53	959004	10-2117	1	LANL	USE	S
per0318085a	1202056670	CWW	3/19/2010 2:00	959004	10-2117	1	LANL	USE	S
per0318086a	1202056671	CWW	3/19/2010 2:08	959004	10-2117	1	LANL	USE	S
per0318087a	WCLCCV	CWW	3/19/2010 2:15			1		USE	C
per0318088a	IPB010	CWW	3/19/2010 2:23			1		USE	B
per0318089a	WCLCRI	CWW	3/19/2010 2:31			1		USE	C
per0318090a	248183002	CWW	3/19/2010 2:39	959004	10-2117	1	LANL	USE	S
per0318091a	248183003	CWW	3/19/2010 2:46	959004	10-2117	1	LANL	USE	S
per0318092a	248183004	CWW	3/19/2010 2:54	959004	10-2117	1	LANL	USE	S
per0318093a	248183005	CWW	3/19/2010 3:01	959004	10-2117	1	LANL	USE	S
per0318094a	248183006	CWW	3/19/2010 3:09	959004	10-2117	1	LANL	USE	S
per0318095a	248183007	CWW	3/19/2010 3:17	959004	10-2117	1	LANL	USE	S
per0318096a	248183008	CWW	3/19/2010 3:24	959004	10-2117	1	LANL	USE	S
per0318097a	248183009	CWW	3/19/2010 3:32	959004	10-2117	1	LANL	USE	S
per0318098a	248183010	CWW	3/19/2010 3:39	959004	10-2117	1	LANL	USE	S
per0318099a	248183011	CWW	3/19/2010 3:47	959004	10-2117	1	LANL	USE	S
per0318100a	WCLCCV	CWW	3/19/2010 3:54			1		USE	C
per0318101a	IPB011	CWW	3/19/2010 4:02			1		USE	B
per0318102a	WCLCRI	CWW	3/19/2010 4:10			1		USE	C
per0318103a	248183012	CWW	3/19/2010 4:17	959004	10-2117	1	LANL	USE	S

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per0318113a
per0318114a

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 10-2138**

Sample Analysis

Sample ID	Client ID
248245001	RE36-10-8493
1202056957	Method Blank (MB) ICP
1202056958	Laboratory Control Sample (LCS)
1202056961	248257001(RE46-10-13544L) Serial Dilution (SD)
1202056959	248257001(RE46-10-13544D) Sample Duplicate (DUP)
1202056960	248257001(RE46-10-13544S) Matrix Spike (MS)
1202056962	Method Blank (MB) ICP-MS
1202056963	Laboratory Control Sample (LCS)
1202056966	248257001(RE46-10-13544L) Serial Dilution (SD)
1202056964	248257001(RE46-10-13544D) Sample Duplicate (DUP)
1202056965	248257001(RE46-10-13544S) Matrix Spike (MS)
1202056608	Method Blank (MB) CVAA
1202056609	Laboratory Control Sample (LCS)
1202056612	248257001(RE46-10-13544L) Serial Dilution (SD)
1202056610	248257001(RE46-10-13544D) Sample Duplicate (DUP)
1202056611	248257001(RE46-10-13544S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Method/Analysis Information

Analytical Batch:	959141, 959143 and 958969
Prep Batch :	959140, 959142 and 958967
Standard Operating Procedures:	GL-MA-E-013 REV# 20, GL-MA-E-006 REV# 9, GL-MA-E-014 REV# 21 and GL-MA-E-010 REV# 23
Analytical Method:	SW846 3005/6010B, SW846 3005/6020 and SW846 7470A
Prep Method :	SW846 3005A and SW846 7470A 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 6100E inductively coupled plasma mass spectrometer (ICP-MS). The instrument is equipped with a cross-flow nebulizer, quadrupole mass spectrometer, and dual mode electron multiplier detector. Internal standards of scandium, germanium, indium, tantalum, and/or lutetium were utilized to cover the mass spectrum. Operating conditions are set at 1400W power and combined argon pressures of 360+/-7 kPa for the plasma and auxiliary gases, and 0.85 L/min carrier gas flow, and an initial lens voltage of 5.2.

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

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

Calibration Information

Instrument Calibration

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

CRDL Requirements

All CRDL standard(s) met the referenced advisory control limits.

ICSA/ICSAB Statement

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

Continuing Calibration Blank (CCB) Requirements

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

Continuing Calibration Verification (CCV) Requirements

All continuing calibration 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 spike recoveries met the acceptance limits.

Quality Control (QC) Sample Statement

The following samples were selected as the quality control (QC) samples for this SDG: 248257001 (RE46-10-13544)-ICP, ICP-MS and 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. All applicable elements met the acceptance criteria.

Duplicate Relative Percent Difference (RPD) Statement

The 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 RL, a control of +/-RL is used to evaluate the DUP results. All applicable analytes met these requirements.

Serial Dilution % Difference Statement

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

Technical Information**Holding Time Specifications**

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

on the day of expiration. All samples in this SDG met the specified holding time.

Sample Dilutions

Dilutions are performed to minimize matrix interferences resulting from elevated mineral element concentrations present in solid samples and/or to bring over range target analyte concentrations into the linear calibration range of the instrument. The samples in this SDG did not require dilutions.

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 (DERs) are generated to document procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

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: Nikhil A. Emore Date: 4.17.10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2138

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248245001

BASIS: As Received

DATE COLLECTED 24-FEB-10

CLIENT ID: RE36-10-8493

LEVEL: Low

DATE RECEIVED 27-FEB-10

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	200	ug/L	U	68	200	200	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	PRB	04/13/10 12:16	100413-3	959143
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BCD1	04/12/10 07:39	100411-2	959143
7440-43-9	Cadmium	0.273	ug/L	J	0.11	1	1	1	MS	BCD1	04/12/10 07:39	100411-2	959143
7440-70-2	Calcium	53	ug/L	J	50	200	200	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	03/31/10 09:41	033110A-1	959141
7439-89-6	Iron	52.2	ug/L	J	30	100	100	1	P	HSC	03/31/10 09:41	033110A-1	959141
7439-92-1	Lead	0.637	ug/L	J	0.5	2	2	1	MS	BCD1	04/12/10 07:39	100411-2	959143
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	03/31/10 09:41	033110A-1	959141
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	BCD1	04/12/10 07:39	100411-2	959143
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	03/02/10 12:41	030210W3-6	958969
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-09-7	Potassium	93.3	ug/L	J	50	150	150	1	P	HSC	03/31/10 09:41	033110A-1	959141
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-23-5	Sodium	157	ug/L	J	100	300	300	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	BCD1	04/12/10 07:39	100411-2	959143
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	PRB	04/13/10 15:34	100413-5	959143
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	03/31/10 09:41	033110A-1	959141
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	03/31/10 09:41	033110A-1	959141

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958969	958967	SW846 7470A Prep	20	mL	20	mL	03/01/10	TXB3
959141	959140	SW846 3005A	50	mL	50	mL	03/11/10	LYH1
959143	959142	SW846 3005A	50	mL	50	mL	03/11/10	LYH1

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2138

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,ICPMS5,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	5.2	ug/L	5	ug/L	104	90.0 – 110.0	AV	02-MAR-10 08:39	030210W3-6
	Aluminum	5230	ug/L	5000	ug/L	104.7	90.0 – 110.0	P	31-MAR-10 08:54	033110A-1
	Arsenic	494	ug/L	500	ug/L	98.7	90.0 – 110.0	P	31-MAR-10 08:54	033110A-1
	Barium	521	ug/L	500	ug/L	104.3	90.0 – 110.0	P	31-MAR-10 08:54	033110A-1
	Calcium	5150	ug/L	5000	ug/L	103	90.0 – 110.0	P	31-MAR-10 08:54	033110A-1
	Chromium	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	31-MAR-10 08:54	033110A-1
	Cobalt	522	ug/L	500	ug/L	104.4	90.0 – 110.0	P	31-MAR-10 08:54	033110A-1
	Copper	524	ug/L	500	ug/L	104.7	90.0 – 110.0	P	31-MAR-10 08:54	033110A-1
	Iron	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	31-MAR-10 08:54	033110A-1
	Magnesium	5460	ug/L	5000	ug/L	109.1	90.0 – 110.0	P	31-MAR-10 08:54	033110A-1
	Nickel	517	ug/L	500	ug/L	103.5	90.0 – 110.0	P	31-MAR-10 08:54	033110A-1
	Potassium	2520	ug/L	2500	ug/L	100.7	90.0 – 110.0	P	31-MAR-10 08:54	033110A-1
	Selenium	2590	ug/L	2500	ug/L	103.6	90.0 – 110.0	P	31-MAR-10 08:54	033110A-1
	Silver	267	ug/L	250	ug/L	106.8	90.0 – 110.0	P	31-MAR-10 08:54	033110A-1
	Sodium	2560	ug/L	2500	ug/L	102.6	90.0 – 110.0	P	31-MAR-10 08:54	033110A-1
	Vanadium	526	ug/L	500	ug/L	105.2	90.0 – 110.0	P	31-MAR-10 08:54	033110A-1
	Zinc	520	ug/L	500	ug/L	103.9	90.0 – 110.0	P	31-MAR-10 08:54	033110A-1
	Beryllium	51.6	ug/L	50	ug/L	103.2	90.0 – 110.0	MS	12-APR-10 06:19	100411-2
	Cadmium	51.8	ug/L	50	ug/L	103.5	90.0 – 110.0	MS	12-APR-10 06:19	100411-2
	Lead	52	ug/L	50	ug/L	104	90.0 – 110.0	MS	12-APR-10 06:19	100411-2
	Manganese	53.2	ug/L	50	ug/L	106.5	90.0 – 110.0	MS	12-APR-10 06:19	100411-2
	Thallium	49.5	ug/L	50	ug/L	99	90.0 – 110.0	MS	12-APR-10 06:19	100411-2
	Antimony	53.1	ug/L	50	ug/L	106.3	90.0 – 110.0	MS	13-APR-10 11:52	100413-3
	Uranium	49.6	ug/L	50	ug/L	99.3	90.0 – 110.0	MS	13-APR-10 15:17	100413-5
CCV01										
	Mercury	5.16	ug/L	5	ug/L	103.1	80.0 – 120.0	AV	02-MAR-10 08:45	030210W3-6
	Aluminum	5090	ug/L	5000	ug/L	101.8	90.0 – 110.0	P	31-MAR-10 09:17	033110A-1
	Arsenic	513	ug/L	500	ug/L	102.7	90.0 – 110.0	P	31-MAR-10 09:17	033110A-1
	Barium	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	31-MAR-10 09:17	033110A-1
	Calcium	5100	ug/L	5000	ug/L	102	90.0 – 110.0	P	31-MAR-10 09:17	033110A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2138

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,ICPMS5,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>
	Chromium	502	ug/L	500	ug/L	100.3	90.0 – 110.0	P	31-MAR-10 09:17	033110A-1
	Cobalt	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	31-MAR-10 09:17	033110A-1
	Copper	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 09:17	033110A-1
	Iron	5070	ug/L	5000	ug/L	101.4	90.0 – 110.0	P	31-MAR-10 09:17	033110A-1
	Magnesium	5210	ug/L	5000	ug/L	104.2	90.0 – 110.0	P	31-MAR-10 09:17	033110A-1
	Nickel	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	31-MAR-10 09:17	033110A-1
	Potassium	5070	ug/L	5000	ug/L	101.3	90.0 – 110.0	P	31-MAR-10 09:17	033110A-1
	Selenium	510	ug/L	500	ug/L	102	90.0 – 110.0	P	31-MAR-10 09:17	033110A-1
	Silver	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	31-MAR-10 09:17	033110A-1
	Sodium	10100	ug/L	10000	ug/L	100.6	90.0 – 110.0	P	31-MAR-10 09:17	033110A-1
	Vanadium	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	31-MAR-10 09:17	033110A-1
	Zinc	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	31-MAR-10 09:17	033110A-1
	Beryllium	49.7	ug/L	50	ug/L	99.3	90.0 – 110.0	MS	12-APR-10 06:50	100411-2
	Cadmium	52.2	ug/L	50	ug/L	104.3	90.0 – 110.0	MS	12-APR-10 06:50	100411-2
	Lead	51.2	ug/L	50	ug/L	102.4	90.0 – 110.0	MS	12-APR-10 06:50	100411-2
	Manganese	53.2	ug/L	50	ug/L	106.5	90.0 – 110.0	MS	12-APR-10 06:50	100411-2
	Thallium	49.9	ug/L	50	ug/L	99.8	90.0 – 110.0	MS	12-APR-10 06:50	100411-2
	Antimony	52.6	ug/L	50	ug/L	105.1	90.0 – 110.0	MS	13-APR-10 12:04	100413-3
	Uranium	49.3	ug/L	50	ug/L	98.6	90.0 – 110.0	MS	13-APR-10 15:26	100413-5
CCV02	Mercury	5.13	ug/L	5	ug/L	102.6	80.0 – 120.0	AV	02-MAR-10 09:08	030210W3-6
	Aluminum	5120	ug/L	5000	ug/L	102.4	90.0 – 110.0	P	31-MAR-10 09:47	033110A-1
	Arsenic	510	ug/L	500	ug/L	102.1	90.0 – 110.0	P	31-MAR-10 09:47	033110A-1
	Barium	500	ug/L	500	ug/L	100	90.0 – 110.0	P	31-MAR-10 09:47	033110A-1
	Calcium	5110	ug/L	5000	ug/L	102.2	90.0 – 110.0	P	31-MAR-10 09:47	033110A-1
	Chromium	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	31-MAR-10 09:47	033110A-1
	Cobalt	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	31-MAR-10 09:47	033110A-1
	Copper	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	31-MAR-10 09:47	033110A-1
	Iron	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	31-MAR-10 09:47	033110A-1
	Magnesium	5210	ug/L	5000	ug/L	104.2	90.0 – 110.0	P	31-MAR-10 09:47	033110A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2138

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,ICPMS5,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>
	Nickel	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	31-MAR-10 09:47	033110A-1
	Potassium	5030	ug/L	5000	ug/L	100.6	90.0 – 110.0	P	31-MAR-10 09:47	033110A-1
	Selenium	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	31-MAR-10 09:47	033110A-1
	Silver	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 09:47	033110A-1
	Sodium	10100	ug/L	10000	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 09:47	033110A-1
	Vanadium	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	31-MAR-10 09:47	033110A-1
	Zinc	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	31-MAR-10 09:47	033110A-1
	Beryllium	50.1	ug/L	50	ug/L	100.1	90.0 – 110.0	MS	12-APR-10 07:08	100411-2
	Cadmium	51.7	ug/L	50	ug/L	103.4	90.0 – 110.0	MS	12-APR-10 07:08	100411-2
	Lead	52.5	ug/L	50	ug/L	104.9	90.0 – 110.0	MS	12-APR-10 07:08	100411-2
	Manganese	53.9	ug/L	50	ug/L	107.7	90.0 – 110.0	MS	12-APR-10 07:08	100411-2
	Thallium	50.9	ug/L	50	ug/L	101.7	90.0 – 110.0	MS	12-APR-10 07:08	100411-2
	Antimony	52.9	ug/L	50	ug/L	105.8	90.0 – 110.0	MS	13-APR-10 12:31	100413-3
	Uranium	50.4	ug/L	50	ug/L	100.7	90.0 – 110.0	MS	13-APR-10 15:44	100413-5
CCV03	Mercury	5.06	ug/L	5	ug/L	101.1	80.0 – 120.0	AV	02-MAR-10 09:31	030210W3-6
	Beryllium	49.7	ug/L	50	ug/L	99.3	90.0 – 110.0	MS	12-APR-10 08:16	100411-2
	Cadmium	50.9	ug/L	50	ug/L	101.8	90.0 – 110.0	MS	12-APR-10 08:16	100411-2
	Lead	50.6	ug/L	50	ug/L	101.3	90.0 – 110.0	MS	12-APR-10 08:16	100411-2
	Manganese	53.1	ug/L	50	ug/L	106.3	90.0 – 110.0	MS	12-APR-10 08:16	100411-2
	Thallium	49.6	ug/L	50	ug/L	99.3	90.0 – 110.0	MS	12-APR-10 08:16	100411-2
CCV04	Mercury	5.02	ug/L	5	ug/L	100.3	80.0 – 120.0	AV	02-MAR-10 09:54	030210W3-6
CCV05	Mercury	5	ug/L	5	ug/L	99.9	80.0 – 120.0	AV	02-MAR-10 10:17	030210W3-6
CCV06	Mercury	5.06	ug/L	5	ug/L	101.2	80.0 – 120.0	AV	02-MAR-10 10:41	030210W3-6
CCV07	Mercury	5.01	ug/L	5	ug/L	100.3	80.0 – 120.0	AV	02-MAR-10 11:04	030210W3-6

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2138

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,ICPMS5,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>
CCV08	Mercury	5.21	ug/L	5	ug/L	104.3	80.0 – 120.0	AV	02-MAR-10 11:27	030210W3-6
CCV09	Mercury	4.93	ug/L	5	ug/L	98.7	80.0 – 120.0	AV	02-MAR-10 11:50	030210W3-6
CCV10	Mercury	5.01	ug/L	5	ug/L	100.1	80.0 – 120.0	AV	02-MAR-10 12:14	030210W3-6
CCV11	Mercury	4.96	ug/L	5	ug/L	99.2	80.0 – 120.0	AV	02-MAR-10 12:37	030210W3-6
CCV12	Mercury	5.06	ug/L	5	ug/L	101.3	80.0 – 120.0	AV	02-MAR-10 13:00	030210W3-6

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-2138

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: HG3,ICPMS4,ICPMS5,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	.24	ug/L	.2	ug/L	120	70.0 – 130.0	AV	02-MAR-10 08:43	030210W3-6
	Lead	2.3	ug/L	2	ug/L	115.1	70.0 – 130.0	MS	12-APR-10 06:31	100411-2
	Thallium	1.04	ug/L	1	ug/L	104.3	70.0 – 130.0	MS	12-APR-10 06:31	100411-2
	Manganese	6.33	ug/L	5	ug/L	126.5	70.0 – 130.0	MS	12-APR-10 06:31	100411-2
	Cadmium	1.2	ug/L	1	ug/L	120.2	70.0 – 130.0	MS	12-APR-10 06:31	100411-2
	Beryllium	.587	ug/L	.5	ug/L	117.4	70.0 – 130.0	MS	12-APR-10 06:31	100411-2
	Antimony	2.94	ug/L	3	ug/L	98.1	70.0 – 130.0	MS	13-APR-10 11:57	100413-3
	Uranium	.216	ug/L	.2	ug/L	108	70.0 – 130.0	MS	13-APR-10 15:21	100413-5
PQL01										
	Magnesium	326	ug/L	300	ug/L	108.7	70.0 – 130.0	P	31-MAR-10 08:58	033110A-1
	Nickel	5.18	ug/L	5	ug/L	103.5	70.0 – 130.0	P	31-MAR-10 08:58	033110A-1
	Potassium	173	ug/L	150	ug/L	115.2	70.0 – 130.0	P	31-MAR-10 08:58	033110A-1
	Aluminum	207	ug/L	200	ug/L	103.7	70.0 – 130.0	P	31-MAR-10 08:58	033110A-1
	Barium	5.14	ug/L	5	ug/L	102.8	70.0 – 130.0	P	31-MAR-10 08:58	033110A-1
	Cobalt	5.04	ug/L	5	ug/L	100.8	70.0 – 130.0	P	31-MAR-10 08:58	033110A-1
	Vanadium	4.85	ug/L	5	ug/L	96.9	70.0 – 130.0	P	31-MAR-10 08:58	033110A-1
	Calcium	209	ug/L	200	ug/L	104.5	70.0 – 130.0	P	31-MAR-10 08:58	033110A-1
	Selenium	30.4	ug/L	30	ug/L	101.3	70.0 – 130.0	P	31-MAR-10 08:58	033110A-1
	Zinc	10.1	ug/L	10	ug/L	100.8	70.0 – 130.0	P	31-MAR-10 08:58	033110A-1
	Copper	10.1	ug/L	10	ug/L	101	70.0 – 130.0	P	31-MAR-10 08:58	033110A-1
	Chromium	5	ug/L	5	ug/L	100.1	70.0 – 130.0	P	31-MAR-10 08:58	033110A-1
	Iron	105	ug/L	100	ug/L	104.6	70.0 – 130.0	P	31-MAR-10 08:58	033110A-1
	Silver	5.2	ug/L	5	ug/L	104.1	70.0 – 130.0	P	31-MAR-10 08:58	033110A-1
	Sodium	310	ug/L	300	ug/L	103.4	70.0 – 130.0	P	31-MAR-10 08:58	033110A-1
	Arsenic	29.9	ug/L	30	ug/L	99.7	70.0 – 130.0	P	31-MAR-10 08:58	033110A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
ICB01	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 08:41	030210W3-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	31-MAR-10 08:55	033110A-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	31-MAR-10 08:55	033110A-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	31-MAR-10 08:55	033110A-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	31-MAR-10 08:55	033110A-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	31-MAR-10 08:55	033110A-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	31-MAR-10 08:55	033110A-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	31-MAR-10 08:55	033110A-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	31-MAR-10 08:55	033110A-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	31-MAR-10 08:55	033110A-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	31-MAR-10 08:55	033110A-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	31-MAR-10 08:55	033110A-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	31-MAR-10 08:55	033110A-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	31-MAR-10 08:55	033110A-1
	Sodium	100	+/-300	U	100	300	LIQ	P	31-MAR-10 08:55	033110A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	31-MAR-10 08:55	033110A-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	31-MAR-10 08:55	033110A-1
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	12-APR-10 06:25	100411-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	12-APR-10 06:25	100411-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	12-APR-10 06:25	100411-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	12-APR-10 06:25	100411-2
	Thallium	0.362	+/-1	J	0.3	1.0	LIQ	MS	12-APR-10 06:25	100411-2
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	13-APR-10 11:54	100413-3
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	13-APR-10 15:19	100413-5
CCB01	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 08:47	030210W3-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	31-MAR-10 09:19	033110A-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	31-MAR-10 09:19	033110A-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	31-MAR-10 09:19	033110A-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	31-MAR-10 09:19	033110A-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	31-MAR-10 09:19	033110A-1

SW846

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ng/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>
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	31-MAR-10 09:19	033110A-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	31-MAR-10 09:19	033110A-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	31-MAR-10 09:19	033110A-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	31-MAR-10 09:19	033110A-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	31-MAR-10 09:19	033110A-1
	Potassium	60.27	+/-150	J	50.0	150	LIQ	P	31-MAR-10 09:19	033110A-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	31-MAR-10 09:19	033110A-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	31-MAR-10 09:19	033110A-1
	Sodium	100	+/-300	U	100	300	LIQ	P	31-MAR-10 09:19	033110A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	31-MAR-10 09:19	033110A-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	31-MAR-10 09:19	033110A-1
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	12-APR-10 06:56	100411-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	12-APR-10 06:56	100411-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	12-APR-10 06:56	100411-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	12-APR-10 06:56	100411-2
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	12-APR-10 06:56	100411-2
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	13-APR-10 12:07	100413-3
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	13-APR-10 15:27	100413-5
CCB02	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 09:10	030210W3-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	31-MAR-10 09:50	033110A-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	31-MAR-10 09:50	033110A-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	31-MAR-10 09:50	033110A-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	31-MAR-10 09:50	033110A-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	31-MAR-10 09:50	033110A-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	31-MAR-10 09:50	033110A-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	31-MAR-10 09:50	033110A-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	31-MAR-10 09:50	033110A-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	31-MAR-10 09:50	033110A-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	31-MAR-10 09:50	033110A-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	31-MAR-10 09:50	033110A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ng/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>
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	31-MAR-10 09:50	033110A-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	31-MAR-10 09:50	033110A-1
	Sodium	100	+/-300	U	100	300	LIQ	P	31-MAR-10 09:50	033110A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	31-MAR-10 09:50	033110A-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	31-MAR-10 09:50	033110A-1
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	12-APR-10 07:14	100411-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	12-APR-10 07:14	100411-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	12-APR-10 07:14	100411-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	12-APR-10 07:14	100411-2
	Thallium	0.523	+/-1	J	0.3	1.0	LIQ	MS	12-APR-10 07:14	100411-2
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	13-APR-10 12:34	100413-3
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	13-APR-10 15:45	100413-5
CCB03	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 09:33	030210W3-6
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	12-APR-10 08:22	100411-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	12-APR-10 08:22	100411-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	12-APR-10 08:22	100411-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	12-APR-10 08:22	100411-2
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	12-APR-10 08:22	100411-2
CCB04	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 09:56	030210W3-6
CCB05	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 10:19	030210W3-6
CCB06	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 10:42	030210W3-6
CCB07	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 11:06	030210W3-6
CCB08	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 11:29	030210W3-6
CCB09	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 11:52	030210W3-6

SW846

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138

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>
CCB10	Mercury	0.066	+/- .2	U	0.066	0.2	LIQ	AV	02-MAR-10 12:15	030210W3-6
CCB11	Mercury	0.066	+/- .2	U	0.066	0.2	LIQ	AV	02-MAR-10 12:39	030210W3-6
CCB12	Mercury	0.066	+/- .2	U	0.066	0.2	LIQ	AV	02-MAR-10 13:02	030210W3-6

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 10-2138

Contract: LANL01004

Matrix: WATER

<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>
1202056608	Mercury	0.066	ug/L	+/-0.2	U	AV	0.066	0.2
1202056957	Aluminum	68	ug/L	+/-200	U	P	68	200
	Barium	1	ug/L	+/-5	U	P	1	5
	Arsenic	5	ug/L	+/-30	U	P	5	30
	Calcium	50	ug/L	+/-200	U	P	50	200
	Cobalt	1	ug/L	+/-5	U	P	1	5
	Iron	30	ug/L	+/-100	U	P	30	100
	Nickel	1.5	ug/L	+/-5	U	P	1.5	5
	Selenium	5	ug/L	+/-30	U	P	5	30
	Zinc	3.3	ug/L	+/-10	U	P	3.3	10
	Vanadium	1	ug/L	+/-5	U	P	1	5
	Sodium	100	ug/L	+/-300	U	P	100	300
	Silver	1	ug/L	+/-5	U	P	1	5
	Potassium	50	ug/L	+/-150	U	P	50	150
	Magnesium	85	ug/L	+/-300	U	P	85	300
	Copper	3	ug/L	+/-10	U	P	3	10
	Chromium	1	ug/L	+/-5	U	P	1	5
1202056962	Manganese	1	ug/L	+/-5	U	MS	1	5
	Antimony	1	ug/L	+/-3	U	MS	1	3
	Beryllium	0.1	ug/L	+/-0.5	U	MS	0.1	0.5
	Lead	0.896	ug/L	+/-2	J	MS	0.5	2
	Cadmium	0.11	ug/L	+/-1	U	MS	0.11	1
	Thallium	0.3	ug/L	+/-1	U	MS	0.3	1
	Uranium	0.05	ug/L	+/-0.2	U	MS	0.05	0.2

METALS

-4-

Interference Check Sample

SDG No: 10-2138

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>
ICSA01									
	Aluminum	505000	ug/L	500000	ug/L	101	80.0 – 120.0	31-MAR-10 09:00	033110A-1
	Arsenic	8.38	ug/L					31-MAR-10 09:00	033110A-1
	Barium	0.194	ug/L					31-MAR-10 09:00	033110A-1
	Calcium	484000	ug/L	500000	ug/L	96.8	80.0 – 120.0	31-MAR-10 09:00	033110A-1
	Chromium	1.01	ug/L					31-MAR-10 09:00	033110A-1
	Cobalt	-6.3	ug/L					31-MAR-10 09:00	033110A-1
	Copper	4.73	ug/L					31-MAR-10 09:00	033110A-1
	Iron	192000	ug/L	200000	ug/L	95.9	80.0 – 120.0	31-MAR-10 09:00	033110A-1
	Magnesium	489000	ug/L	500000	ug/L	97.7	80.0 – 120.0	31-MAR-10 09:00	033110A-1
	Nickel	3.27	ug/L					31-MAR-10 09:00	033110A-1
	Potassium	-150.0	ug/L					31-MAR-10 09:00	033110A-1
	Selenium	-7.77	ug/L					31-MAR-10 09:00	033110A-1
	Silver	-1.07	ug/L					31-MAR-10 09:00	033110A-1
	Sodium	44.9	ug/L					31-MAR-10 09:00	033110A-1
	Vanadium	-1.19	ug/L					31-MAR-10 09:00	033110A-1
	Zinc	8.88	ug/L					31-MAR-10 09:00	033110A-1
ICSAB01									
	Aluminum	509000	ug/L	500000	ug/L	102	80.0 – 120.0	31-MAR-10 09:02	033110A-1
	Arsenic	544	ug/L	500	ug/L	109	80.0 – 120.0	31-MAR-10 09:02	033110A-1
	Barium	506	ug/L	500	ug/L	101	80.0 – 120.0	31-MAR-10 09:02	033110A-1
	Calcium	487000	ug/L	500000	ug/L	97.4	80.0 – 120.0	31-MAR-10 09:02	033110A-1
	Chromium	491	ug/L	500	ug/L	98.3	80.0 – 120.0	31-MAR-10 09:02	033110A-1
	Cobalt	449	ug/L	500	ug/L	89.8	80.0 – 120.0	31-MAR-10 09:02	033110A-1
	Copper	549	ug/L	500	ug/L	110	80.0 – 120.0	31-MAR-10 09:02	033110A-1
	Iron	193000	ug/L	200000	ug/L	96.6	80.0 – 120.0	31-MAR-10 09:02	033110A-1
	Magnesium	496000	ug/L	500000	ug/L	99.3	80.0 – 120.0	31-MAR-10 09:02	033110A-1
	Nickel	463	ug/L	500	ug/L	92.6	80.0 – 120.0	31-MAR-10 09:02	033110A-1
	Potassium	5560	ug/L	5000	ug/L	111	80.0 – 120.0	31-MAR-10 09:02	033110A-1
	Selenium	2470	ug/L	2500	ug/L	98.8	80.0 – 120.0	31-MAR-10 09:02	033110A-1

METALS

-4-

Interference Check Sample

SDG No: 10-2138

Contract: LANL01004

Lab Code: GEL

ICS:

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Silver	270	ug/L	250	ug/L	108	80.0 – 120.0	31-MAR-10 09:02	033110A-1
	Sodium	5450	ug/L	5000	ug/L	109	80.0 – 120.0	31-MAR-10 09:02	033110A-1
	Vanadium	520	ug/L	500	ug/L	104	80.0 – 120.0	31-MAR-10 09:02	033110A-1
	Zinc	501	ug/L	500	ug/L	100	80.0 – 120.0	31-MAR-10 09:02	033110A-1

METALS
-4-
Interference Check Sample

SDG No: 10-2138

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Beryllium	0.088	ug/L					12-APR-10 06:38	100411-2
	Cadmium	0.189	ug/L					12-APR-10 06:38	100411-2
	Lead	0.209	ug/L					12-APR-10 06:38	100411-2
	Manganese	5.99	ug/L					12-APR-10 06:38	100411-2
	Thallium	-0.142	ug/L					12-APR-10 06:38	100411-2
ICSAB01									
	Beryllium	18.4	ug/L	20	ug/L	92.2	80.0 - 120.0	12-APR-10 06:44	100411-2
	Cadmium	19.0	ug/L	20.44	ug/L	93	80.0 - 120.0	12-APR-10 06:44	100411-2
	Lead	18.8	ug/L	20.19	ug/L	93.3	80.0 - 120.0	12-APR-10 06:44	100411-2
	Manganese	25.9	ug/L	25.8	ug/L	100	80.0 - 120.0	12-APR-10 06:44	100411-2
	Thallium	17.5	ug/L	20	ug/L	87.5	80.0 - 120.0	12-APR-10 06:44	100411-2

METALS
-4-
Interference Check Sample

SDG No: 10-2138

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Antimony	0.265	ug/L					13-APR-10 11:59	100413-3
ICSAB01	Antimony	20.3	ug/L	20	ug/L	101	80.0 - 120.0	13-APR-10 12:02	100413-3

METALS
-4-
Interference Check Sample

SDG No: 10-2138

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Uranium	-0.002	ug/L					13-APR-10 15:22	100413-5
ICSAB01	Uranium	21.0	ug/L	20	ug/L	105	80.0 - 120.0	13-APR-10 15:24	100413-5

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2138

Client ID RE46-10-13544S

Contract: LANL01004

Level: Low

Matrix: WATER

% Solids:

Sample ID: 248257001

Spike ID: 1202056611

<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/L	75-125	2.31		0.066	U	2	114		AV

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2138 Client ID RE46-10-13544S

Contract: LANL01004 Level: Low

Matrix: WATER % Solids:

Sample ID: 248257001 Spike ID: 1202056960

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75-125	488		5	U	500	97.5		P
Barium	ug/L	75-125	485		1	U	500	97.1		P
Calcium	ug/L	75-125	4860		50	U	5000	96.9		P
Chromium	ug/L	75-125	511		1	U	500	102		P
Cobalt	ug/L	75-125	476		1	U	500	95.1		P
Copper	ug/L	75-125	518		3	U	500	103		P
Iron	ug/L	75-125	4790		30	U	5000	95.7		P
Magnesium	ug/L	75-125	4960		85	U	5000	99.1		P
Nickel	ug/L	75-125	517		1.5	U	500	103		P
Potassium	ug/L	75-125	4770		50	U	5000	95.2		P
Selenium	ug/L	75-125	502		5	U	500	100		P
Silver	ug/L	75-125	463		1	U	500	92.7		P
Sodium	ug/L	75-125	4820		100	U	5000	95.6		P
Vanadium	ug/L	75-125	518		1	U	500	104		P
Zinc	ug/L	75-125	499		3.3	U	500	99.5		P
Aluminum	ug/L	75-125	4850		68	U	5000	96.8		P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2138

Client ID RE46-10-13544S

Contract: LANL01004

Level: Low

Matrix: WATER

% Solids:

Sample ID: 248257001

Spike ID: 1202056965

<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>
Antimony	ug/L	75-125	228		1	U	200	114		MS
Beryllium	ug/L	75-125	51.6		0.1	U	50	103		MS
Cadmium	ug/L	75-125	10.8		0.11	U	10	108		MS
Lead	ug/L	75-125	44.2		0.508	J	40	109		MS
Manganese	ug/L	75-125	55.5		1	U	50	110		MS
Thallium	ug/L	75-125	97.7		0.3	U	100	97.7		MS
Uranium	ug/L	75-125	51		0.05	U	50	102		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2138

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE46-10-13544D

Sample ID: 248257001

Duplicate ID: 1202056610

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L		0.066 U		0.066 U				AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2138

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE46-10-13544D

Sample ID: 248257001

Duplicate ID: 1202056959

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L		68 U		68 U				P
Arsenic	ug/L		5 U		5 U				P
Barium	ug/L		1 U		1 U				P
Calcium	ug/L		50 U		50 U				P
Chromium	ug/L		1 U		1 U				P
Cobalt	ug/L		1 U		1 U				P
Copper	ug/L		3 U		3 U				P
Iron	ug/L		30 U		30 U				P
Magnesium	ug/L		85 U		85 U				P
Nickel	ug/L		1.5 U		1.5 U				P
Potassium	ug/L		50 U		50 U				P
Selenium	ug/L		5 U		5 U				P
Silver	ug/L		1 U		1 U				P
Sodium	ug/L		100 U		100 U				P
Vanadium	ug/L		1 U		1 U				P
Zinc	ug/L		3.3 U		3.3 U				P

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2138

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE46-10-13544D

Sample ID: 248257001

Duplicate ID: 1202056964

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Antimony	ug/L		1 U		1 U				MS
Beryllium	ug/L		0.1 U		0.1 U				MS
Cadmium	ug/L		0.11 U		0.11 U				MS
Lead	ug/L		0.508 J		0.5 U		200		MS
Manganese	ug/L		1 U		1 U				MS
Thallium	ug/L		0.3 U		0.3 U				MS
Uranium	ug/L		0.05 U		0.05 U				MS

METALS
-7-
Laboratory Control Sample Summary

SDG NO. 10-2138

Contract: LANL01004

Aqueous LCS Source: GEL

Solid LCS Source:

<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>
1202056609	Mercury	ug/L	2	2.26		113	80-120	AV

METALS
-7-
Laboratory Control Sample Summary

SDG NO. 10-2138

Contract: LANL01004

Aqueous LCS Source: OS2I

Solid LCS Source:

<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>
1202056958								
	Arsenic	ug/L	500	487		97.4	80-120	P
	Barium	ug/L	500	488		97.5	80-120	P
	Calcium	ug/L	5000	4900		98	80-120	P
	Chromium	ug/L	500	505		101	80-120	P
	Cobalt	ug/L	500	476		95.2	80-120	P
	Copper	ug/L	500	511		102	80-120	P
	Iron	ug/L	5000	4810		96.3	80-120	P
	Magnesium	ug/L	5000	5000		100	80-120	P
	Nickel	ug/L	500	512		102	80-120	P
	Potassium	ug/L	5000	4870		97.4	80-120	P
	Selenium	ug/L	500	493		98.6	80-120	P
	Silver	ug/L	500	467		93.3	80-120	P
	Sodium	ug/L	5000	4880		97.5	80-120	P
	Vanadium	ug/L	500	512		102	80-120	P
	Zinc	ug/L	500	495		99	80-120	P
	Aluminum	ug/L	5000	4890		97.9	80-120	P

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-2138

Contract: LANL01004

Aqueous LCS Source: O2si

Solid LCS Source:

<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>
1202056963								
	Antimony	ug/L	50	57.5		115	80-120	MS
	Beryllium	ug/L	50	49.4		98.8	80-120	MS
	Cadmium	ug/L	50	51.7		103	80-120	MS
	Lead	ug/L	50	52.7		105	80-120	MS
	Manganese	ug/L	50	54.9		110	80-120	MS
	Thallium	ug/L	50	46.4		92.8	80-120	MS
	Uranium	ug/L	50	48.9		97.9	80-120	MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-2138 Client ID RE46-10-13544L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 248257001 Serial Dilution ID: 1202056612

<u>Analyte</u>	<u>Initial Value ug/L</u>	<u>C</u>	<u>Serial Value ug/L</u>	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Mercury	.066	U	.33	U				AV

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-2138

Client ID RE46-10-13544L

Contract: LANL01004

Matrix: LIQUID

Level: Low

Sample ID: 248257001

Serial Dilution ID: 1202056961

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	68	U	340	U				P
Arsenic	5	U	25	U				P
Barium	1	U	5	U				P
Calcium	50	U	250	U				P
Chromium	1	U	5	U				P
Cobalt	1	U	5	U				P
Copper	3	U	15	U				P
Iron	30	U	150	U				P
Magnesium	85	U	425	U				P
Nickel	1.5	U	7.5	U				P
Potassium	50	U	250	U				P
Selenium	5	U	25	U				P
Silver	1	U	5	U				P
Sodium	100	U	500	U				P
Vanadium	1	U	5	U				P
Zinc	3.3	U	16.5	U				P

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-2138

Client ID: RE46-10-13544L

Contract: LANL01004

Matrix: LIQUID

Level: Low

Sample ID: 248257001

Serial Dilution ID: 1202056966

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Antimony	1	U	5	U				MS
Beryllium	.1	U	.5	U				MS
Cadmium	.11	U	.55	U				MS
Lead	.508	J	2.5	U	100			MS
Manganese	1	U	5	U				MS
Thallium	.3	U	6.35					MS
Uranium	.05	U	.25	U				MS

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2138

Method Type: P

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number 959140							
1202056957	MB for batch 959140	MB	W	11-MAR-10	50mL	50mL	
1202056958	LCS for batch 959140	LCS	W	11-MAR-10	50mL	50mL	
1202056960	RE46-10-13544S	MS	W	11-MAR-10	50mL	50mL	
1202056959	RE46-10-13544D	DUP	W	11-MAR-10	50mL	50mL	
248245001	RE36-10-8493	SAMPLE	W	11-MAR-10	50mL	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2138

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	959142						
1202056962	MB for batch 959142	MB	W	11-MAR-10	50mL	50mL	
1202056963	LCS for batch 959142	LCS	W	11-MAR-10	50mL	50mL	
1202056965	RE46-10-13544S	MS	W	11-MAR-10	50mL	50mL	
1202056964	RE46-10-13544D	DUP	W	11-MAR-10	50mL	50mL	
248245001	RE36-10-8493	SAMPLE	W	11-MAR-10	50mL	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2138

Method Type: AV

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	958967						
1202056608	MB for batch 958967	MB	W	01-MAR-10	20mL	20mL	
1202056609	LCS for batch 958967	LCS	W	01-MAR-10	20mL	20mL	
1202056611	RE46-10-13544S	MS	W	01-MAR-10	20mL	20mL	
1202056610	RE46-10-13544D	DUP	W	01-MAR-10	20mL	20mL	
248245001	RE36-10-8493	SAMPLE	W	01-MAR-10	20mL	20mL	

SW846

Metals
-14-
Analysis Run Log

Contract: LANL01004**Lab Code:** GEL**Inst Name:** ICPMS5**Start Date:** 13-APR-10**Client Sdg:** 10-2138**Method:** MS**Data File:** 100413-3**End Date:** 13-APR-10

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	11:45:00		X																						
S10	1	11:47:00		X																						
S100	1	11:49:00		X																						
ICV01	1	11:52:00		X																						
ICB01	1	11:54:00		X																						
CRDL01	1	11:57:00		X																						
ICSA01	1	11:59:00		X																						
ICSAB01	1	12:02:00		X																						
CCV01	1	12:04:00		X																						
CCB01	1	12:07:00		X																						
1202056962	1	12:09:00		X																						
1202056963	1	12:12:00		X																						
ZZZZZZ	1	12:14:00																								
248245001	1	12:16:00		X																						
ZZZZZZ	1	12:19:00																								
1202056964	1	12:21:00		X																						
1202056965	1	12:24:00		X																						
1202056966	5	12:26:00		X																						
ZZZZZZ	1	12:29:00																								
CCV02	1	12:31:00		X																						
CCB02	1	12:34:00		X																						

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 13-APR-10

End Date: 13-APR-10

Client Sdg: 10-2138

Method MS

Data File: 100413-5

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	15:12:00																						X		
S10	1	15:14:00																						X		
S100	1	15:16:00																						X		
ICV01	1	15:17:00																						X		
ICB01	1	15:19:00																						X		
CRDL01	1	15:21:00																						X		
ICSA01	1	15:22:00																						X		
ICSAB01	1	15:24:00																						X		
CCV01	1	15:26:00																						X		
CCB01	1	15:27:00																						X		
1202056962	1	15:29:00																						X		
1202056963	1	15:31:00																						X		
ZZZZZZ	1	15:32:00																								
248245001	1	15:34:00																						X		
ZZZZZZ	1	15:35:00																								
1202056964	1	15:37:00																						X		
1202056965	1	15:39:00																						X		
1202056966	5	15:40:00																						X		
ZZZZZZ	1	15:42:00																								
CCV02	1	15:44:00																						X		
CCB02	1	15:45:00																						X		

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: HG3

Start Date: 02-MAR-10

Client Sdg: 10-2138

Method: AV

Data File: 030210W3-6

End Date: 02-MAR-10

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	08:28:00															X									
S0.2	1	08:30:00															X									
S0.5	1	08:31:00															X									
S2.0	1	08:33:00															X									
S5.0	1	08:35:00															X									
S10.0	1	08:37:00															X									
ICV01	1	08:39:00															X									
ICB01	1	08:41:00															X									
CRDL01	1	08:43:00															X									
CCV01	1	08:45:00															X									
CCB01	1	08:47:00															X									
ZZZZZZ	1	08:49:00																								
ZZZZZZ	1	08:51:00																								
ZZZZZZ	1	08:53:00																								
ZZZZZZ	1	08:55:00																								
ZZZZZZ	1	08:57:00																								
ZZZZZZ	5	08:58:00																								
ZZZZZZ	1	09:00:00																								
ZZZZZZ	1	09:02:00																								
ZZZZZZ	1	09:04:00																								
ZZZZZZ	1	09:06:00																								
CCV02	1	09:08:00															X									
CCB02	1	09:10:00															X									
ZZZZZZ	1	09:12:00																								
ZZZZZZ	1	09:14:00																								
ZZZZZZ	1	09:16:00																								
ZZZZZZ	1	09:18:00																								
ZZZZZZ	1	09:20:00																								
ZZZZZZ	1	09:21:00																								
ZZZZZZ	1	09:23:00																								
ZZZZZZ	1	09:25:00																								
ZZZZZZ	5	09:27:00																								
ZZZZZZ	1	09:29:00																								
CCV03	1	09:31:00															X									
CCB03	1	09:33:00															X									
ZZZZZZ	1	09:35:00																								
ZZZZZZ	1	09:37:00																								
ZZZZZZ	1	09:39:00																								
ZZZZZZ	1	09:41:00																								
ZZZZZZ	1	09:43:00																								

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time
ZZZZZZ	1	09:45:00
ZZZZZZ	1	09:47:00
ZZZZZZ	1	09:48:00
ZZZZZZ	1	09:50:00
ZZZZZZ	1	09:52:00
CCV04	1	09:54:00
CCB04	1	09:56:00
ZZZZZZ	1	09:58:00
ZZZZZZ	1	10:00:00
ZZZZZZ	1	10:02:00
ZZZZZZ	5	10:04:00
ZZZZZZ	1	10:06:00
ZZZZZZ	1	10:08:00
ZZZZZZ	1	10:10:00
ZZZZZZ	1	10:12:00
ZZZZZZ	1	10:13:00
ZZZZZZ	1	10:15:00
CCV05	1	10:17:00
CCB05	1	10:19:00
ZZZZZZ	1	10:21:00
ZZZZZZ	1	10:23:00
ZZZZZZ	1	10:25:00
ZZZZZZ	1	10:27:00
ZZZZZZ	1	10:29:00
ZZZZZZ	5	10:31:00
ZZZZZZ	1	10:33:00
ZZZZZZ	1	10:35:00
ZZZZZZ	1	10:37:00
ZZZZZZ	1	10:39:00
CCV06	1	10:41:00
CCB06	1	10:42:00
ZZZZZZ	1	10:44:00
ZZZZZZ	1	10:46:00
ZZZZZZ	1	10:48:00
ZZZZZZ	1	10:50:00
ZZZZZZ	1	10:52:00
ZZZZZZ	1	10:54:00
ZZZZZZ	1	10:56:00
ZZZZZZ	1	10:58:00
ZZZZZZ	1	11:00:00

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	5	11:02:00																								
CCV07	1	11:04:00															X									
CCB07	1	11:06:00															X									
ZZZZZZ	1	11:08:00																								
ZZZZZZ	1	11:09:00																								
ZZZZZZ	1	11:11:00																								
ZZZZZZ	1	11:13:00																								
ZZZZZZ	1	11:15:00																								
ZZZZZZ	1	11:17:00																								
ZZZZZZ	1	11:19:00																								
ZZZZZZ	1	11:21:00																								
ZZZZZZ	1	11:23:00																								
ZZZZZZ	1	11:25:00																								
CCV08	1	11:27:00															X									
CCB08	1	11:29:00															X									
ZZZZZZ	1	11:31:00																								
ZZZZZZ	1	11:33:00																								
ZZZZZZ	1	11:35:00																								
ZZZZZZ	1	11:37:00																								
ZZZZZZ	1	11:39:00																								
ZZZZZZ	1	11:40:00																								
ZZZZZZ	1	11:42:00																								
ZZZZZZ	1	11:44:00																								
ZZZZZZ	1	11:46:00																								
ZZZZZZ	1	11:48:00																								
CCV09	1	11:50:00															X									
CCB09	1	11:52:00															X									
ZZZZZZ	1	11:54:00																								
ZZZZZZ	1	11:56:00																								
ZZZZZZ	1	11:58:00																								
ZZZZZZ	1	12:00:00																								
ZZZZZZ	1	12:02:00																								
ZZZZZZ	1	12:04:00																								
ZZZZZZ	5	12:06:00																								
1202056608	1	12:08:00															X									
1202056609	1	12:10:00															X									
ZZZZZZ	1	12:12:00																								
CCV10	1	12:14:00															X									
CCB10	1	12:15:00															X									
ZZZZZZ	1	12:17:00																								

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time
ZZZZZL	1	12:19:00
ZZZZZL	1	12:21:00
ZZZZZL	1	12:23:00
ZZZZZL	1	12:25:00
ZZZZZL	1	12:27:00
ZZZZZL	1	12:29:00
ZZZZZL	1	12:31:00
ZZZZZL	1	12:33:00
ZZZZZL	1	12:35:00
CCV11	1	12:37:00
CCB11	1	12:39:00
248245001	1	12:41:00
ZZZZZL	1	12:43:00
1202056610	1	12:45:00
1202056611	1	12:47:00
1202056612	5	12:49:00
ZZZZZL	1	12:51:00
ZZZZZL	1	12:53:00
ZZZZZL	1	12:55:00
ZZZZZL	1	12:56:00
ZZZZZL	1	12:58:00
CCV12	1	13:00:00
CCB12	1	13:02:00

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA4

Start Date: 31-MAR-10

Client Sdg: 10-2138

Method P

Data File: 033110A-1

End Date: 31-MAR-10

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	08:43:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
S0.1	1	08:46:00			X	X				X	X	X						X	X	X	X				X	X
S0.5	1	08:48:00	X		X	X			X	X	X	X			X			X	X	X	X				X	X
SCAL	1	08:50:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
S10	1	08:53:00	X						X				X		X							X				
ICV01	1	08:54:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICB01	1	08:55:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
PQL01	1	08:58:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICSA01	1	09:00:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICSAB01	1	09:02:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR01	1	09:03:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR02	1	09:04:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	09:06:00																								
ZZZZZZ	1	09:08:00																								
CCV01	1	09:17:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB01	1	09:19:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
1202056957	1	09:22:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
1202056958	1	09:25:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	09:27:00																								
1202056959	1	09:30:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
1202056960	1	09:33:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
1202056961	5	09:35:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	09:38:00																								
248245001	1	09:41:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	09:44:00																								
CCV02	1	09:47:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB02	1	09:50:00	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: ICPMS4

Start Date: 12-APR-10

End Date: 12-APR-10

Client Sdg: 10-2138

Method: MS

Data File: 100411-2

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	06:01:00					X	X						X		X							X			
S10	1	06:07:00					X	X						X		X							X			
S100	1	06:13:00					X	X						X		X							X			
ICV01	1	06:19:00					X	X						X		X							X			
ICB01	1	06:25:00					X	X						X		X							X			
CRDL01	1	06:31:00					X	X						X		X							X			
ICSA01	1	06:38:00					X	X						X		X							X			
ICSAB01	1	06:44:00					X	X						X		X							X			
CCV01	1	06:50:00					X	X						X		X							X			
CCB01	1	06:56:00					X	X						X		X							X			
LR01	1	07:02:00					X	X						X		X							X			
CCV02	1	07:08:00					X	X						X		X							X			
CCB02	1	07:14:00					X	X						X		X							X			
1202056962	1	07:21:00					X	X						X		X							X			
1202056963	1	07:27:00					X	X						X		X							X			
ZZZZZZ	1	07:33:00																								
248245001	1	07:39:00					X	X						X		X							X			
ZZZZZZ	1	07:46:00																								
1202056964	1	07:52:00					X	X						X		X							X			
1202056965	1	07:58:00					X	X						X		X							X			
1202056966	5	08:04:00					X	X						X		X							X			
ZZZZZZ	1	08:10:00																								
CCV03	1	08:16:00					X	X						X		X							X			
CCB03	1	08:22:00					X	X						X		X							X			

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2138

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP/MS	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
LIQUID	Aluminum		15.0	30
	Antimony		1.0	3
	Arsenic		1.6	5
	Barium		0.6	2
	Beryllium		0.1	.5
	Cadmium		0.11	1
	Calcium		65.0	200
	Chromium		2.0	10
	Cobalt		0.1	1
	Copper		0.33	1
	Iron		33.0	100
	Lead		0.5	2
	Magnesium		5.2	15
	Manganese		1.0	5
	Nickel		0.5	2
	Potassium		80.0	300
	Selenium		1.0	5
	Silver		0.2	1
	Sodium		80.0	250
	Thallium		0.3	1
	Uranium		0.05	.2
	Vanadium		3.0	10
	Zinc		3.0	10

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2138

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

		<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u> <u>ug/L</u>	<u>RDL</u> <u>ug/L</u>
MERCURY	<u>Analyte</u>			
LIQUID	Mercury		0.066	.2

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2138

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP	<u>Analyte</u>	<u>Wavelength</u> (nm)	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
LIQUID	Aluminum	396.153	68.0	200
	Antimony	206.836	3.0	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	50.0	200
	Chromium	267.716	1.0	5
	Cobalt	228.616	1.0	5
	Copper	324.752	3.0	10
	Iron	238.204	30.0	100
	Lead	220.353	3.3	10
	Magnesium	279.077	85.0	300
	Manganese	257.61	2.0	10
	Nickel	231.604	1.5	5
	Potassium	766.49	50.0	150
	Selenium	196.026	5.0	30
	Silver	328.068	1.0	5
	Sodium	589.592	100	300
	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: **10-2138**

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: GEL

GEL Job No: 10-2138

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: **10-2138**

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: 10-2138

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: 10-2138

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: GEL

GEL Job No: 10-2138

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. 10-2138

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS5

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

METALS
-12-
Linear Ranges

SDG NO. 10-2138

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>
Manganese	20	10000	ug/L	01-FEB-10
Nickel	20	10000	ug/L	01-FEB-10
Potassium	20	300000	ug/L	01-FEB-10
Selenium	20	10000	ug/L	01-FEB-10
Silver	20	1000	ug/L	01-FEB-10
Sodium	20	500000	ug/L	01-FEB-10
Thallium	20	10000	ug/L	01-FEB-10
Uranium	20	15000	ug/L	01-FEB-10
Vanadium	20	10000	ug/L	01-FEB-10
Zinc	20	15000	ug/L	01-FEB-10
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

METALS
-12-
Linear Ranges

SDG NO. 10-2138

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS4

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

Raw Data

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Analysis Begun

Start Time: 3/31/2010 8:43:46

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: 033110A

Results Library: C:\pe\optima4\Results\Results.mdb

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Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 3/31/2010 8:43:47

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc RADIAL	149659.0	149659.0	99.8 %	08:44:18
1	Al 396.153Radial†	-74.0	-74.2	[0.00] µg/L	08:44:38
1	Ca 317.933Radial†	671.4	673.0	[0.00] µg/L	08:44:38
1	Fe 238.204 Radial†	126.9	127.2	[0.00] µg/L	08:44:38
1	K 766.490 Radial†	1445.4	1449.0	[0.00] µg/L	08:44:18
1	Mg 279.077 IEC†	168.6	169.0	[0.00] µg/L	08:44:38
1	Na 589.592 Radial†	1117.8	1120.5	[0.00] µg/L	08:44:18
1	Sr 421.552†	-199.0	-199.5	[0.00] µg/L	08:44:18
1	Sc 361.383	1808766.6	1808766.6	100.92 %	08:45:26
1	Y 371.029	1088104.3	1088104.3	100.88 %	08:45:26
1	Ag 328.068†	3990.8	3954.4	[0.00] µg/L	08:45:28
1	As 188.979†	-21.2	-21.0	[0.00] µg/L	08:45:48
1	B 249.677†	3366.0	3335.2	[0.00] µg/L	08:45:28
1	Ba 233.527†	-153.2	-151.8	[0.00] µg/L	08:45:48
1	Be 313.107†	-904.3	-896.1	[0.00] µg/L	08:45:28
1	Cd 226.502†	-114.4	-113.4	[0.00] µg/L	08:45:48
1	Co 228.616†	-180.3	-178.6	[0.00] µg/L	08:45:48
1	Cr 267.716†	173.1	171.5	[0.00] µg/L	08:45:48
1	Cu 324.752†	3060.5	3032.6	[0.00] µg/L	08:45:28
1	Mn 257.610†	210.9	208.9	[0.00] µg/L	08:45:48
1	Mo 202.031†	-40.3	-39.9	[0.00] µg/L	08:45:48
1	Ni 231.604†	-110.6	-109.6	[0.00] µg/L	08:45:48
1	P 214.914†	-36.8	-36.5	[0.00] µg/L	08:45:48
1	Pb 220.353†	67.8	67.2	[0.00] µg/L	08:45:48
1	S 181.975 Axial†	95.1	94.3	[0.00] µg/L	08:45:48
1	Sb 206.836†	84.0	83.2	[0.00] µg/L	08:45:48
1	Se 196.026†	24.8	24.6	[0.00] µg/L	08:45:48
1	SiO2†	1800.2	1783.8	[0.00] µg/L	08:45:48
1	Si 251.611†	978.3	969.4	[0.00] µg/L	08:45:28
1	Sn 189.927†	-6.5	-6.4	[0.00] µg/L	08:45:48
1	Ti 334.940†	1055.4	1045.7	[0.00] µg/L	08:45:28
1	Tl 190.801†	-124.3	-123.1	[0.00] µg/L	08:45:48
1	U 409.014†	-371.9	-368.5	[0.00] µg/L	08:45:28
1	V 292.402†	393.6	390.0	[0.00] µg/L	08:45:28
1	Zn 213.857†	584.3	579.0	[0.00] µg/L	08:45:48
2	Sc RADIAL	149277.7	149277.7	99.5 %	08:44:40
2	Al 396.153Radial†	-64.9	-65.2	[0.00] µg/L	08:45:00
2	Ca 317.933Radial†	608.7	611.7	[0.00] µg/L	08:45:00
2	Fe 238.204 Radial†	145.7	146.4	[0.00] µg/L	08:45:00
2	K 766.490 Radial†	1684.9	1693.3	[0.00] µg/L	08:44:40
2	Mg 279.077 IEC†	167.2	168.0	[0.00] µg/L	08:45:00
2	Na 589.592 Radial†	990.6	995.6	[0.00] µg/L	08:44:40
2	Sr 421.552†	-277.8	-279.2	[0.00] µg/L	08:44:40
2	Sc 361.383	1779001.4	1779001.4	99.260 %	08:45:50
2	Y 371.029	1070661.1	1070661.1	99.267 %	08:45:50
2	Ag 328.068†	4021.6	4051.5	[0.00] µg/L	08:45:52
2	As 188.979†	-6.7	-6.7	[0.00] µg/L	08:46:12

2	B 249.677†	3362.9	3388.0	[0.00]	µg/L	08:45:52
2	Ba 233.527†	-125.2	-126.2	[0.00]	µg/L	08:46:12
2	Be 313.107†	-985.5	-992.8	[0.00]	µg/L	08:45:52
2	Cd 226.502†	-105.3	-106.1	[0.00]	µg/L	08:46:12
2	Co 228.616†	-169.5	-170.8	[0.00]	µg/L	08:46:12
2	Cr 267.716†	183.8	185.1	[0.00]	µg/L	08:46:12
2	Cu 324.752†	2966.6	2988.7	[0.00]	µg/L	08:45:52
2	Mn 257.610†	183.6	184.9	[0.00]	µg/L	08:46:12
2	Mo 202.031†	-37.5	-37.8	[0.00]	µg/L	08:46:12
2	Ni 231.604†	-88.6	-89.2	[0.00]	µg/L	08:46:12
2	P 214.914†	-26.8	-27.0	[0.00]	µg/L	08:46:12
2	Pb 220.353†	65.9	66.4	[0.00]	µg/L	08:46:12
2	S 181.975 Axial†	88.8	89.5	[0.00]	µg/L	08:46:12
2	Sb 206.836†	83.0	83.6	[0.00]	µg/L	08:46:12
2	Se 196.026†	19.2	19.4	[0.00]	µg/L	08:46:12
2	SiO2†	1783.8	1797.1	[0.00]	µg/L	08:46:12
2	Si 251.611†	926.4	933.3	[0.00]	µg/L	08:45:52
2	Sn 189.927†	0.7	0.7	[0.00]	µg/L	08:46:12
2	Ti 334.940†	943.8	950.8	[0.00]	µg/L	08:45:52
2	Tl 190.801†	-117.9	-118.7	[0.00]	µg/L	08:46:12
2	U 409.014†	-307.8	-310.1	[0.00]	µg/L	08:45:52
2	V 292.402†	296.9	299.1	[0.00]	µg/L	08:45:52
2	Zn 213.857†	597.0	601.4	[0.00]	µg/L	08:46:12
3	Sc RADIAL	151144.5	151144.5	101 %		08:45:02
3	Al 396.153Radial†	-83.0	-82.4	[0.00]	µg/L	08:45:22
3	Ca 317.933Radial†	618.8	614.2	[0.00]	µg/L	08:45:22
3	Fe 238.204 Radial†	139.9	138.9	[0.00]	µg/L	08:45:22
3	K 766.490 Radial†	1595.0	1583.2	[0.00]	µg/L	08:45:02
3	Mg 279.077 IEC†	181.0	179.6	[0.00]	µg/L	08:45:22
3	Na 589.592 Radial†	1246.9	1237.6	[0.00]	µg/L	08:45:02
3	Sr 421.552†	-290.2	-288.1	[0.00]	µg/L	08:45:02
3	Sc 361.383	1789002.5	1789002.5	99.818 %		08:46:14
3	Y 371.029	1076950.8	1076950.8	99.850 %		08:46:14
3	Ag 328.068†	3771.6	3778.4	[0.00]	µg/L	08:46:16
3	As 188.979†	-13.6	-13.7	[0.00]	µg/L	08:46:36
3	B 249.677†	3480.5	3486.8	[0.00]	µg/L	08:46:16
3	Ba 233.527†	-136.7	-136.9	[0.00]	µg/L	08:46:36
3	Be 313.107†	-1158.8	-1160.9	[0.00]	µg/L	08:46:16
3	Cd 226.502†	-109.6	-109.8	[0.00]	µg/L	08:46:36
3	Co 228.616†	-165.1	-165.4	[0.00]	µg/L	08:46:36
3	Cr 267.716†	185.1	185.5	[0.00]	µg/L	08:46:36
3	Cu 324.752†	2905.8	2911.1	[0.00]	µg/L	08:46:16
3	Mn 257.610†	185.0	185.3	[0.00]	µg/L	08:46:36
3	Mo 202.031†	-31.5	-31.6	[0.00]	µg/L	08:46:36
3	Ni 231.604†	-93.8	-94.0	[0.00]	µg/L	08:46:36
3	P 214.914†	-6.4	-6.5	[0.00]	µg/L	08:46:36
3	Pb 220.353†	52.0	52.1	[0.00]	µg/L	08:46:36
3	S 181.975 Axial†	92.8	92.9	[0.00]	µg/L	08:46:36
3	Sb 206.836†	75.9	76.1	[0.00]	µg/L	08:46:36
3	Se 196.026†	18.8	18.9	[0.00]	µg/L	08:46:36
3	SiO2†	1761.4	1764.6	[0.00]	µg/L	08:46:36
3	Si 251.611†	879.9	881.5	[0.00]	µg/L	08:46:16
3	Sn 189.927†	-1.7	-1.7	[0.00]	µg/L	08:46:36
3	Ti 334.940†	912.6	914.2	[0.00]	µg/L	08:46:16
3	Tl 190.801†	-108.3	-108.5	[0.00]	µg/L	08:46:36
3	U 409.014†	-276.3	-276.8	[0.00]	µg/L	08:46:16
3	V 292.402†	227.5	227.9	[0.00]	µg/L	08:46:16
3	Zn 213.857†	592.5	593.5	[0.00]	µg/L	08:46:36

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1792256.8	15147.09	0.85%	100.00 %
Sc RADIAL	150027.1	986.34	0.66%	100 %
Y 371.029	1078572.0	8833.87	0.82%	100.00 %
Ag 328.068†	3928.1	138.43	3.52%	[0.00] µg/L
Al 396.153Radial†	-73.9	8.57	11.59%	[0.00] µg/L
As 188.979†	-13.8	7.15	51.81%	[0.00] µg/L
B 249.677†	3403.3	76.94	2.26%	[0.00] µg/L
Ba 233.527†	-138.3	12.85	9.30%	[0.00] µg/L

Be 313.107†	-1016.6	133.98	13.18%	[0.00]	µg/L
Ca 317.933Radial†	633.0	34.70	5.48%	[0.00]	µg/L
Cd 226.502†	-109.8	3.64	3.32%	[0.00]	µg/L
Co 228.616†	-171.6	6.66	3.88%	[0.00]	µg/L
Cr 267.716†	180.7	7.97	4.41%	[0.00]	µg/L
Cu 324.752†	2977.4	61.52	2.07%	[0.00]	µg/L
Fe 238.204 Radial†	137.5	9.68	7.04%	[0.00]	µg/L
K 766.490 Radial†	1575.2	122.39	7.77%	[0.00]	µg/L
Mg 279.077 IEC†	172.2	6.43	3.73%	[0.00]	µg/L
Mn 257.610†	193.1	13.75	7.12%	[0.00]	µg/L
Mo 202.031†	-36.4	4.32	11.87%	[0.00]	µg/L
Na 589.592 Radial†	1117.9	121.05	10.83%	[0.00]	µg/L
Ni 231.604†	-97.6	10.66	10.92%	[0.00]	µg/L
P 214.914†	-23.3	15.35	65.87%	[0.00]	µg/L
Pb 220.353†	61.9	8.51	13.75%	[0.00]	µg/L
S 181.975 Axial†	92.2	2.46	2.66%	[0.00]	µg/L
Sb 206.836†	81.0	4.24	5.23%	[0.00]	µg/L
Se 196.026†	20.9	3.16	15.11%	[0.00]	µg/L
SiO2†	1781.8	16.34	0.92%	[0.00]	µg/L
Si 251.611†	928.1	44.17	4.76%	[0.00]	µg/L
Sn 189.927†	-2.5	3.62	146.05%	[0.00]	µg/L
Sr 421.552†	-255.6	48.78	19.09%	[0.00]	µg/L
Ti 334.940†	970.3	67.87	6.99%	[0.00]	µg/L
Tl 190.801†	-116.8	7.52	6.44%	[0.00]	µg/L
U 409.014†	-318.5	46.42	14.58%	[0.00]	µg/L
V 292.402†	305.7	81.25	26.58%	[0.00]	µg/L
Zn 213.857†	591.3	11.38	1.93%	[0.00]	µg/L

Sequence No.: 2

Sample ID: S0.1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 3/31/2010 8:46:44

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc RADIAL	150831.1	150831.1	101 %		08:47:15
1	K 766.490 Radial†	4035.4	2438.7	[1000] µg/L		08:47:15
1	Sr 421.552†	46130.8	46140.5	[100] µg/L		08:47:15
1	Sc 361.383	1795265.8	1795265.8	100.17 %		08:47:23
1	Y 371.029	1078939.8	1078939.8	100.03 %		08:47:23
1	Ag 328.068†	29977.9	25999.6	[100] µg/L		08:47:25
1	As 188.979†	299.7	313.0	[100] µg/L		08:47:45
1	B 249.677†	9719.2	6299.6	[100] µg/L		08:47:25
1	Ba 233.527†	24158.3	24256.1	[100] µg/L		08:47:25
1	Be 313.107†	343439.1	343880.0	[100] µg/L		08:47:23
1	Cd 226.502†	15256.4	15340.6	[100] µg/L		08:47:25
1	Co 228.616†	7489.1	7648.1	[100] µg/L		08:47:45
1	Cr 267.716†	12561.0	12359.2	[100] µg/L		08:47:25
1	Cu 324.752†	27584.8	24561.2	[100] µg/L		08:47:25
1	Mn 257.610†	80159.0	79831.6	[100] µg/L		08:47:25
1	Mo 202.031†	3135.8	3166.9	[100] µg/L		08:47:45
1	Ni 231.604†	8348.7	8432.3	[100] µg/L		08:47:25
1	P 214.914†	2083.1	2102.9	[500] µg/L		08:47:45
1	Pb 220.353†	1750.2	1685.3	[100] µg/L		08:47:45
1	S 181.975 Axial†	332.3	239.5	[200] µg/L		08:47:45
1	Sb 206.836†	832.0	749.6	[100] µg/L		08:47:45
1	Se 196.026†	280.8	259.4	[100] µg/L		08:47:45
1	SiO2†	12058.1	10256.1	[1069.5] µg/L		08:47:25
1	Si 251.611†	32642.1	31659.3	[500] µg/L		08:47:25
1	Sn 189.927†	1488.6	1488.6	[100] µg/L		08:47:45
1	Ti 334.940†	103076.8	101933.8	[100] µg/L		08:47:25
1	Tl 190.801†	678.7	794.4	[100] µg/L		08:47:45
1	U 409.014†	1409.4	1725.5	[100] µg/L		08:47:25
1	V 292.402†	19596.5	19258.0	[100] µg/L		08:47:25
1	Zn 213.857†	17537.5	16916.7	[100] µg/L		08:47:25
2	Sc RADIAL	152242.2	152242.2	101 %		08:47:17
2	K 766.490 Radial†	3929.0	2296.7	[1000] µg/L		08:47:17
2	Sr 421.552†	46586.1	46163.8	[100] µg/L		08:47:17
2	Sc 361.383	1770151.3	1770151.3	98.767 %		08:47:47
2	Y 371.029	1062909.6	1062909.6	98.548 %		08:47:47
2	Ag 328.068†	29448.5	25888.1	[100] µg/L		08:47:49
2	As 188.979†	298.0	315.6	[100] µg/L		08:48:09
2	B 249.677†	9477.2	6192.2	[100] µg/L		08:47:49
2	Ba 233.527†	23543.1	23975.4	[100] µg/L		08:47:49
2	Be 313.107†	340554.3	345823.8	[100] µg/L		08:47:47
2	Cd 226.502†	14788.6	15083.0	[100] µg/L		08:47:49
2	Co 228.616†	7496.1	7761.4	[100] µg/L		08:48:09
2	Cr 267.716†	12142.9	12113.8	[100] µg/L		08:47:49
2	Cu 324.752†	26906.1	24264.7	[100] µg/L		08:47:49
2	Mn 257.610†	78138.1	78920.8	[100] µg/L		08:47:49
2	Mo 202.031†	3116.5	3191.8	[100] µg/L		08:48:09
2	Ni 231.604†	8225.3	8425.6	[100] µg/L		08:47:49
2	P 214.914†	2085.2	2134.6	[500] µg/L		08:48:09
2	Pb 220.353†	1787.6	1748.0	[100] µg/L		08:48:09
2	S 181.975 Axial†	334.8	246.8	[200] µg/L		08:48:09
2	Sb 206.836†	838.1	767.7	[100] µg/L		08:48:09
2	Se 196.026†	284.6	267.2	[100] µg/L		08:48:09
2	SiO2†	11727.3	10091.9	[1069.5] µg/L		08:47:49
2	Si 251.611†	31871.6	31341.5	[500] µg/L		08:47:49
2	Sn 189.927†	1486.2	1507.2	[100] µg/L		08:48:09
2	Ti 334.940†	100561.0	100846.6	[100] µg/L		08:47:49
2	Tl 190.801†	678.1	803.4	[100] µg/L		08:48:09
2	U 409.014†	1242.2	1576.1	[100] µg/L		08:47:49
2	V 292.402†	19148.7	19082.1	[100] µg/L		08:47:49

2	Zn 213.857†	17217.8	16841.5	[100]	µg/L	08:47:49
3	Sc RADIAL	149830.2	149830.2	99.9	%	08:47:19
3	K 766.490 Radial†	4045.5	2475.7	[1000]	µg/L	08:47:19
3	Sr 421.552†	45809.4	46125.2	[100]	µg/L	08:47:19
3	Sc 361.383	1775612.2	1775612.2	99.071	%	08:48:11
3	Y 371.029	1066163.6	1066163.6	98.850	%	08:48:11
3	Ag 328.068†	29682.6	26032.7	[100]	µg/L	08:48:13
3	As 188.979†	298.7	315.3	[100]	µg/L	08:48:33
3	B 249.677†	9666.2	6353.5	[100]	µg/L	08:48:13
3	Ba 233.527†	23758.6	24119.6	[100]	µg/L	08:48:13
3	Be 313.107†	339937.3	344140.4	[100]	µg/L	08:48:11
3	Cd 226.502†	15062.9	15313.9	[100]	µg/L	08:48:13
3	Co 228.616†	7534.1	7776.3	[100]	µg/L	08:48:33
3	Cr 267.716†	12206.1	12139.8	[100]	µg/L	08:48:13
3	Cu 324.752†	27250.8	24528.8	[100]	µg/L	08:48:13
3	Mn 257.610†	79034.7	79582.6	[100]	µg/L	08:48:13
3	Mo 202.031†	3134.0	3199.8	[100]	µg/L	08:48:33
3	Ni 231.604†	8250.6	8425.5	[100]	µg/L	08:48:13
3	P 214.914†	2107.4	2150.5	[500]	µg/L	08:48:33
3	Pb 220.353†	1759.0	1713.6	[100]	µg/L	08:48:33
3	S 181.975 Axial†	336.4	247.3	[200]	µg/L	08:48:33
3	Sb 206.836†	857.6	784.7	[100]	µg/L	08:48:33
3	Se 196.026†	280.7	262.4	[100]	µg/L	08:48:33
3	SiO2†	11954.9	10285.1	[1069.5]	µg/L	08:48:13
3	Si 251.611†	32134.0	31507.2	[500]	µg/L	08:48:13
3	Sn 189.927†	1497.7	1514.2	[100]	µg/L	08:48:33
3	Ti 334.940†	101603.0	101585.1	[100]	µg/L	08:48:13
3	Tl 190.801†	659.8	782.8	[100]	µg/L	08:48:33
3	U 409.014†	1363.2	1694.5	[100]	µg/L	08:48:13
3	V 292.402†	19375.1	19251.0	[100]	µg/L	08:48:13
3	Zn 213.857†	17255.0	16825.5	[100]	µg/L	08:48:13

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1780343.1	13208.69	0.74%	99.335 %
Sc RADIAL	150967.8	1211.82	0.80%	101 %
Y 371.029	1069337.7	8473.39	0.79%	99.144 %
Ag 328.068†	25973.5	75.75	0.29%	[100] µg/L
As 188.979†	314.6	1.40	0.44%	[100] µg/L
B 249.677†	6281.8	82.08	1.31%	[100] µg/L
Ba 233.527†	24117.0	140.35	0.58%	[100] µg/L
Be 313.107†	344614.7	1055.10	0.31%	[100] µg/L
Cd 226.502†	15245.8	141.61	0.93%	[100] µg/L
Co 228.616†	7728.6	70.08	0.91%	[100] µg/L
Cr 267.716†	12204.3	134.81	1.10%	[100] µg/L
Cu 324.752†	24451.6	162.64	0.67%	[100] µg/L
K 766.490 Radial†	2403.7	94.49	3.93%	[1000] µg/L
Mn 257.610†	79445.0	470.70	0.59%	[100] µg/L
Mo 202.031†	3186.2	17.15	0.54%	[100] µg/L
Ni 231.604†	8427.8	3.91	0.05%	[100] µg/L
P 214.914†	2129.3	24.23	1.14%	[500] µg/L
Pb 220.353†	1715.7	31.40	1.83%	[100] µg/L
S 181.975 Axial†	244.5	4.34	1.78%	[200] µg/L
Sb 206.836†	767.3	17.56	2.29%	[100] µg/L
Se 196.026†	263.0	3.92	1.49%	[100] µg/L
SiO2†	10211.0	104.19	1.02%	[1069.5] µg/L
Si 251.611†	31502.7	158.95	0.50%	[500] µg/L
Sn 189.927†	1503.3	13.24	0.88%	[100] µg/L
Sr 421.552†	46143.2	19.48	0.04%	[100] µg/L
Ti 334.940†	101455.2	555.13	0.55%	[100] µg/L
Tl 190.801†	793.5	10.30	1.30%	[100] µg/L
U 409.014†	1665.4	78.81	4.73%	[100] µg/L
V 292.402†	19197.1	99.59	0.52%	[100] µg/L
Zn 213.857†	16861.2	48.74	0.29%	[100] µg/L

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

Autosampler Location: 3
 Date Collected: 3/31/2010 8:48:41
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc RADIAL	149379.0	149379.0	99.6 %		08:49:12
1	Al 396.153Radial†	25586.2	25771.2	[5000] µg/L		08:49:12
1	Ca 317.933Radial†	84970.8	84706.4	[5000] µg/L		08:49:12
1	K 766.490 Radial†	13832.9	12317.8	[5000] µg/L		08:49:12
1	Mg 279.077 IEC†	12992.8	12877.0	[5000] µg/L		08:49:12
1	Sr 421.552†	227861.9	229106.0	[500] µg/L		08:49:10
1	Sc 361.383	1765930.6	1765930.6	98.531 %		08:49:39
1	Y 371.029	1051067.1	1051067.1	97.450 %		08:49:39
1	Ag 328.068†	128771.4	126763.0	[500] µg/L		08:49:39
1	As 188.979†	1554.6	1591.6	[500] µg/L		08:49:59
1	B 249.677†	34337.9	31446.5	[500] µg/L		08:49:39
1	Ba 233.527†	115647.4	117509.7	[500] µg/L		08:49:39
1	Be 313.107†	1718215.6	1744847.1	[500] µg/L		08:49:39
1	Cd 226.502†	73653.1	74860.9	[500] µg/L		08:49:39
1	Co 228.616†	37444.0	38173.8	[500] µg/L		08:49:39
1	Cr 267.716†	59362.6	60066.8	[500] µg/L		08:49:39
1	Cu 324.752†	121851.7	120690.8	[500] µg/L		08:49:39
1	Mn 257.610†	377852.5	383292.5	[500] µg/L		08:49:39
1	Mo 202.031†	15884.7	16157.9	[500] µg/L		08:49:59
1	Ni 231.604†	40111.5	40807.0	[500] µg/L		08:49:39
1	P 214.914†	10814.4	10999.0	[2500] µg/L		08:49:59
1	Pb 220.353†	8471.8	8536.2	[500] µg/L		08:49:59
1	S 181.975 Axial†	1339.6	1267.4	[1000] µg/L		08:49:59
1	Sb 206.836†	3977.9	3956.2	[500] µg/L		08:49:59
1	Se 196.026†	1305.1	1303.6	[500] µg/L		08:49:59
1	SiO2†	52900.3	51907.1	[5347.5] µg/L		08:49:39
1	Si 251.611†	159822.3	161276.8	[2500] µg/L		08:49:39
1	Sn 189.927†	7476.6	7590.5	[500] µg/L		08:49:59
1	Ti 334.940†	501083.9	507583.7	[500] µg/L		08:49:39
1	Tl 190.801†	3681.2	3852.9	[500] µg/L		08:49:59
1	U 409.014†	6908.9	7330.4	[500] µg/L		08:49:39
1	V 292.402†	94785.4	95892.8	[500] µg/L		08:49:39
1	Zn 213.857†	82476.3	83114.5	[500] µg/L		08:49:39
2	Sc RADIAL	148207.8	148207.8	98.8 %		08:49:16
2	Al 396.153Radial†	25652.7	26041.5	[5000] µg/L		08:49:16
2	Ca 317.933Radial†	84837.8	85246.2	[5000] µg/L		08:49:16
2	K 766.490 Radial†	14089.7	12687.5	[5000] µg/L		08:49:16
2	Mg 279.077 IEC†	12959.1	12945.9	[5000] µg/L		08:49:16
2	Sr 421.552†	225688.2	228714.0	[500] µg/L		08:49:14
2	Sc 361.383	1790055.3	1790055.3	99.877 %		08:50:02
2	Y 371.029	1064621.6	1064621.6	98.707 %		08:50:02
2	Ag 328.068†	130624.8	126857.3	[500] µg/L		08:50:02
2	As 188.979†	1551.5	1567.2	[500] µg/L		08:50:22
2	B 249.677†	35048.9	31688.7	[500] µg/L		08:50:02
2	Ba 233.527†	117767.6	118050.7	[500] µg/L		08:50:02
2	Be 313.107†	1748524.0	1751691.0	[500] µg/L		08:50:02
2	Cd 226.502†	75299.5	75501.9	[500] µg/L		08:50:02
2	Co 228.616†	38037.6	38256.0	[500] µg/L		08:50:02
2	Cr 267.716†	60370.8	60264.3	[500] µg/L		08:50:02
2	Cu 324.752†	123487.2	120661.7	[500] µg/L		08:50:02
2	Mn 257.610†	384103.0	384382.3	[500] µg/L		08:50:02
2	Mo 202.031†	15797.2	15853.1	[500] µg/L		08:50:22
2	Ni 231.604†	40746.3	40894.0	[500] µg/L		08:50:02
2	P 214.914†	10742.3	10778.8	[2500] µg/L		08:50:22
2	Pb 220.353†	8427.9	8376.4	[500] µg/L		08:50:22
2	S 181.975 Axial†	1332.1	1241.5	[1000] µg/L		08:50:22
2	Sb 206.836†	3943.4	3867.3	[500] µg/L		08:50:22
2	Se 196.026†	1296.5	1277.2	[500] µg/L		08:50:22
2	SiO2†	53903.6	52188.1	[5347.5] µg/L		08:50:02

2	Si 251.611†	162723.7	161995.8	[2500]	µg/L	08:50:02
2	Sn 189.927†	7418.1	7429.7	[500]	µg/L	08:50:22
2	Ti 334.940†	508483.1	508138.2	[500]	µg/L	08:50:02
2	Tl 190.801†	3708.0	3829.3	[500]	µg/L	08:50:22
2	U 409.014†	7098.2	7425.4	[500]	µg/L	08:50:02
2	V 292.402†	96265.0	96077.8	[500]	µg/L	08:50:02
2	Zn 213.857†	84053.6	83565.6	[500]	µg/L	08:50:02
3	Sc RADIAL	147993.9	147993.9	98.6	%	08:49:20
3	Al 396.153Radial†	25573.3	25998.6	[5000]	µg/L	08:49:20
3	Ca 317.933Radial†	84375.9	84902.1	[5000]	µg/L	08:49:20
3	K 766.490 Radial†	13918.1	12534.2	[5000]	µg/L	08:49:20
3	Mg 279.077 IEC†	12913.9	12919.1	[5000]	µg/L	08:49:20
3	Sr 421.552†	225905.5	229264.7	[500]	µg/L	08:49:18
3	Sc 361.383	1772403.5	1772403.5	98.892	%	08:50:25
3	Y 371.029	1054621.1	1054621.1	97.779	%	08:50:25
3	Ag 328.068†	129393.3	126914.5	[500]	µg/L	08:50:25
3	As 188.979†	1560.8	1592.1	[500]	µg/L	08:50:46
3	B 249.677†	34661.5	31646.4	[500]	µg/L	08:50:25
3	Ba 233.527†	116729.0	118174.8	[500]	µg/L	08:50:25
3	Be 313.107†	1731034.3	1751440.9	[500]	µg/L	08:50:25
3	Cd 226.502†	74490.0	75434.2	[500]	µg/L	08:50:25
3	Co 228.616†	37692.0	38285.8	[500]	µg/L	08:50:25
3	Cr 267.716†	59925.7	60416.3	[500]	µg/L	08:50:25
3	Cu 324.752†	122618.3	121014.3	[500]	µg/L	08:50:25
3	Mn 257.610†	380992.6	385067.2	[500]	µg/L	08:50:25
3	Mo 202.031†	15880.0	16094.3	[500]	µg/L	08:50:46
3	Ni 231.604†	40491.3	41042.5	[500]	µg/L	08:50:25
3	P 214.914†	10843.0	10987.8	[2500]	µg/L	08:50:46
3	Pb 220.353†	8495.2	8528.5	[500]	µg/L	08:50:46
3	S 181.975 Axial†	1344.1	1266.9	[1000]	µg/L	08:50:46
3	Sb 206.836†	3996.0	3959.8	[500]	µg/L	08:50:46
3	Se 196.026†	1303.9	1297.6	[500]	µg/L	08:50:46
3	SiO2†	53607.4	52426.0	[5347.5]	µg/L	08:50:25
3	Si 251.611†	161209.6	162087.3	[2500]	µg/L	08:50:25
3	Sn 189.927†	7466.1	7552.2	[500]	µg/L	08:50:46
3	Ti 334.940†	504282.2	508960.6	[500]	µg/L	08:50:25
3	Tl 190.801†	3712.5	3870.9	[500]	µg/L	08:50:46
3	U 409.014†	7172.1	7570.9	[500]	µg/L	08:50:25
3	V 292.402†	95506.9	96271.1	[500]	µg/L	08:50:25
3	Zn 213.857†	83161.0	83501.2	[500]	µg/L	08:50:25

Mean Data: \$0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Sc 361.383	1776129.8	12486.57	0.70%	99.100	%
Sc RADIAL	148526.9	745.65	0.50%	99.0	%
Y 371.029	1056770.0	7028.09	0.67%	97.979	%
Ag 328.068†	126845.0	76.52	0.06%	[500]	µg/L
Al 396.153Radial†	25937.1	145.28	0.56%	[5000]	µg/L
As 188.979†	1583.6	14.22	0.90%	[500]	µg/L
B 249.677†	31593.8	129.37	0.41%	[500]	µg/L
Ba 233.527†	117911.7	353.66	0.30%	[500]	µg/L
Be 313.107†	1749326.3	3881.15	0.22%	[500]	µg/L
Ca 317.933Radial†	84951.6	273.26	0.32%	[5000]	µg/L
Cd 226.502†	75265.6	352.18	0.47%	[500]	µg/L
Co 228.616†	38238.5	57.96	0.15%	[500]	µg/L
Cr 267.716†	60249.1	175.21	0.29%	[500]	µg/L
Cu 324.752†	120788.9	195.74	0.16%	[500]	µg/L
K 766.490 Radial†	12513.1	185.77	1.48%	[5000]	µg/L
Mg 279.077 IEC†	12914.0	34.75	0.27%	[5000]	µg/L
Mn 257.610†	384247.3	895.04	0.23%	[500]	µg/L
Mo 202.031†	16035.1	160.80	1.00%	[500]	µg/L
Ni 231.604†	40914.5	119.03	0.29%	[500]	µg/L
P 214.914†	10921.9	124.03	1.14%	[2500]	µg/L
Pb 220.353†	8480.3	90.13	1.06%	[500]	µg/L
S 181.975 Axial†	1258.6	14.78	1.17%	[1000]	µg/L
Sb 206.836†	3927.8	52.41	1.33%	[500]	µg/L
Se 196.026†	1292.8	13.83	1.07%	[500]	µg/L
SiO2†	52173.7	259.77	0.50%	[5347.5]	µg/L
Si 251.611†	161786.6	443.87	0.27%	[2500]	µg/L

Sn 189.927†	7524.1	83.99	1.12%	[500] µg/L
Sr 421.552†	229028.2	283.44	0.12%	[500] µg/L
Ti 334.940†	508227.5	692.78	0.14%	[500] µg/L
Tl 190.801†	3851.0	20.84	0.54%	[500] µg/L
U 409.014†	7442.2	121.13	1.63%	[500] µg/L
V 292.402†	96080.5	189.15	0.20%	[500] µg/L
Zn 213.857†	83393.8	244.00	0.29%	[500] µg/L

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

Autosampler Location: 4
 Date Collected: 3/31/2010 8:50:54
 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	148748.7	148748.7	99.1 %		08:51:25
1	Al 396.153Radial†	51170.1	51683.8	[10000] µg/L		08:51:25
1	Ca 317.933Radial†	168454.2	169269.0	[10000] µg/L		08:51:25
1	Fe 238.204 Radial†	150151.8	151304.7	[10000] µg/L		08:51:25
1	K 766.490 Radial†	26343.9	24995.1	[10000] µg/L		08:51:25
1	Mg 279.077 IEC†	25756.9	25806.1	[10000] µg/L		08:51:25
1	Na 589.592 Radial†	67814.0	67278.9	[10000] µg/L		08:51:25
1	Sr 421.552†	453368.5	457520.5	[1000] µg/L		08:51:23
1	Sc 361.383	1762899.2	1762899.2	98.362 %		08:51:52
1	Y 371.029	1044342.9	1044342.9	96.826 %		08:51:52
1	Ag 328.068†	256251.8	256591.1	[1000] µg/L		08:51:54
1	As 188.979†	3110.5	3176.1	[1000] µg/L		08:52:14
1	B 249.677†	65952.0	63646.9	[1000] µg/L		08:51:54
1	Ba 233.527†	232557.6	236568.7	[1000] µg/L		08:51:54
1	Be 313.107†	3402888.6	3460573.6	[1000] µg/L		08:51:52
1	Cd 226.502†	147842.7	150414.5	[1000] µg/L		08:51:54
1	Co 228.616†	74799.3	76216.5	[1000] µg/L		08:51:54
1	Cr 267.716†	119535.3	121345.2	[1000] µg/L		08:51:54
1	Cu 324.752†	242914.2	243982.0	[1000] µg/L		08:51:54
1	Mn 257.610†	744346.9	756549.5	[1000] µg/L		08:51:52
1	Mo 202.031†	31429.2	31989.0	[1000] µg/L		08:52:14
1	Ni 231.604†	80284.9	81719.5	[1000] µg/L		08:51:54
1	P 214.914†	21363.8	21742.8	[5000] µg/L		08:52:14
1	Pb 220.353†	16543.4	16757.0	[1000] µg/L		08:52:14
1	S 181.975 Axial†	2555.2	2505.5	[2000] µg/L		08:52:14
1	Sb 206.836†	7823.4	7872.7	[1000] µg/L		08:52:14
1	Se 196.026†	2544.4	2565.8	[1000] µg/L		08:52:14
1	SiO2†	102746.2	102675.4	[10695] µg/L		08:51:54
1	Si 251.611†	314059.0	318361.0	[5000] µg/L		08:51:54
1	Sn 189.927†	14775.9	15024.4	[1000] µg/L		08:52:14
1	Ti 334.940†	994117.8	1009702.7	[1000] µg/L		08:51:52
1	Tl 190.801†	7393.8	7633.7	[1000] µg/L		08:52:14
1	U 409.014†	15686.8	16266.5	[1000] µg/L		08:51:54
1	V 292.402†	191393.6	194275.3	[1000] µg/L		08:51:54
1	Zn 213.857†	164442.6	166589.8	[1000] µg/L		08:51:54
2	Sc RADIAL	148381.8	148381.8	98.9 %		08:51:29
2	Al 396.153Radial†	51160.1	51801.3	[10000] µg/L		08:51:29
2	Ca 317.933Radial†	168613.9	169850.5	[10000] µg/L		08:51:29
2	Fe 238.204 Radial†	150106.3	151633.3	[10000] µg/L		08:51:29
2	K 766.490 Radial†	26541.8	25261.0	[10000] µg/L		08:51:29
2	Mg 279.077 IEC†	25758.2	25871.6	[10000] µg/L		08:51:29
2	Na 589.592 Radial†	67966.8	67602.5	[10000] µg/L		08:51:29
2	Sr 421.552†	443935.7	449113.8	[1000] µg/L		08:51:27
2	Sc 361.383	1768187.6	1768187.6	98.657 %		08:52:17
2	Y 371.029	1046483.9	1046483.9	97.025 %		08:52:17
2	Ag 328.068†	254047.5	253577.6	[1000] µg/L		08:52:19
2	As 188.979†	3056.2	3111.6	[1000] µg/L		08:52:39
2	B 249.677†	65336.8	62822.8	[1000] µg/L		08:52:19
2	Ba 233.527†	230214.6	233486.6	[1000] µg/L		08:52:19
2	Be 313.107†	3419671.5	3467237.9	[1000] µg/L		08:52:17
2	Cd 226.502†	146015.0	148112.3	[1000] µg/L		08:52:19
2	Co 228.616†	74085.9	75266.0	[1000] µg/L		08:52:19
2	Cr 267.716†	118088.5	119515.2	[1000] µg/L		08:52:19
2	Cu 324.752†	240497.7	240794.0	[1000] µg/L		08:52:19
2	Mn 257.610†	749179.8	759184.8	[1000] µg/L		08:52:17
2	Mo 202.031†	31127.7	31587.8	[1000] µg/L		08:52:39
2	Ni 231.604†	79506.6	80686.5	[1000] µg/L		08:52:19
2	P 214.914†	21133.3	21444.3	[5000] µg/L		08:52:39
2	Pb 220.353†	16375.6	16536.6	[1000] µg/L		08:52:39

2	S 181.975 Axial†	2524.0	2466.1	[2000]	µg/L	08:52:39
2	Sb 206.836†	7757.9	7782.5	[1000]	µg/L	08:52:39
2	Se 196.026†	2518.0	2531.3	[1000]	µg/L	08:52:39
2	SiO2†	101688.7	101291.1	[10695]	µg/L	08:52:19
2	Si 251.611†	310977.5	314282.5	[5000]	µg/L	08:52:19
2	Sn 189.927†	14603.5	14804.8	[1000]	µg/L	08:52:39
2	Ti 334.940†	999702.8	1012340.9	[1000]	µg/L	08:52:17
2	Tl 190.801†	7341.0	7557.7	[1000]	µg/L	08:52:39
2	U 409.014†	15809.9	16343.6	[1000]	µg/L	08:52:19
2	V 292.402†	189539.2	191813.6	[1000]	µg/L	08:52:19
2	Zn 213.857†	163137.7	164767.1	[1000]	µg/L	08:52:19
3	Sc RADIAL	149198.9	149198.9	99.4	%	08:51:34
3	Al 396.153Radial†	51585.0	51945.3	[10000]	µg/L	08:51:34
3	Ca 317.933Radial†	170226.3	170538.2	[10000]	µg/L	08:51:34
3	Fe 238.204 Radial†	151619.1	152323.2	[10000]	µg/L	08:51:34
3	K 766.490 Radial†	26517.5	25089.6	[10000]	µg/L	08:51:34
3	Mg 279.077 IEC†	25875.4	25846.8	[10000]	µg/L	08:51:34
3	Na 589.592 Radial†	68500.0	67762.3	[10000]	µg/L	08:51:34
3	Sr 421.552†	448196.1	450939.6	[1000]	µg/L	08:51:32
3	Sc 361.383	1754313.8	1754313.8	97.883	%	08:52:42
3	Y 371.029	1037656.0	1037656.0	96.206	%	08:52:42
3	Ag 328.068†	254875.1	256459.6	[1000]	µg/L	08:52:44
3	As 188.979†	3094.3	3175.0	[1000]	µg/L	08:53:04
3	B 249.677†	65718.3	63736.3	[1000]	µg/L	08:52:44
3	Ba 233.527†	230793.8	235923.8	[1000]	µg/L	08:52:44
3	Be 313.107†	3407192.3	3481901.0	[1000]	µg/L	08:52:42
3	Cd 226.502†	146605.1	149885.7	[1000]	µg/L	08:52:44
3	Co 228.616†	74185.7	75961.8	[1000]	µg/L	08:52:44
3	Cr 267.716†	118380.2	120759.9	[1000]	µg/L	08:52:44
3	Cu 324.752†	241120.6	243358.2	[1000]	µg/L	08:52:44
3	Mn 257.610†	746476.7	762428.8	[1000]	µg/L	08:52:42
3	Mo 202.031†	31351.6	32066.1	[1000]	µg/L	08:53:04
3	Ni 231.604†	79575.1	81393.8	[1000]	µg/L	08:52:44
3	P 214.914†	21265.1	21748.3	[5000]	µg/L	08:53:04
3	Pb 220.353†	16578.0	16874.6	[1000]	µg/L	08:53:04
3	S 181.975 Axial†	2548.1	2511.0	[2000]	µg/L	08:53:04
3	Sb 206.836†	7814.9	7903.0	[1000]	µg/L	08:53:04
3	Se 196.026†	2550.7	2584.9	[1000]	µg/L	08:53:04
3	SiO2†	102125.4	102552.4	[10695]	µg/L	08:52:44
3	Si 251.611†	311969.2	317788.5	[5000]	µg/L	08:52:44
3	Sn 189.927†	14699.3	15019.7	[1000]	µg/L	08:53:04
3	Ti 334.940†	995301.4	1015857.9	[1000]	µg/L	08:52:42
3	Tl 190.801†	7397.1	7673.8	[1000]	µg/L	08:53:04
3	U 409.014†	15919.3	16582.0	[1000]	µg/L	08:52:44
3	V 292.402†	190091.9	193897.6	[1000]	µg/L	08:52:44
3	Zn 213.857†	163532.7	166478.3	[1000]	µg/L	08:52:44

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1761800.2	7001.87	0.40%	98.301	%
Sc RADIAL	148776.4	409.25	0.28%	99.2	%
Y 371.029	1042827.6	4604.86	0.44%	96.686	%
Ag 328.068†	255542.8	1703.14	0.67%	[1000]	µg/L
Al 396.153Radial†	51810.1	130.97	0.25%	[10000]	µg/L
As 188.979†	3154.2	36.94	1.17%	[1000]	µg/L
B 249.677†	63402.0	503.59	0.79%	[1000]	µg/L
Ba 233.527†	235326.4	1625.55	0.69%	[1000]	µg/L
Be 313.107†	3469904.2	10910.83	0.31%	[1000]	µg/L
Ca 317.933Radial†	169885.9	635.36	0.37%	[10000]	µg/L
Cd 226.502†	149470.8	1205.84	0.81%	[1000]	µg/L
Co 228.616†	75814.7	492.02	0.65%	[1000]	µg/L
Cr 267.716†	120540.1	934.58	0.78%	[1000]	µg/L
Cu 324.752†	242711.4	1689.57	0.70%	[1000]	µg/L
Fe 238.204 Radial†	151753.7	519.81	0.34%	[10000]	µg/L
K 766.490 Radial†	25115.2	134.77	0.54%	[10000]	µg/L
Mg 279.077 IEC†	25841.5	33.09	0.13%	[10000]	µg/L
Mn 257.610†	759387.7	2944.90	0.39%	[1000]	µg/L
Mo 202.031†	31881.0	256.80	0.81%	[1000]	µg/L
Na 589.592 Radial†	67547.9	246.30	0.36%	[10000]	µg/L

Ni 231.604†	81266.6	528.12	0.65%	[1000] µg/L
P 214.914†	21645.2	173.95	0.80%	[5000] µg/L
Pb 220.353†	16722.8	171.59	1.03%	[1000] µg/L
S 181.975 Axial†	2494.2	24.50	0.98%	[2000] µg/L
Sb 206.836†	7852.7	62.68	0.80%	[1000] µg/L
Se 196.026†	2560.7	27.18	1.06%	[1000] µg/L
SiO2†	102173.0	766.22	0.75%	[10695] µg/L
Si 251.611†	316810.7	2208.05	0.70%	[5000] µg/L
Sn 189.927†	14949.6	125.48	0.84%	[1000] µg/L
Sr 421.552†	452524.6	4421.81	0.98%	[1000] µg/L
Ti 334.940†	1012633.8	3088.06	0.30%	[1000] µg/L
Tl 190.801†	7621.7	58.99	0.77%	[1000] µg/L
U 409.014†	16397.4	164.50	1.00%	[1000] µg/L
V 292.402†	193328.8	1325.76	0.69%	[1000] µg/L
Zn 213.857†	165945.1	1021.66	0.62%	[1000] µg/L

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

Autosampler Location: 5
 Date Collected: 3/31/2010 8:53:12
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc RADIAL	147084.6	147084.6	98.0 %		08:53:41
1	Al 396.153Radial†	248919.9	253973.5	[50000] µg/L		08:53:41
1	Ca 317.933Radial†	821798.3	837605.4	[50000] µg/L		08:53:41
1	Fe 238.204 Radial†	295796.6	301576.5	[20000] µg/L		08:53:41
1	Mg 279.077 IEC†	123088.9	125379.1	[50000] µg/L		08:53:41
1	Na 589.592 Radial†	134043.5	135607.1	[20000] µg/L		08:53:41
1	Sc 361.383	1721419.1	1721419.1	96.048 %		08:53:49
1	Y 371.029	1020186.5	1020186.5	94.587 %		08:53:49
2	Sc RADIAL	147158.7	147158.7	98.1 %		08:53:43
2	Al 396.153Radial†	248290.2	253203.7	[50000] µg/L		08:53:43
2	Ca 317.933Radial†	816382.3	831661.8	[50000] µg/L		08:53:43
2	Fe 238.204 Radial†	294279.2	299877.6	[20000] µg/L		08:53:43
2	Mg 279.077 IEC†	122198.2	124407.8	[50000] µg/L		08:53:43
2	Na 589.592 Radial†	132756.9	134226.6	[20000] µg/L		08:53:43
2	Sc 361.383	1710078.5	1710078.5	95.415 %		08:53:52
2	Y 371.029	1012755.8	1012755.8	93.898 %		08:53:52
3	Sc RADIAL	146036.7	146036.7	97.3 %		08:53:45
3	Al 396.153Radial†	250009.8	256915.1	[50000] µg/L		08:53:45
3	Ca 317.933Radial†	822271.1	844106.1	[50000] µg/L		08:53:45
3	Fe 238.204 Radial†	296030.4	303981.7	[20000] µg/L		08:53:45
3	Mg 279.077 IEC†	122911.6	126097.9	[50000] µg/L		08:53:45
3	Na 589.592 Radial†	133716.0	136251.8	[20000] µg/L		08:53:45
3	Sc 361.383	1708052.8	1708052.8	95.302 %		08:53:54
3	Y 371.029	1011466.2	1011466.2	93.778 %		08:53:54

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sc 361.383	1713183.5	7203.85	0.42%	95.588 %	
Sc RADIAL	146760.0	627.50	0.43%	97.8 %	
Y 371.029	1014802.8	4706.79	0.46%	94.088 %	
Al 396.153Radial†	254697.5	1958.71	0.77%	[50000] µg/L	
Ca 317.933Radial†	837791.1	6224.22	0.74%	[50000] µg/L	
Fe 238.204 Radial†	301812.0	2062.14	0.68%	[20000] µg/L	
Mg 279.077 IEC†	125294.9	848.16	0.68%	[50000] µg/L	
Na 589.592 Radial†	135361.8	1034.65	0.76%	[20000] µg/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	255.2	0.00000	0.999995	
Al 396.153Radial	3	Lin Thru 0	0.0	5.098	0.00000	0.999993	
As 188.979	3	Lin Thru 0	0.0	3.157	0.00000	0.999999	
B 249.677	3	Lin Thru 0	0.0	63.35	0.00000	0.999999	
Ba 233.527	3	Lin Thru 0	0.0	235.5	0.00000	0.999997	
Be 313.107	3	Lin Thru 0	0.0	3475	0.00000	0.999994	
Ca 317.933Radial	3	Lin Thru 0	0.0	16.77	0.00000	0.999996	
Cd 226.502	3	Lin Thru 0	0.0	149.7	0.00000	0.999995	
Co 228.616	3	Lin Thru 0	0.0	75.96	0.00000	0.999993	
Cr 267.716	3	Lin Thru 0	0.0	120.5	0.00000	0.999999	
Cu 324.752	3	Lin Thru 0	0.0	242.5	0.00000	0.999998	
Fe 238.204 Radia	2	Lin Thru 0	0.0	15.11	0.00000	0.999997	
K 766.490 Radial	3	Lin Thru 0	0.0	2.509	0.00000	0.999992	
Mg 279.077 IEC	3	Lin Thru 0	0.0	2.510	0.00000	0.999978	
Mn 257.610	3	Lin Thru 0	0.0	761.5	0.00000	0.999981	
Mo 202.031	3	Lin Thru 0	0.0	31.92	0.00000	0.999997	
Na 589.592 Radia	2	Lin Thru 0	0.0	6.765	0.00000	1.000000	

Ni 231.604	3	Lin Thru 0	0.0	81.40	0.00000	0.999991
P 214.914	3	Lin Thru 0	0.0	4.336	0.00000	0.999992
Pb 220.353	3	Lin Thru 0	0.0	16.77	0.00000	0.999982
S 181.975 Axial	3	Lin Thru 0	0.0	1.249	0.00000	0.999991
Sb 206.836	3	Lin Thru 0	0.0	7.852	0.00000	0.999998
Se 196.026	3	Lin Thru 0	0.0	2.566	0.00000	0.999990
SiO2	3	Lin Thru 0	0.0	9.594	0.00000	0.999964
Si 251.611	3	Lin Thru 0	0.0	63.63	0.00000	0.999964
Sn 189.927	3	Lin Thru 0	0.0	14.97	0.00000	0.999996
Sr 421.552	3	Lin Thru 0	0.0	453.7	0.00000	0.999987
Ti 334.940	3	Lin Thru 0	0.0	1013	0.00000	0.999999
Tl 190.801	3	Lin Thru 0	0.0	7.640	0.00000	0.999985
U 409.014	3	Lin Thru 0	0.0	16.10	0.00000	0.999295
V 292.402	3	Lin Thru 0	0.0	193.1	0.00000	0.999997
Zn 213.857	3	Lin Thru 0	0.0	166.1	0.00000	0.999997

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 3/31/2010 8:54:02

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	149423.2	149423.2	99.6 %		08:54:34
1	Al 396.153Radial†	26685.0	26866.8	5244.1 µg/L	5244.1 ppb	08:54:34
1	Ca 317.933Radial†	86534.1	86250.9	5144.1 µg/L	5144.1 ppb	08:54:34
1	Fe 238.204 Radial†	77699.5	77876.0	5154.8 µg/L	5154.8 ppb	08:54:34
1	K 766.490 Radial†	7867.2	6323.8	2517.6 µg/L	2517.6 ppb	08:54:34
1	Mg 279.077 IEC†	13680.6	13563.7	5413.9 µg/L	5413.9 ppb	08:54:34
1	Na 589.592 Radial†	18227.0	17182.7	2537.5 µg/L	2537.5 ppb	08:54:34
1	Sr 421.552†	243534.2	244773.9	539.47 µg/L	539.47 ppb	08:54:32
1	Sc 361.383	1760650.5	1760650.5	98.237 %		08:54:47
1	Y 371.029	1051232.3	1051232.3	97.465 %		08:54:47
1	Ag 328.068†	69278.4	66593.9	267.47 µg/L	267.47 ppb	08:54:47
1	As 188.979†	1502.4	1543.2	496.37 µg/L	496.37 ppb	08:54:49
1	B 249.677†	36002.8	33245.7	522.94 µg/L	522.94 ppb	08:54:47
1	Ba 233.527†	120355.0	122653.8	521.33 µg/L	521.33 ppb	08:54:47
1	Be 313.107†	914266.3	931695.3	268.23 µg/L	268.23 ppb	08:54:47
1	Cd 226.502†	75126.7	76585.1	511.28 µg/L	511.28 ppb	08:54:47
1	Co 228.616†	38836.4	39705.2	523.06 µg/L	523.06 ppb	08:54:49
1	Cr 267.716†	59851.1	60744.8	503.77 µg/L	503.77 ppb	08:54:49
1	Cu 324.752†	127386.5	126695.8	524.06 µg/L	524.06 ppb	08:54:47
1	Mn 257.610†	398138.7	405092.8	531.76 µg/L	531.76 ppb	08:54:47
1	Mo 202.031†	17419.9	17769.1	557.18 µg/L	557.18 ppb	08:54:49
1	Ni 231.604†	41648.2	42493.4	522.02 µg/L	522.02 ppb	08:54:49
1	P 214.914†	11104.3	11327.0	2603.0 µg/L	2603.0 ppb	08:54:49
1	Pb 220.353†	8683.6	8777.6	525.13 µg/L	525.13 ppb	08:54:49
1	S 181.975 Axial†	3239.8	3205.7	2570.9 µg/L	2570.9 ppb	08:54:49
1	Sb 206.836†	4038.4	4030.0	515.25 µg/L	515.25 ppb	08:54:49
1	Se 196.026†	6571.6	6668.7	2600 µg/L	2600 ppb	08:54:49
1	SiO2†	102374.2	102430.2	10653 µg/L	10653 ppb	08:54:47
1	Si 251.611†	312204.0	316880.4	4969.2 µg/L	4969.2 ppb	08:54:47
1	Sn 189.927†	8106.1	8254.1	553.09 µg/L	553.09 ppb	08:54:49
1	Ti 334.940†	506402.4	514522.8	507.04 µg/L	507.04 ppb	08:54:47
1	Tl 190.801†	3973.7	4161.8	552.40 µg/L	552.40 ppb	08:54:49
1	U 409.014†	7296.3	7745.7	512.90 µg/L	512.90 ppb	08:54:47
1	V 292.402†	98727.2	100193.8	526.14 µg/L	526.14 ppb	08:54:47
1	Zn 213.857†	86030.5	86983.6	519.41 µg/L	519.41 ppb	08:54:47
2	Sc RADIAL	150108.5	150108.5	100 %		08:54:38
2	Al 396.153Radial†	26793.1	26852.5	5241.7 µg/L	5241.7 ppb	08:54:38
2	Ca 317.933Radial†	87179.9	86499.6	5158.9 µg/L	5158.9 ppb	08:54:38
2	Fe 238.204 Radial†	78361.8	78181.7	5175.0 µg/L	5175.0 ppb	08:54:38
2	K 766.490 Radial†	7962.2	6382.7	2541.0 µg/L	2541.0 ppb	08:54:38
2	Mg 279.077 IEC†	13924.5	13744.7	5485.8 µg/L	5485.8 ppb	08:54:38
2	Na 589.592 Radial†	18575.7	17447.7	2576.7 µg/L	2576.7 ppb	08:54:38
2	Sr 421.552†	240639.7	240764.7	530.64 µg/L	530.64 ppb	08:54:36
2	Sc 361.383	1776122.2	1776122.2	99.100 %		08:54:52
2	Y 371.029	1059169.1	1059169.1	98.201 %		08:54:52
2	Ag 328.068†	69790.7	66496.5	267.08 µg/L	267.08 ppb	08:54:52
2	As 188.979†	1503.0	1530.5	492.27 µg/L	492.27 ppb	08:54:54
2	B 249.677†	36611.5	33540.7	527.60 µg/L	527.60 ppb	08:54:52
2	Ba 233.527†	121925.1	123170.9	523.52 µg/L	523.52 ppb	08:54:52
2	Be 313.107†	925455.9	934879.5	269.14 µg/L	269.14 ppb	08:54:52
2	Cd 226.502†	76174.5	76976.3	513.89 µg/L	513.89 ppb	08:54:52
2	Co 228.616†	38900.9	39425.9	519.39 µg/L	519.39 ppb	08:54:54
2	Cr 267.716†	59554.4	59914.7	496.90 µg/L	496.90 ppb	08:54:54
2	Cu 324.752†	128890.7	127084.2	525.65 µg/L	525.65 ppb	08:54:52
2	Mn 257.610†	402388.2	405850.5	532.75 µg/L	532.75 ppb	08:54:52
2	Mo 202.031†	17237.5	17430.5	546.58 µg/L	546.58 ppb	08:54:54
2	Ni 231.604†	41290.0	41762.7	513.04 µg/L	513.04 ppb	08:54:54
2	P 214.914†	11040.9	11164.5	2565.6 µg/L	2565.6 ppb	08:54:54
2	Pb 220.353†	8628.2	8644.7	517.19 µg/L	517.19 ppb	08:54:54

2	S 181.975 Axial†	3235.0	3172.2	2544.0 µg/L	2544.0 ppb	08:54:54
2	Sb 206.836†	4036.0	3991.7	510.32 µg/L	510.32 ppb	08:54:54
2	Se 196.026†	6524.6	6562.9	2560 µg/L	2560 ppb	08:54:54
2	SiO2†	103430.3	102588.0	10670 µg/L	10670 ppb	08:54:52
2	Si 251.611†	315881.4	317822.8	4984.2 µg/L	4984.2 ppb	08:54:52
2	Sn 189.927†	8060.7	8136.4	545.24 µg/L	545.24 ppb	08:54:54
2	Ti 334.940†	511927.5	515607.7	508.12 µg/L	508.12 ppb	08:54:54
2	Tl 190.801†	4017.6	4170.9	553.64 µg/L	553.64 ppb	08:54:54
2	U 409.014†	7012.8	7394.9	491.22 µg/L	491.22 ppb	08:54:52
2	V 292.402†	99903.8	100505.7	527.60 µg/L	527.60 ppb	08:54:52
2	Zn 213.857†	87309.9	87511.7	522.65 µg/L	522.65 ppb	08:54:52
3	Sc RADIAL	150818.5	150818.5	101 %		08:54:42
3	Al 396.153Radial†	26764.8	26698.3	5211.2 µg/L	5211.2 ppb	08:54:42
3	Ca 317.933Radial†	87295.5	86204.5	5141.3 µg/L	5141.3 ppb	08:54:42
3	Fe 238.204 Radial†	78325.3	77776.7	5148.2 µg/L	5148.2 ppb	08:54:42
3	K 766.490 Radial†	7886.2	6269.6	2496.0 µg/L	2496.0 ppb	08:54:42
3	Mg 279.077 IEC†	13949.0	13703.6	5469.5 µg/L	5469.5 ppb	08:54:42
3	Na 589.592 Radial†	18685.9	17469.9	2580.0 µg/L	2580.0 ppb	08:54:42
3	Sr 421.552†	240823.2	239815.1	528.54 µg/L	528.54 ppb	08:54:40
3	Sc 361.383	1756601.1	1756601.1	98.011 %		08:54:57
3	Y 371.029	1047343.1	1047343.1	97.105 %		08:54:57
3	Ag 328.068†	68904.4	66374.9	266.57 µg/L	266.57 ppb	08:54:57
3	As 188.979†	1485.6	1529.6	492.06 µg/L	492.06 ppb	08:54:59
3	B 249.677†	35848.2	33172.5	521.78 µg/L	521.78 ppb	08:54:57
3	Ba 233.527†	119504.5	122068.5	518.84 µg/L	518.84 ppb	08:54:57
3	Be 313.107†	907680.8	927121.6	266.91 µg/L	266.91 ppb	08:54:57
3	Cd 226.502†	74656.9	76282.1	509.26 µg/L	509.26 ppb	08:54:57
3	Co 228.616†	38723.5	39681.1	522.74 µg/L	522.74 ppb	08:54:59
3	Cr 267.716†	59662.8	60693.1	503.35 µg/L	503.35 ppb	08:54:59
3	Cu 324.752†	126468.0	126057.7	521.42 µg/L	521.42 ppb	08:54:57
3	Mn 257.610†	395003.4	402828.2	528.78 µg/L	528.78 ppb	08:54:57
3	Mo 202.031†	17232.1	17618.3	552.46 µg/L	552.46 ppb	08:54:59
3	Ni 231.604†	41172.9	42106.2	517.26 µg/L	517.26 ppb	08:54:59
3	P 214.914†	10914.9	11159.7	2564.5 µg/L	2564.5 ppb	08:54:59
3	Pb 220.353†	8654.3	8768.1	524.55 µg/L	524.55 ppb	08:54:59
3	S 181.975 Axial†	3234.3	3207.7	2572.5 µg/L	2572.5 ppb	08:54:59
3	Sb 206.836†	4045.0	4046.2	517.25 µg/L	517.25 ppb	08:54:59
3	Se 196.026†	6551.7	6663.8	2600 µg/L	2600 ppb	08:54:59
3	SiO2†	101512.0	101790.7	10587 µg/L	10587 ppb	08:54:57
3	Si 251.611†	309506.8	314861.1	4937.5 µg/L	4937.5 ppb	08:54:57
3	Sn 189.927†	8066.5	8232.7	551.66 µg/L	551.66 ppb	08:54:59
3	Ti 334.940†	503581.2	512832.7	505.38 µg/L	505.38 ppb	08:54:57
3	Tl 190.801†	4002.1	4200.2	557.38 µg/L	557.38 ppb	08:54:59
3	U 409.014†	7077.2	7539.3	499.94 µg/L	499.94 ppb	08:54:57
3	V 292.402†	98096.5	99782.0	523.95 µg/L	523.95 ppb	08:54:57
3	Zn 213.857†	85382.2	86524.0	516.68 µg/L	516.68 ppb	08:54:57

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1764457.9	98.449 %	0.5748			0.58%
Sc RADIAL	150116.8	100 %	0.5			0.46%
Y 371.029	1052581.5	97.590 %	0.5588			0.57%
Ag 328.068†	66488.5	267.04 µg/L	0.451	267.04 ppb	0.451	0.17%
QC value within limits for Ag 328.068 Recovery = 106.82%						
Al 396.153Radial†	26805.9	5232.3 µg/L	18.33	5232.3 ppb	18.33	0.35%
QC value within limits for Al 396.153Radial Recovery = 104.65%						
As 188.979†	1534.4	493.57 µg/L	2.432	493.57 ppb	2.432	0.49%
QC value within limits for As 188.979 Recovery = 98.71%						
B 249.677†	33319.6	524.11 µg/L	3.083	524.11 ppb	3.083	0.59%
QC value within limits for B 249.677 Recovery = 104.82%						
Ba 233.527†	122631.1	521.23 µg/L	2.343	521.23 ppb	2.343	0.45%
QC value within limits for Ba 233.527 Recovery = 104.25%						
Be 313.107†	931232.2	268.09 µg/L	1.121	268.09 ppb	1.121	0.42%
QC value within limits for Be 313.107 Recovery = 107.24%						
Ca 317.933Radial†	86318.3	5148.1 µg/L	9.46	5148.1 ppb	9.46	0.18%
QC value within limits for Ca 317.933Radial Recovery = 102.96%						
Cd 226.502†	76614.5	511.48 µg/L	2.322	511.48 ppb	2.322	0.45%
QC value within limits for Cd 226.502 Recovery = 102.30%						
Co 228.616†	39604.1	521.73 µg/L	2.037	521.73 ppb	2.037	0.39%

QC value within limits for Co 228.616 Recovery = 104.35%							
Cr 267.716†	60450.9	501.34 µg/L	3.850	501.34 ppb	3.850	0.77%	
QC value within limits for Cr 267.716 Recovery = 100.27%							
Cu 324.752†	126612.6	523.71 µg/L	2.136	523.71 ppb	2.136	0.41%	
QC value within limits for Cu 324.752 Recovery = 104.74%							
Fe 238.204 Radial†	77944.8	5159.3 µg/L	13.97	5159.3 ppb	13.97	0.27%	
QC value within limits for Fe 238.204 Radial Recovery = 103.19%							
K 766.490 Radial†	6325.4	2518.2 µg/L	22.53	2518.2 ppb	22.53	0.89%	
QC value within limits for K 766.490 Radial Recovery = 100.73%							
Mg 279.077 IEC†	13670.7	5456.4 µg/L	37.69	5456.4 ppb	37.69	0.69%	
QC value within limits for Mg 279.077 IEC Recovery = 109.13%							
Mn 257.610†	404590.5	531.10 µg/L	2.065	531.10 ppb	2.065	0.39%	
QC value within limits for Mn 257.610 Recovery = 106.22%							
Mo 202.031†	17605.9	552.07 µg/L	5.313	552.07 ppb	5.313	0.96%	
QC value greater than the upper limit for Mo 202.031 Recovery = 110.41%							
Na 589.592 Radial†	17366.8	2564.7 µg/L	23.62	2564.7 ppb	23.62	0.92%	
QC value within limits for Na 589.592 Radial Recovery = 102.59%							
Ni 231.604†	42120.8	517.44 µg/L	4.491	517.44 ppb	4.491	0.87%	
QC value within limits for Ni 231.604 Recovery = 103.49%							
P 214.914†	11217.1	2577.7 µg/L	21.94	2577.7 ppb	21.94	0.85%	
QC value within limits for P 214.914 Recovery = 103.11%							
Pb 220.353†	8730.1	522.29 µg/L	4.426	522.29 ppb	4.426	0.85%	
QC value within limits for Pb 220.353 Recovery = 104.46%							
S 181.975 Axial†	3195.2	2562.5 µg/L	16.02	2562.5 ppb	16.02	0.63%	
QC value within limits for S 181.975 Axial Recovery = 102.50%							
Sb 206.836†	4022.6	514.27 µg/L	3.568	514.27 ppb	3.568	0.69%	
QC value within limits for Sb 206.836 Recovery = 102.85%							
Se 196.026†	6631.8	2590 µg/L	23.3	2590 ppb	23.3	0.90%	
QC value within limits for Se 196.026 Recovery = 103.46%							
SiO2†	102269.6	10637 µg/L	44.1	10637 ppb	44.1	0.41%	
QC value within limits for SiO2 Recovery = 99.45%							
Si 251.611†	316521.5	4963.6 µg/L	23.82	4963.6 ppb	23.82	0.48%	
QC value within limits for Si 251.611 Recovery = 99.27%							
Sn 189.927†	8207.8	550.00 µg/L	4.184	550.00 ppb	4.184	0.76%	
QC value within limits for Sn 189.927 Recovery = 110.00%							
Sr 421.552†	241784.6	532.89 µg/L	5.801	532.89 ppb	5.801	1.09%	
QC value within limits for Sr 421.552 Recovery = 106.58%							
Ti 334.940†	514321.1	506.85 µg/L	1.382	506.85 ppb	1.382	0.27%	
QC value within limits for Ti 334.940 Recovery = 101.37%							
Tl 190.801†	4177.6	554.47 µg/L	2.595	554.47 ppb	2.595	0.47%	
QC value greater than the upper limit for Tl 190.801 Recovery = 110.89%							
U 409.014†	7560.0	501.36 µg/L	10.911	501.36 ppb	10.911	2.18%	
QC value within limits for U 409.014 Recovery = 100.27%							
V 292.402†	100160.5	525.90 µg/L	1.836	525.90 ppb	1.836	0.35%	
QC value within limits for V 292.402 Recovery = 105.18%							
Zn 213.857†	87006.4	519.58 µg/L	2.988	519.58 ppb	2.988	0.58%	
QC value within limits for Zn 213.857 Recovery = 103.92%							
QC Failed. Continue with analysis.							

Sequence No.: 7

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 3/31/2010 8:55:07

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	148819.0	148819.0	99.2 %		08:55:36
1	Al 396.153Radial†	-69.0	4.4	0.8529 µg/L	0.8529 ppb	08:55:56
1	Ca 317.933Radial†	604.8	-23.3	-1.3920 µg/L	-1.3920 ppb	08:55:56
1	Fe 238.204 Radial†	179.3	43.2	2.8617 µg/L	2.8617 ppb	08:55:56
1	K 766.490 Radial†	1630.5	68.6	27.324 µg/L	27.324 ppb	08:55:36
1	Mg 279.077 IEC†	170.5	-0.4	-0.1461 µg/L	-0.1461 ppb	08:55:56
1	Na 589.592 Radial†	1344.4	237.4	35.066 µg/L	35.066 ppb	08:55:36
1	Sr 421.552†	-59.7	195.4	0.4306 µg/L	0.4306 ppb	08:55:36
1	Sc 361.383	1747477.1	1747477.1	97.501 %		08:56:44
1	Y 371.029	1051488.4	1051488.4	97.489 %		08:56:44
1	Ag 328.068†	4048.3	223.9	0.8870 µg/L	0.8870 ppb	08:56:46
1	As 188.979†	-16.2	-2.8	-0.8942 µg/L	-0.8942 ppb	08:57:06
1	B 249.677†	3485.1	171.0	2.6998 µg/L	2.6998 ppb	08:57:06
1	Ba 233.527†	-150.2	-15.7	-0.0667 µg/L	-0.0667 ppb	08:57:06
1	Be 313.107†	-961.9	30.0	0.0107 µg/L	0.0107 ppb	08:56:46
1	Cd 226.502†	-115.8	-9.0	-0.0603 µg/L	-0.0603 ppb	08:57:06
1	Co 228.616†	-175.5	-8.4	-0.1102 µg/L	-0.1102 ppb	08:57:06
1	Cr 267.716†	190.3	14.5	0.1147 µg/L	0.1147 ppb	08:57:06
1	Cu 324.752†	3032.4	132.7	0.5530 µg/L	0.5530 ppb	08:56:46
1	Mn 257.610†	294.6	109.1	0.1432 µg/L	0.1432 ppb	08:57:06
1	Mo 202.031†	-28.6	7.1	0.2216 µg/L	0.2216 ppb	08:57:06
1	Ni 231.604†	-97.1	-1.9	-0.0239 µg/L	-0.0239 ppb	08:57:06
1	P 214.914†	-29.5	-7.0	-1.6106 µg/L	-1.6106 ppb	08:57:06
1	Pb 220.353†	106.3	47.1	2.8056 µg/L	2.8056 ppb	08:57:06
1	S 181.975 Axial†	89.4	-0.5	-0.4127 µg/L	-0.4127 ppb	08:57:06
1	Sb 206.836†	87.6	8.9	1.1388 µg/L	1.1388 ppb	08:57:06
1	Se 196.026†	18.2	-2.2	-0.865 µg/L	-0.865 ppb	08:57:06
1	SiO2†	1792.5	56.6	5.8756 µg/L	5.8756 ppb	08:57:06
1	Si 251.611†	1092.4	192.3	3.0104 µg/L	3.0104 ppb	08:56:46
1	Sn 189.927†	18.9	21.8	1.4576 µg/L	1.4576 ppb	08:57:06
1	Ti 334.940†	794.0	-155.9	-0.1566 µg/L	-0.1566 ppb	08:56:46
1	Tl 190.801†	-102.0	12.2	1.5977 µg/L	1.5977 ppb	08:57:06
1	U 409.014†	-205.6	107.6	6.6876 µg/L	6.6876 ppb	08:56:46
1	V 292.402†	318.8	21.3	0.1173 µg/L	0.1173 ppb	08:56:46
1	Zn 213.857†	599.5	23.5	0.1408 µg/L	0.1408 ppb	08:57:06
2	Sc RADIAL	150230.5	150230.5	100 %		08:55:58
2	Al 396.153Radial†	-60.1	13.9	2.7247 µg/L	2.7247 ppb	08:56:18
2	Ca 317.933Radial†	567.6	-66.2	-3.9487 µg/L	-3.9487 ppb	08:56:18
2	Fe 238.204 Radial†	172.9	35.1	2.3249 µg/L	2.3249 ppb	08:56:18
2	K 766.490 Radial†	1738.5	161.0	64.172 µg/L	64.172 ppb	08:55:58
2	Mg 279.077 IEC†	172.3	-0.1	-0.0390 µg/L	-0.0390 ppb	08:56:18
2	Na 589.592 Radial†	1329.1	209.4	30.893 µg/L	30.893 ppb	08:55:58
2	Sr 421.552†	-163.7	92.1	0.2029 µg/L	0.2029 ppb	08:55:58
2	Sc 361.383	1782283.3	1782283.3	99.444 %		08:57:08
2	Y 371.029	1071082.2	1071082.2	99.306 %		08:57:08
2	Ag 328.068†	3888.7	-17.6	-0.0603 µg/L	-0.0603 ppb	08:57:11
2	As 188.979†	-10.8	3.0	0.9438 µg/L	0.9438 ppb	08:57:31
2	B 249.677†	3415.8	31.5	0.4985 µg/L	0.4985 ppb	08:57:31
2	Ba 233.527†	-129.3	8.2	0.0353 µg/L	0.0353 ppb	08:57:31
2	Be 313.107†	-1047.4	-36.6	-0.0096 µg/L	-0.0096 ppb	08:57:11
2	Cd 226.502†	-84.9	24.4	0.1629 µg/L	0.1629 ppb	08:57:31
2	Co 228.616†	-185.4	-14.8	-0.1950 µg/L	-0.1950 ppb	08:57:31
2	Cr 267.716†	202.0	22.4	0.1837 µg/L	0.1837 ppb	08:57:31
2	Cu 324.752†	2906.1	-55.1	-0.2244 µg/L	-0.2244 ppb	08:57:11
2	Mn 257.610†	303.9	112.6	0.1479 µg/L	0.1479 ppb	08:57:31
2	Mo 202.031†	-34.2	2.0	0.0644 µg/L	0.0644 ppb	08:57:31
2	Ni 231.604†	-87.3	9.8	0.1206 µg/L	0.1206 ppb	08:57:31
2	P 214.914†	-25.9	-2.7	-0.6228 µg/L	-0.6228 ppb	08:57:31
2	Pb 220.353†	74.3	12.9	0.7651 µg/L	0.7651 ppb	08:57:31

2	S 181.975 Axial†	98.7	7.0	5.6244 µg/L	5.6244 ppb	08:57:31
2	Sb 206.836†	76.9	-3.6	-0.4598 µg/L	-0.4598 ppb	08:57:31
2	Se 196.026†	18.7	-2.1	-0.810 µg/L	-0.810 ppb	08:57:31
2	SiO2†	1806.9	35.1	3.6466 µg/L	3.6466 ppb	08:57:31
2	Si 251.611†	892.3	-30.8	-0.4912 µg/L	-0.4912 ppb	08:57:11
2	Sn 189.927†	11.9	14.4	0.9627 µg/L	0.9627 ppb	08:57:31
2	Ti 334.940†	1019.7	55.1	0.0529 µg/L	0.0529 ppb	08:57:11
2	Tl 190.801†	-122.8	-6.7	-0.8711 µg/L	-0.8711 ppb	08:57:31
2	U 409.014†	-266.5	50.5	3.1583 µg/L	3.1583 ppb	08:57:11
2	V 292.402†	381.6	78.1	0.4076 µg/L	0.4076 ppb	08:57:11
2	Zn 213.857†	597.2	9.2	0.0548 µg/L	0.0548 ppb	08:57:31
3	Sc RADIAL	148943.6	148943.6	99.3 %		08:56:20
3	Al 396.153Radial†	-67.9	5.6	1.0831 µg/L	1.0831 ppb	08:56:40
3	Ca 317.933Radial†	596.9	-31.7	-1.8923 µg/L	-1.8923 ppb	08:56:40
3	Fe 238.204 Radial†	171.0	34.8	2.3023 µg/L	2.3023 ppb	08:56:40
3	K 766.490 Radial†	1596.5	32.9	13.122 µg/L	13.122 ppb	08:56:20
3	Mg 279.077 IEC†	190.0	19.1	7.6322 µg/L	7.6322 ppb	08:56:40
3	Na 589.592 Radial†	1199.8	90.6	13.379 µg/L	13.379 ppb	08:56:20
3	Sr 421.552†	-282.8	-29.3	-0.0645 µg/L	-0.0645 ppb	08:56:20
3	Sc 361.383	1766524.3	1766524.3	98.564 %		08:57:33
3	Y 371.029	1062999.0	1062999.0	98.556 %		08:57:33
3	Ag 328.068†	3864.1	-7.7	-0.0252 µg/L	-0.0252 ppb	08:57:35
3	As 188.979†	-20.6	-7.0	-2.2290 µg/L	-2.2290 ppb	08:57:55
3	B 249.677†	3384.5	30.5	0.4809 µg/L	0.4809 ppb	08:57:55
3	Ba 233.527†	-166.1	-30.2	-0.1283 µg/L	-0.1283 ppb	08:57:55
3	Be 313.107†	-1031.9	-30.3	-0.0071 µg/L	-0.0071 ppb	08:57:35
3	Cd 226.502†	-113.5	-5.4	-0.0362 µg/L	-0.0362 ppb	08:57:55
3	Co 228.616†	-164.5	4.7	0.0612 µg/L	0.0612 ppb	08:57:55
3	Cr 267.716†	211.7	34.1	0.2782 µg/L	0.2782 ppb	08:57:55
3	Cu 324.752†	3053.8	120.8	0.5033 µg/L	0.5033 ppb	08:57:35
3	Mn 257.610†	307.2	118.6	0.1554 µg/L	0.1554 ppb	08:57:55
3	Mo 202.031†	-28.2	7.8	0.2453 µg/L	0.2453 ppb	08:57:55
3	Ni 231.604†	-85.8	10.6	0.1300 µg/L	0.1300 ppb	08:57:55
3	P 214.914†	-24.3	-1.3	-0.3042 µg/L	-0.3042 ppb	08:57:55
3	Pb 220.353†	62.8	1.8	0.1040 µg/L	0.1040 ppb	08:57:55
3	S 181.975 Axial†	91.0	0.0	0.0410 µg/L	0.0410 ppb	08:57:55
3	Sb 206.836†	66.7	-13.3	-1.6905 µg/L	-1.6905 ppb	08:57:55
3	Se 196.026†	13.4	-7.3	-2.85 µg/L	-2.85 ppb	08:57:55
3	SiO2†	1810.3	54.8	5.6888 µg/L	5.6888 ppb	08:57:55
3	Si 251.611†	897.2	-17.8	-0.2932 µg/L	-0.2932 ppb	08:57:35
3	Sn 189.927†	19.3	22.1	1.4741 µg/L	1.4741 ppb	08:57:55
3	Ti 334.940†	941.7	-14.8	-0.0176 µg/L	-0.0176 ppb	08:57:35
3	Tl 190.801†	-106.3	8.9	1.1698 µg/L	1.1698 ppb	08:57:55
3	U 409.014†	-229.3	85.8	5.3227 µg/L	5.3227 ppb	08:57:35
3	V 292.402†	274.1	-27.5	-0.1355 µg/L	-0.1355 ppb	08:57:35
3	Zn 213.857†	610.1	27.6	0.1648 µg/L	0.1648 ppb	08:57:55

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1765428.2	98.503 %	0.9725			0.99%
Sc RADIAL	149331.1	99.5 %	0.52			0.52%
Y 371.029	1061856.5	98.450 %	0.9129			0.93%
Ag 328.068†	66.2	0.2672 µg/L	0.53707	0.2672 ppb	0.53707	201.03%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	8.0	1.5536 µg/L	1.02072	1.5536 ppb	1.02072	65.70%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.3	-0.7265 µg/L	1.59304	-0.7265 ppb	1.59304	219.29%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	77.7	1.2264 µg/L	1.27604	1.2264 ppb	1.27604	104.05%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-12.6	-0.0533 µg/L	0.08262	-0.0533 ppb	0.08262	155.14%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-12.3	-0.0020 µg/L	0.01104	-0.0020 ppb	0.01104	548.42%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-40.4	-2.4110 µg/L	1.35502	-2.4110 ppb	1.35502	56.20%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	3.3	0.0221 µg/L	0.12252	0.0221 ppb	0.12252	553.98%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-6.2	-0.0814 µg/L	0.13054	-0.0814 ppb	0.13054	160.43%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	23.6	0.1922 µg/L	0.08205	0.1922 ppb	0.08205	42.69%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	66.1	0.2773 µg/L	0.43516	0.2773 ppb	0.43516	156.93%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	37.7	2.4963 µg/L	0.31668	2.4963 ppb	0.31668	12.69%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	87.5	34.873 µg/L	26.3491	34.873 ppb	26.3491	75.56%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	6.2	2.4824 µg/L	4.46021	2.4824 ppb	4.46021	179.68%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	113.4	0.1488 µg/L	0.00617	0.1488 ppb	0.00617	4.14%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	5.6	0.1771 µg/L	0.09832	0.1771 ppb	0.09832	55.51%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	179.1	26.446 µg/L	11.5075	26.446 ppb	11.5075	43.51%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	6.2	0.0756 µg/L	0.08624	0.0756 ppb	0.08624	114.13%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-3.7	-0.8458 µg/L	0.68117	-0.8458 ppb	0.68117	80.53%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	20.6	1.2249 µg/L	1.40825	1.2249 ppb	1.40825	114.97%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	2.2	1.7509 µg/L	3.36221	1.7509 ppb	3.36221	192.03%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-2.7	-0.3372 µg/L	1.41863	-0.3372 ppb	1.41863	420.76%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-3.9	-1.51 µg/L	1.163	-1.51 ppb	1.163	77.09%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	48.9	5.0703 µg/L	1.23653	5.0703 ppb	1.23653	24.39%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	47.9	0.7420 µg/L	1.96701	0.7420 ppb	1.96701	265.10%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	19.4	1.2982 µg/L	0.29060	1.2982 ppb	0.29060	22.39%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	86.0	0.1897 µg/L	0.24782	0.1897 ppb	0.24782	130.65%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-38.5	-0.0404 µg/L	0.10663	-0.0404 ppb	0.10663	263.76%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	4.8	0.6321 µg/L	1.31930	0.6321 ppb	1.31930	208.72%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	81.3	5.0562 µg/L	1.77968	5.0562 ppb	1.77968	35.20%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	23.9	0.1298 µg/L	0.27174	0.1298 ppb	0.27174	209.35%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	20.1	0.1201 µg/L	0.05786	0.1201 ppb	0.05786	48.17%	
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 8:58:02

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	151523.0	151523.0	101 %		08:58:32
1	Al 396.153Radial†	955.4	1019.9	199.59 µg/L	199.59 ppb	08:58:34
1	Ca 317.933Radial†	4160.8	3486.8	207.95 µg/L	207.95 ppb	08:58:34
1	Fe 238.204 Radial†	1697.5	1543.3	102.15 µg/L	102.15 ppb	08:58:34
1	K 766.490 Radial†	1860.3	266.7	106.15 µg/L	106.15 ppb	08:58:32
1	Mg 279.077 IEC†	960.0	778.3	310.30 µg/L	310.30 ppb	08:58:34
1	Na 589.592 Radial†	3201.8	2052.2	303.25 µg/L	303.25 ppb	08:58:34
1	Sr 421.552†	2361.8	2594.1	5.7161 µg/L	5.7161 ppb	08:58:34
1	Sc 361.383	1768403.3	1768403.3	98.669 %		08:58:46
1	Y 371.029	1065976.0	1065976.0	98.832 %		08:58:46
1	Ag 328.068†	5148.6	1289.9	5.1814 µg/L	5.1814 ppb	08:58:48
1	As 188.979†	73.7	88.5	28.146 µg/L	28.146 ppb	08:59:08
1	B 249.677†	6461.0	3144.8	49.619 µg/L	49.619 ppb	08:58:48
1	Ba 233.527†	1036.3	1188.6	5.0525 µg/L	5.0525 ppb	08:59:08
1	Be 313.107†	15768.1	16997.4	4.9104 µg/L	4.9104 ppb	08:58:48
1	Cd 226.502†	635.4	753.7	5.0267 µg/L	5.0267 ppb	08:59:08
1	Co 228.616†	217.5	392.0	5.1615 µg/L	5.1615 ppb	08:59:08
1	Cr 267.716†	784.3	614.1	5.0431 µg/L	5.0431 ppb	08:59:08
1	Cu 324.752†	5278.1	2371.9	9.8610 µg/L	9.8610 ppb	08:58:48
1	Mn 257.610†	8137.3	8054.0	10.564 µg/L	10.564 ppb	08:58:48
1	Mo 202.031†	279.2	319.4	10.018 µg/L	10.018 ppb	08:59:08
1	Ni 231.604†	329.9	432.0	5.3065 µg/L	5.3065 ppb	08:59:08
1	P 214.914†	621.6	653.3	150.51 µg/L	150.51 ppb	08:59:08
1	Pb 220.353†	240.6	181.9	10.836 µg/L	10.836 ppb	08:59:08
1	S 181.975 Axial†	225.1	135.9	108.89 µg/L	108.89 ppb	08:59:08
1	Sb 206.836†	152.4	73.5	9.4457 µg/L	9.4457 ppb	08:59:08
1	Se 196.026†	95.4	75.7	29.6 µg/L	29.6 ppb	08:59:08
1	SiO2†	3853.0	2123.1	220.86 µg/L	220.86 ppb	08:58:48
1	Si 251.611†	7373.1	6544.4	102.65 µg/L	102.65 ppb	08:58:48
1	Sn 189.927†	161.9	166.5	11.140 µg/L	11.140 ppb	08:59:08
1	Ti 334.940†	5791.9	4899.7	4.7867 µg/L	4.7867 ppb	08:58:48
1	Tl 190.801†	47.5	164.9	21.667 µg/L	21.667 ppb	08:59:08
1	U 409.014†	718.0	1046.2	65.298 µg/L	65.298 ppb	08:58:48
1	V 292.402†	1185.5	895.9	4.7936 µg/L	4.7936 ppb	08:58:48
1	Zn 213.857†	2239.8	1678.7	10.054 µg/L	10.054 ppb	08:59:08
2	Sc RADIAL	150385.1	150385.1	100 %		08:58:36
2	Al 396.153Radial†	1022.9	1094.4	214.20 µg/L	214.20 ppb	08:58:38
2	Ca 317.933Radial†	4248.7	3605.6	215.04 µg/L	215.04 ppb	08:58:38
2	Fe 238.204 Radial†	1768.2	1626.5	107.66 µg/L	107.66 ppb	08:58:38
2	K 766.490 Radial†	2059.1	479.0	190.77 µg/L	190.77 ppb	08:58:36
2	Mg 279.077 IEC†	975.4	800.9	319.29 µg/L	319.29 ppb	08:58:38
2	Na 589.592 Radial†	3208.6	2083.0	307.72 µg/L	307.72 ppb	08:58:38
2	Sr 421.552†	2413.8	2663.7	5.8694 µg/L	5.8694 ppb	08:58:38
2	Sc 361.383	1774879.8	1774879.8	99.030 %		08:59:10
2	Y 371.029	1069956.4	1069956.4	99.201 %		08:59:10
2	Ag 328.068†	5229.8	1352.9	5.4305 µg/L	5.4305 ppb	08:59:12
2	As 188.979†	79.4	94.0	29.867 µg/L	29.867 ppb	08:59:32
2	B 249.677†	6602.1	3263.4	51.493 µg/L	51.493 ppb	08:59:12
2	Ba 233.527†	1073.3	1222.1	5.1949 µg/L	5.1949 ppb	08:59:32
2	Be 313.107†	16138.9	17313.5	5.0021 µg/L	5.0021 ppb	08:59:12
2	Cd 226.502†	673.3	789.6	5.2658 µg/L	5.2658 ppb	08:59:32
2	Co 228.616†	203.1	376.7	4.9591 µg/L	4.9591 ppb	08:59:32
2	Cr 267.716†	779.3	606.3	4.9756 µg/L	4.9756 ppb	08:59:32
2	Cu 324.752†	5316.4	2391.0	9.9430 µg/L	9.9430 ppb	08:59:12
2	Mn 257.610†	8332.8	8221.4	10.784 µg/L	10.784 ppb	08:59:12
2	Mo 202.031†	286.3	325.5	10.210 µg/L	10.210 ppb	08:59:32
2	Ni 231.604†	318.5	419.2	5.1498 µg/L	5.1498 ppb	08:59:32
2	P 214.914†	626.3	655.7	151.07 µg/L	151.07 ppb	08:59:32
2	Pb 220.353†	253.4	194.0	11.558 µg/L	11.558 ppb	08:59:32

2	S 181.975 Axial†	216.0	125.9	100.90 µg/L	100.90 ppb	08:59:32
2	Sb 206.836†	151.7	72.3	9.2963 µg/L	9.2963 ppb	08:59:32
2	Se 196.026†	89.6	69.5	27.2 µg/L	27.2 ppb	08:59:32
2	SiO2†	3880.8	2136.9	222.30 µg/L	222.30 ppb	08:59:12
2	Si 251.611†	7629.1	6775.7	106.28 µg/L	106.28 ppb	08:59:12
2	Sn 189.927†	153.1	157.1	10.512 µg/L	10.512 ppb	08:59:32
2	Ti 334.940†	6025.7	5114.4	4.9970 µg/L	4.9970 ppb	08:59:12
2	Tl 190.801†	45.4	162.6	21.376 µg/L	21.376 ppb	08:59:32
2	U 409.014†	761.6	1087.5	67.864 µg/L	67.864 ppb	08:59:12
2	V 292.402†	1178.0	883.9	4.7342 µg/L	4.7342 ppb	08:59:12
2	Zn 213.857†	2262.7	1693.5	10.144 µg/L	10.144 ppb	08:59:32
3	Sc RADIAL	149101.1	149101.1	99.4 %		08:58:40
3	Al 396.153Radial†	983.8	1063.9	208.22 µg/L	208.22 ppb	08:58:42
3	Ca 317.933Radial†	4028.1	3420.1	203.98 µg/L	203.98 ppb	08:58:42
3	Fe 238.204 Radial†	1698.2	1571.3	104.01 µg/L	104.01 ppb	08:58:42
3	K 766.490 Radial†	2117.9	555.9	221.41 µg/L	221.41 ppb	08:58:40
3	Mg 279.077 IEC†	1039.8	874.0	348.42 µg/L	348.42 ppb	08:58:42
3	Na 589.592 Radial†	3261.4	2163.8	319.63 µg/L	319.63 ppb	08:58:42
3	Sr 421.552†	2201.5	2470.7	5.4441 µg/L	5.4441 ppb	08:58:42
3	Sc 361.383	1775996.3	1775996.3	99.093 %		08:59:34
3	Y 371.029	1071001.6	1071001.6	99.298 %		08:59:34
3	Ag 328.068†	5128.9	1247.8	5.0019 µg/L	5.0019 ppb	08:59:36
3	As 188.979†	85.1	99.7	31.669 µg/L	31.669 ppb	08:59:56
3	B 249.677†	6550.9	3207.6	50.611 µg/L	50.611 ppb	08:59:36
3	Ba 233.527†	1069.9	1218.0	5.1776 µg/L	5.1776 ppb	08:59:56
3	Be 313.107†	16335.8	17501.9	5.0513 µg/L	5.0513 ppb	08:59:36
3	Cd 226.502†	636.6	752.2	5.0159 µg/L	5.0159 ppb	08:59:56
3	Co 228.616†	205.9	379.4	4.9951 µg/L	4.9951 ppb	08:59:56
3	Cr 267.716†	780.0	606.4	4.9895 µg/L	4.9895 ppb	08:59:56
3	Cu 324.752†	5454.9	2527.4	10.492 µg/L	10.492 ppb	08:59:36
3	Mn 257.610†	8261.9	8144.5	10.682 µg/L	10.682 ppb	08:59:36
3	Mo 202.031†	274.5	313.4	9.8313 µg/L	9.8313 ppb	08:59:56
3	Ni 231.604†	312.6	413.1	5.0744 µg/L	5.0744 ppb	08:59:56
3	P 214.914†	642.7	671.9	154.80 µg/L	154.80 ppb	08:59:56
3	Pb 220.353†	246.9	187.2	11.165 µg/L	11.165 ppb	08:59:56
3	S 181.975 Axial†	218.7	128.4	102.91 µg/L	102.91 ppb	08:59:56
3	Sb 206.836†	151.3	71.8	9.2281 µg/L	9.2281 ppb	08:59:56
3	Se 196.026†	108.1	88.1	34.4 µg/L	34.4 ppb	08:59:56
3	SiO2†	3848.8	2102.3	218.69 µg/L	218.69 ppb	08:59:36
3	Si 251.611†	7449.4	6589.5	103.36 µg/L	103.36 ppb	08:59:36
3	Sn 189.927†	158.2	162.1	10.847 µg/L	10.847 ppb	08:59:56
3	Ti 334.940†	6090.6	5176.1	5.0620 µg/L	5.0620 ppb	08:59:36
3	Tl 190.801†	53.9	171.2	22.494 µg/L	22.494 ppb	08:59:56
3	U 409.014†	498.3	821.3	51.344 µg/L	51.344 ppb	08:59:36
3	V 292.402†	1234.9	940.6	5.0131 µg/L	5.0131 ppb	08:59:36
3	Zn 213.857†	2246.6	1675.9	10.038 µg/L	10.038 ppb	08:59:56

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1773093.1	98.931 %	0.2287			0.23%
Sc RADIAL	150336.4	100 %	0.8			0.81%
Y 371.029	1068978.0	99.110 %	0.2459			0.25%
Ag 328.068†	1296.9	5.2046 µg/L	0.21521	5.2046 ppb	0.21521	4.13%
QC value within limits for Ag 328.068 Recovery = 104.09%						
Al 396.153Radial†	1059.4	207.33 µg/L	7.344	207.33 ppb	7.344	3.54%
QC value within limits for Al 396.153Radial Recovery = 103.67%						
As 188.979†	94.1	29.894 µg/L	1.7614	29.894 ppb	1.7614	5.89%
QC value within limits for As 188.979 Recovery = 99.65%						
B 249.677†	3205.3	50.575 µg/L	0.9373	50.575 ppb	0.9373	1.85%
QC value within limits for B 249.677 Recovery = 101.15%						
Ba 233.527†	1209.6	5.1416 µg/L	0.07772	5.1416 ppb	0.07772	1.51%
QC value within limits for Ba 233.527 Recovery = 102.83%						
Be 313.107†	17271.0	4.9880 µg/L	0.07154	4.9880 ppb	0.07154	1.43%
QC value within limits for Be 313.107 Recovery = 99.76%						
Ca 317.933Radial†	3504.2	208.99 µg/L	5.604	208.99 ppb	5.604	2.68%
QC value within limits for Ca 317.933Radial Recovery = 104.50%						
Cd 226.502†	765.2	5.1028 µg/L	0.14128	5.1028 ppb	0.14128	2.77%
QC value within limits for Cd 226.502 Recovery = 102.06%						
Co 228.616†	382.7	5.0385 µg/L	0.10796	5.0385 ppb	0.10796	2.14%

QC value within limits for Co 228.616 Recovery = 100.77%							
Cr 267.716†	608.9	5.0027 µg/L	0.03561	5.0027 ppb	0.03561	0.71%	
QC value within limits for Cr 267.716 Recovery = 100.05%							
Cu 324.752†	2430.1	10.099 µg/L	0.3431	10.099 ppb	0.3431	3.40%	
QC value within limits for Cu 324.752 Recovery = 100.99%							
Fe 238.204 Radial†	1580.3	104.61 µg/L	2.802	104.61 ppb	2.802	2.68%	
QC value within limits for Fe 238.204 Radial Recovery = 104.61%							
K 766.490 Radial†	433.9	172.78 µg/L	59.697	172.78 ppb	59.697	34.55%	
QC value within limits for K 766.490 Radial Recovery = 115.18%							
Mg 279.077 IEC†	817.8	326.00 µg/L	19.926	326.00 ppb	19.926	6.11%	
QC value within limits for Mg 279.077 IEC Recovery = 108.67%							
Mn 257.610†	8140.0	10.677 µg/L	0.1098	10.677 ppb	0.1098	1.03%	
QC value within limits for Mn 257.610 Recovery = 106.77%							
Mo 202.031†	319.4	10.020 µg/L	0.1894	10.020 ppb	0.1894	1.89%	
QC value within limits for Mo 202.031 Recovery = 100.20%							
Na 589.592 Radial†	2099.7	310.20 µg/L	8.467	310.20 ppb	8.467	2.73%	
QC value within limits for Na 589.592 Radial Recovery = 103.40%							
Ni 231.604†	421.4	5.1769 µg/L	0.11842	5.1769 ppb	0.11842	2.29%	
QC value within limits for Ni 231.604 Recovery = 103.54%							
P 214.914†	660.3	152.13 µg/L	2.337	152.13 ppb	2.337	1.54%	
QC value within limits for P 214.914 Recovery = 101.42%							
Pb 220.353†	187.7	11.187 µg/L	0.3616	11.187 ppb	0.3616	3.23%	
QC value within limits for Pb 220.353 Recovery = 111.87%							
S 181.975 Axial†	130.1	104.23 µg/L	4.156	104.23 ppb	4.156	3.99%	
QC value within limits for S 181.975 Axial Recovery = 104.23%							
Sb 206.836†	72.5	9.3233 µg/L	0.11128	9.3233 ppb	0.11128	1.19%	
QC value within limits for Sb 206.836 Recovery = 93.23%							
Se 196.026†	77.8	30.4 µg/L	3.69	30.4 ppb	3.69	12.14%	
QC value within limits for Se 196.026 Recovery = 101.36%							
SiO2†	2120.8	220.62 µg/L	1.817	220.62 ppb	1.817	0.82%	
QC value within limits for SiO2 Recovery = 103.58%							
Si 251.611†	6636.5	104.10 µg/L	1.927	104.10 ppb	1.927	1.85%	
QC value within limits for Si 251.611 Recovery = 104.10%							
Sn 189.927†	161.9	10.833 µg/L	0.3143	10.833 ppb	0.3143	2.90%	
QC value within limits for Sn 189.927 Recovery = 108.33%							
Sr 421.552†	2576.1	5.6765 µg/L	0.21536	5.6765 ppb	0.21536	3.79%	
QC value within limits for Sr 421.552 Recovery = 113.53%							
Ti 334.940†	5063.4	4.9486 µg/L	0.14388	4.9486 ppb	0.14388	2.91%	
QC value within limits for Ti 334.940 Recovery = 98.97%							
Tl 190.801†	166.2	21.846 µg/L	0.5801	21.846 ppb	0.5801	2.66%	
QC value within limits for Tl 190.801 Recovery = 109.23%							
U 409.014†	985.0	61.502 µg/L	8.8899	61.502 ppb	8.8899	14.45%	
QC value within limits for U 409.014 Recovery = 123.00%							
V 292.402†	906.8	4.8470 µg/L	0.14690	4.8470 ppb	0.14690	3.03%	
QC value within limits for V 292.402 Recovery = 96.94%							
Zn 213.857†	1682.7	10.079 µg/L	0.0572	10.079 ppb	0.0572	0.57%	
QC value within limits for Zn 213.857 Recovery = 100.79%							
All analyte(s) passed QC.							

Sequence No.: 9
 Sample ID: ICSA
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 103
 Date Collected: 3/31/2010 9:00:04
 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	140520.2	140520.2	93.7 %		09:00:37
1	Al 396.153Radial†	2400769.3	2563267.8	502780 µg/L	502780 ppb	09:00:35
1	Ca 317.933Radial†	7549731.0	8059876.7	480700 µg/L	480700 ppb	09:00:35
1	Fe 238.204 Radial†	2696149.9	2878421.0	190530 µg/L	190530 ppb	09:00:35
1	K 766.490 Radial†	1657.4	194.3	-162.25 µg/L	-162.25 ppb	09:00:37
1	Mg 279.077 IEC†	1139883.9	1216830.8	484700 µg/L	484700 ppb	09:00:35
1	Na 589.592 Radial†	1329.2	301.2	44.453 µg/L	44.453 ppb	09:00:37
1	Sr 421.552†	1349.1	1696.0	-0.0243 µg/L	-0.0243 ppb	09:00:37
1	Sc 361.383	1573725.9	1573725.9	87.807 %		09:01:04
1	Y 371.029	931192.8	931192.8	86.336 %		09:01:04
1	Ag 328.068†	6098.7	3017.5	-1.4469 µg/L	-1.4469 ppb	09:01:04
1	As 188.979†	-101.9	-102.2	10.311 µg/L	10.311 ppb	09:01:24
1	B 249.677†	3454.3	530.6	8.3612 µg/L	8.3612 ppb	09:01:04
1	Ba 233.527†	463.2	665.8	0.3916 µg/L	0.3916 ppb	09:01:24
1	Be 313.107†	-1381.4	-556.6	-0.1520 µg/L	-0.1520 ppb	09:01:04
1	Cd 226.502†	2298.4	2727.4	-1.8163 µg/L	-1.8163 ppb	09:01:24
1	Co 228.616†	110.4	297.3	-6.0220 µg/L	-6.0220 ppb	09:01:24
1	Cr 267.716†	183.5	28.3	0.9157 µg/L	0.9157 ppb	09:01:24
1	Cu 324.752†	-5034.3	-8710.9	4.9514 µg/L	4.9514 ppb	09:01:04
1	Mn 257.610†	16228.4	18288.9	4.2892 µg/L	4.2892 ppb	09:01:04
1	Mo 202.031†	-562.0	-603.7	-2.5173 µg/L	-2.5173 ppb	09:01:24
1	Ni 231.604†	138.9	255.7	3.1417 µg/L	3.1417 ppb	09:01:24
1	P 214.914†	184.8	233.7	36.249 µg/L	36.249 ppb	09:01:24
1	Pb 220.353†	-401.5	-519.2	-5.9450 µg/L	-5.9450 ppb	09:01:24
1	S 181.975 Axial†	166.5	97.4	77.774 µg/L	77.774 ppb	09:01:24
1	Sb 206.836†	111.7	46.2	-0.1312 µg/L	-0.1312 ppb	09:01:24
1	Se 196.026†	-149.3	-191.0	-8.30 µg/L	-8.30 ppb	09:01:24
1	SiO2†	1629.5	74.0	8.2124 µg/L	8.2124 ppb	09:01:24
1	Si 251.611†	516.4	-340.0	-5.1084 µg/L	-5.1084 ppb	09:01:24
1	Sn 189.927†	31.6	38.5	2.6492 µg/L	2.6492 ppb	09:01:24
1	Ti 334.940†	21828.5	23889.4	-3.3961 µg/L	-3.3961 ppb	09:01:04
1	Tl 190.801†	-145.0	-48.4	-5.9104 µg/L	-5.9104 ppb	09:01:24
1	U 409.014†	101.9	434.5	5.5681 µg/L	5.5681 ppb	09:01:04
1	V 292.402†	3531.8	3716.5	-1.0510 µg/L	-1.0510 ppb	09:01:24
1	Zn 213.857†	4216.5	4210.7	8.9881 µg/L	8.9881 ppb	09:01:24
2	Sc RADIAL	141123.3	141123.3	94.1 %		09:00:42
2	Al 396.153Radial†	2426718.8	2579899.5	506050 µg/L	506050 ppb	09:00:40
2	Ca 317.933Radial†	7651902.3	8134043.7	485120 µg/L	485120 ppb	09:00:40
2	Fe 238.204 Radial†	2733731.5	2906070.8	192360 µg/L	192360 ppb	09:00:40
2	K 766.490 Radial†	1636.9	165.0	-175.91 µg/L	-175.91 ppb	09:00:42
2	Mg 279.077 IEC†	1157803.7	1230679.7	490220 µg/L	490220 ppb	09:00:40
2	Na 589.592 Radial†	1425.1	397.1	58.630 µg/L	58.630 ppb	09:00:42
2	Sr 421.552†	1446.2	1793.0	0.1549 µg/L	0.1549 ppb	09:00:42
2	Sc 361.383	1581092.3	1581092.3	88.218 %		09:01:27
2	Y 371.029	935435.6	935435.6	86.729 %		09:01:27
2	Ag 328.068†	6261.3	3169.4	-0.9812 µg/L	-0.9812 ppb	09:01:27
2	As 188.979†	-111.2	-112.2	7.5642 µg/L	7.5642 ppb	09:01:47
2	B 249.677†	3479.6	540.9	8.5247 µg/L	8.5247 ppb	09:01:27
2	Ba 233.527†	419.5	613.8	0.1477 µg/L	0.1477 ppb	09:01:47
2	Be 313.107†	-1377.7	-545.1	-0.1504 µg/L	-0.1504 ppb	09:01:27
2	Cd 226.502†	2351.3	2775.1	-1.6898 µg/L	-1.6898 ppb	09:01:47
2	Co 228.616†	106.0	291.7	-6.1911 µg/L	-6.1911 ppb	09:01:47
2	Cr 267.716†	187.2	31.5	0.9432 µg/L	0.9432 ppb	09:01:47
2	Cu 324.752†	-5125.7	-8787.7	5.0455 µg/L	5.0455 ppb	09:01:27
2	Mn 257.610†	16378.3	18372.7	4.1756 µg/L	4.1756 ppb	09:01:27
2	Mo 202.031†	-545.5	-581.9	-1.6616 µg/L	-1.6616 ppb	09:01:47
2	Ni 231.604†	134.9	250.5	3.0770 µg/L	3.0770 ppb	09:01:47
2	P 214.914†	165.0	210.3	30.335 µg/L	30.335 ppb	09:01:47
2	Pb 220.353†	-381.9	-494.8	-4.3446 µg/L	-4.3446 ppb	09:01:47

2	S 181.975 Axial†	164.7	94.4	75.437 µg/L	75.437 ppb	09:01:47
2	Sb 206.836†	136.5	73.8	3.3441 µg/L	3.3441 ppb	09:01:47
2	Se 196.026†	-161.6	-204.1	-12.8 µg/L	-12.8 ppb	09:01:47
2	SiO2†	1627.0	62.5	6.9918 µg/L	6.9918 ppb	09:01:47
2	Si 251.611†	483.7	-379.8	-5.7443 µg/L	-5.7443 ppb	09:01:47
2	Sn 189.927†	36.4	43.7	2.9988 µg/L	2.9988 ppb	09:01:47
2	Ti 334.940†	21304.6	23179.7	-4.4282 µg/L	-4.4282 ppb	09:01:27
2	Tl 190.801†	-175.9	-82.6	-10.392 µg/L	-10.392 ppb	09:01:47
2	U 409.014†	21.8	343.2	-0.3135 µg/L	-0.3135 ppb	09:01:27
2	V 292.402†	3584.6	3757.7	-1.0268 µg/L	-1.0268 ppb	09:01:47
2	Zn 213.857†	4230.8	4204.5	8.7692 µg/L	8.7692 ppb	09:01:47
3	Sc RADIAL	140112.5	140112.5	93.4 %		09:00:46
3	Al 396.153Radial†	2413123.4	2583953.2	506840 µg/L	506840 ppb	09:00:44
3	Ca 317.933Radial†	7619796.2	8158350.4	486570 µg/L	486570 ppb	09:00:44
3	Fe 238.204 Radial†	2717980.3	2910170.8	192630 µg/L	192630 ppb	09:00:44
3	K 766.490 Radial†	1778.9	329.6	-110.80 µg/L	-110.80 ppb	09:00:46
3	Mg 279.077 IEC†	1150715.2	1231969.1	490730 µg/L	490730 ppb	09:00:44
3	Na 589.592 Radial†	1243.5	213.6	31.457 µg/L	31.457 ppb	09:00:46
3	Sr 421.552†	1375.4	1728.3	0.0010 µg/L	0.0010 ppb	09:00:46
3	Sc 361.383	1573760.4	1573760.4	87.809 %		09:01:50
3	Y 371.029	931881.2	931881.2	86.400 %		09:01:50
3	Ag 328.068†	6286.7	3231.4	-0.7822 µg/L	-0.7822 ppb	09:01:50
3	As 188.979†	-111.7	-113.3	7.2615 µg/L	7.2615 ppb	09:02:10
3	B 249.677†	3128.2	159.2	2.5013 µg/L	2.5013 ppb	09:01:50
3	Ba 233.527†	396.6	590.0	0.0426 µg/L	0.0426 ppb	09:02:10
3	Be 313.107†	-1254.6	-412.2	-0.1122 µg/L	-0.1122 ppb	09:01:50
3	Cd 226.502†	2335.9	2769.9	-1.7527 µg/L	-1.7527 ppb	09:02:10
3	Co 228.616†	72.8	254.6	-6.6947 µg/L	-6.6947 ppb	09:02:10
3	Cr 267.716†	209.8	58.3	1.1682 µg/L	1.1682 ppb	09:02:10
3	Cu 324.752†	-5296.7	-9009.5	4.1841 µg/L	4.1841 ppb	09:01:50
3	Mn 257.610†	16035.5	18068.7	3.7553 µg/L	3.7553 ppb	09:01:50
3	Mo 202.031†	-570.7	-613.5	-2.6316 µg/L	-2.6316 ppb	09:02:10
3	Ni 231.604†	171.3	292.7	3.5963 µg/L	3.5963 ppb	09:02:10
3	P 214.914†	189.3	238.9	36.927 µg/L	36.927 ppb	09:02:10
3	Pb 220.353†	-377.3	-491.6	-4.1140 µg/L	-4.1140 ppb	09:02:10
3	S 181.975 Axial†	162.9	93.3	74.499 µg/L	74.499 ppb	09:02:10
3	Sb 206.836†	124.9	61.3	1.7293 µg/L	1.7293 ppb	09:02:10
3	Se 196.026†	-137.3	-177.3	-2.24 µg/L	-2.24 ppb	09:02:10
3	SiO2†	1688.4	141.0	15.196 µg/L	15.196 ppb	09:02:10
3	Si 251.611†	521.8	-333.8	-5.0121 µg/L	-5.0121 ppb	09:02:10
3	Sn 189.927†	43.1	51.5	3.5175 µg/L	3.5175 ppb	09:02:10
3	Ti 334.940†	20663.8	22562.4	-5.0415 µg/L	-5.0415 ppb	09:01:50
3	Tl 190.801†	-161.0	-66.5	-8.3012 µg/L	-8.3012 ppb	09:02:10
3	U 409.014†	22.7	344.3	-0.2760 µg/L	-0.2760 ppb	09:01:50
3	V 292.402†	3493.0	3672.3	-1.5062 µg/L	-1.5062 ppb	09:02:10
3	Zn 213.857†	4233.8	4230.3	8.8923 µg/L	8.8923 ppb	09:02:10

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1576192.8	87.945 %	0.2367			0.27%
Sc RADIAL	140585.3	93.7 %	0.34			0.36%
Y 371.029	932836.5	86.488 %	0.2111			0.24%
Ag 328.068†	3139.4	-1.0701 µg/L	0.34117	-1.0701 ppb	0.34117	31.88%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	2575706.8	505220 µg/L	2150.1	505220 ppb	2150.1	0.43%
QC value within limits for Al 396.153Radial Recovery = 101.04%						
As 188.979†	-109.3	8.3790 µg/L	1.68017	8.3790 ppb	1.68017	20.05%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	410.2	6.4624 µg/L	3.43139	6.4624 ppb	3.43139	53.10%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	623.2	0.1940 µg/L	0.17907	0.1940 ppb	0.17907	92.32%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-504.7	-0.1382 µg/L	0.02256	-0.1382 ppb	0.02256	16.33%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	8117423.6	484130 µg/L	3059.4	484130 ppb	3059.4	0.63%
QC value within limits for Ca 317.933Radial Recovery = 96.83%						
Cd 226.502†	2757.5	-1.7530 µg/L	0.06323	-1.7530 ppb	0.06323	3.61%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	281.2	-6.3026 µg/L	0.34993	-6.3026 ppb	0.34993	5.55%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	39.4	1.0090 µg/L	0.13855	1.0090 ppb	0.13855	13.73%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-8836.0	4.7270 µg/L	0.47249	4.7270 ppb	0.47249	10.00%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	2898220.9	191840 µg/L	1143.1	191840 ppb	1143.1	0.60%
QC value within limits for Fe 238.204 Radial Recovery = 95.92%							
K	766.490 Radial†	229.6	-149.65 µg/L	34.335	-149.65 ppb	34.335	22.94%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	1226493.2	488550 µg/L	3343.2	488550 ppb	3343.2	0.68%
QC value within limits for Mg 279.077 IEC Recovery = 97.71%							
Mn	257.610†	18243.4	4.0734 µg/L	0.28121	4.0734 ppb	0.28121	6.90%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	-599.7	-2.2701 µg/L	0.53012	-2.2701 ppb	0.53012	23.35%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	304.0	44.847 µg/L	13.5911	44.847 ppb	13.5911	30.31%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	266.3	3.2717 µg/L	0.28298	3.2717 ppb	0.28298	8.65%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	227.6	34.504 µg/L	3.6262	34.504 ppb	3.6262	10.51%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-501.9	-4.8012 µg/L	0.99727	-4.8012 ppb	0.99727	20.77%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	95.0	75.903 µg/L	1.6863	75.903 ppb	1.6863	2.22%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	60.5	1.6474 µg/L	1.73909	1.6474 ppb	1.73909	105.57%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-190.8	-7.77 µg/L	5.278	-7.77 ppb	5.278	67.94%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		92.5	10.133 µg/L	4.4267	10.133 ppb	4.4267	43.68%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	-351.2	-5.2883 µg/L	0.39786	-5.2883 ppb	0.39786	7.52%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	44.6	3.0552 µg/L	0.43692	3.0552 ppb	0.43692	14.30%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	1739.1	0.0438 µg/L	0.09697	0.0438 ppb	0.09697	221.16%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	23210.5	-4.2886 µg/L	0.83152	-4.2886 ppb	0.83152	19.39%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	-65.8	-8.2011 µg/L	2.24242	-8.2011 ppb	2.24242	27.34%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	374.0	1.6596 µg/L	3.38492	1.6596 ppb	3.38492	203.97%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	3715.5	-1.1947 µg/L	0.27008	-1.1947 ppb	0.27008	22.61%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	4215.2	8.8832 µg/L	0.10975	8.8832 ppb	0.10975	1.24%
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 9:02:18

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	137224.0	137224.0	91.5 %		09:02:50
1	Al 396.153Radial†	2402511.5	2626740.3	515210 µg/L	515210 ppb	09:02:48
1	Ca 317.933Radial†	7555342.5	8259624.5	492610 µg/L	492610 ppb	09:02:48
1	Fe 238.204 Radial†	2701130.0	2953008.5	195470 µg/L	195470 ppb	09:02:48
1	K 766.490 Radial†	14843.4	14653.1	5594.1 µg/L	5594.1 ppb	09:02:50
1	Mg 279.077 IEC†	1136616.0	1242490.3	494940 µg/L	494940 ppb	09:02:50
1	Na 589.592 Radial†	34719.0	36840.4	5440.2 µg/L	5440.2 ppb	09:02:50
1	Sr 421.552†	214286.7	234535.3	513.09 µg/L	513.09 ppb	09:02:50
1	Sc 361.383	1575015.8	1575015.8	87.879 %		09:03:18
1	Y 371.029	933295.6	933295.6	86.531 %		09:03:18
1	Ag 328.068†	65324.3	70406.3	268.89 µg/L	268.89 ppb	09:03:18
1	As 188.979†	1328.1	1525.1	533.05 µg/L	533.05 ppb	09:03:20
1	B 249.677†	32335.8	33392.5	525.46 µg/L	525.46 ppb	09:03:18
1	Ba 233.527†	104295.9	118819.7	502.59 µg/L	502.59 ppb	09:03:18
1	Be 313.107†	753131.6	858027.2	247.03 µg/L	247.03 ppb	09:03:18
1	Cd 226.502†	65820.7	75009.1	480.72 µg/L	480.72 ppb	09:03:18
1	Co 228.616†	30695.8	35101.3	452.51 µg/L	452.51 ppb	09:03:20
1	Cr 267.716†	52614.9	59691.3	495.67 µg/L	495.67 ppb	09:03:20
1	Cu 324.752†	110061.3	122264.6	546.71 µg/L	546.71 ppb	09:03:18
1	Mn 257.610†	341595.0	388517.9	490.07 µg/L	490.07 ppb	09:03:18
1	Mo 202.031†	13577.0	15486.1	502.13 µg/L	502.13 ppb	09:03:20
1	Ni 231.604†	33452.1	38163.8	468.83 µg/L	468.83 ppb	09:03:20
1	P 214.914†	10280.0	11721.3	2677.9 µg/L	2677.9 ppb	09:03:20
1	Pb 220.353†	6785.4	7659.4	483.79 µg/L	483.79 ppb	09:03:20
1	S 181.975 Axial†	3170.9	3516.1	2818.8 µg/L	2818.8 ppb	09:03:20
1	Sb 206.836†	3636.5	4057.1	511.92 µg/L	511.92 ppb	09:03:20
1	Se 196.026†	5465.0	6197.9	2480 µg/L	2480 ppb	09:03:20
1	SiO2†	95702.4	107120.7	11145 µg/L	11145 ppb	09:03:18
1	Si 251.611†	292431.7	331838.6	5205.6 µg/L	5205.6 ppb	09:03:18
1	Sn 189.927†	6518.4	7419.9	497.46 µg/L	497.46 ppb	09:03:20
1	Ti 334.940†	477257.4	542115.0	507.09 µg/L	507.09 ppb	09:03:18
1	Tl 190.801†	3012.4	3544.6	472.24 µg/L	472.24 ppb	09:03:20
1	U 409.014†	6707.0	7950.5	503.93 µg/L	503.93 ppb	09:03:18
1	V 292.402†	90601.2	102792.2	518.73 µg/L	518.73 ppb	09:03:18
1	Zn 213.857†	76141.8	86052.7	497.90 µg/L	497.90 ppb	09:03:18
2	Sc RADIAL	137560.8	137560.8	91.7 %		09:02:55
2	Al 396.153Radial†	2382542.5	2598532.0	509680 µg/L	509680 ppb	09:02:53
2	Ca 317.933Radial†	7508366.4	8188171.7	488350 µg/L	488350 ppb	09:02:53
2	Fe 238.204 Radial†	2685190.4	2928395.6	193840 µg/L	193840 ppb	09:02:53
2	K 766.490 Radial†	14802.4	14568.7	5562.3 µg/L	5562.3 ppb	09:02:55
2	Mg 279.077 IEC†	1145560.0	1249203.0	497610 µg/L	497610 ppb	09:02:55
2	Na 589.592 Radial†	34975.6	37027.3	5467.9 µg/L	5467.9 ppb	09:02:55
2	Sr 421.552†	215471.0	235253.4	514.71 µg/L	514.71 ppb	09:02:55
2	Sc 361.383	1593260.8	1593260.8	88.897 %		09:03:23
2	Y 371.029	943047.1	943047.1	87.435 %		09:03:23
2	Ag 328.068†	66773.5	71185.3	272.09 µg/L	272.09 ppb	09:03:23
2	As 188.979†	1405.2	1594.5	554.59 µg/L	554.59 ppb	09:03:25
2	B 249.677†	33133.6	33868.6	533.01 µg/L	533.01 ppb	09:03:23
2	Ba 233.527†	106703.2	120168.5	508.34 µg/L	508.34 ppb	09:03:23
2	Be 313.107†	769626.0	866767.8	249.55 µg/L	249.55 ppb	09:03:23
2	Cd 226.502†	67526.4	76070.1	487.97 µg/L	487.97 ppb	09:03:23
2	Co 228.616†	30469.2	34446.3	443.97 µg/L	443.97 ppb	09:03:25
2	Cr 267.716†	52334.4	58690.1	487.26 µg/L	487.26 ppb	09:03:25
2	Cu 324.752†	112332.4	123385.1	551.17 µg/L	551.17 ppb	09:03:23
2	Mn 257.610†	348511.9	391847.5	494.34 µg/L	494.34 ppb	09:03:23
2	Mo 202.031†	13530.3	15256.7	494.93 µg/L	494.93 ppb	09:03:25
2	Ni 231.604†	32918.7	37127.8	456.10 µg/L	456.10 ppb	09:03:25
2	P 214.914†	10074.9	11356.5	2593.6 µg/L	2593.6 ppb	09:03:25
2	Pb 220.353†	6720.3	7497.8	473.84 µg/L	473.84 ppb	09:03:25

2	S 181.975 Axial†	3158.0	3460.2	2774.0 µg/L	2774.0 ppb	09:03:25
2	Sb 206.836†	3595.1	3963.2	500.03 µg/L	500.03 ppb	09:03:25
2	Se 196.026†	5456.0	6116.5	2450 µg/L	2450 ppb	09:03:25
2	SiO2†	97429.8	107816.8	11218 µg/L	11218 ppb	09:03:23
2	Si 251.611†	298847.8	335245.4	5259.3 µg/L	5259.3 ppb	09:03:23
2	Sn 189.927†	6474.7	7285.8	488.52 µg/L	488.52 ppb	09:03:25
2	Ti 334.940†	486394.1	546173.8	510.77 µg/L	510.77 ppb	09:03:23
2	Tl 190.801†	3058.9	3557.7	474.06 µg/L	474.06 ppb	09:03:25
2	U 409.014†	6977.2	8167.1	517.69 µg/L	517.69 ppb	09:03:23
2	V 292.402†	91895.4	103067.4	520.22 µg/L	520.22 ppb	09:03:23
2	Zn 213.857†	78103.7	87267.4	505.42 µg/L	505.42 ppb	09:03:23
3	Sc RADIAL	138834.0	138834.0	92.5 %		09:02:59
3	Al 396.153Radial†	2368832.5	2559886.7	502100 µg/L	502100 ppb	09:02:57
3	Ca 317.933Radial†	7451379.6	8051492.6	480200 µg/L	480200 ppb	09:02:57
3	Fe 238.204 Radial†	2661225.9	2875642.1	190340 µg/L	190340 ppb	09:02:57
3	K 766.490 Radial†	14843.9	14465.5	5524.5 µg/L	5524.5 ppb	09:02:59
3	Mg 279.077 IEC†	1153142.8	1245939.4	496320 µg/L	496320 ppb	09:02:59
3	Na 589.592 Radial†	35167.6	36885.0	5446.9 µg/L	5446.9 ppb	09:02:59
3	Sr 421.552†	216639.9	234361.4	512.81 µg/L	512.81 ppb	09:02:59
3	Sc 361.383	1568437.9	1568437.9	87.512 %		09:03:28
3	Y 371.029	929595.9	929595.9	86.188 %		09:03:28
3	Ag 328.068†	65204.5	70581.2	269.96 µg/L	269.96 ppb	09:03:28
3	As 188.979†	1354.4	1561.5	543.41 µg/L	543.41 ppb	09:03:30
3	B 249.677†	32673.8	33933.0	534.00 µg/L	534.00 ppb	09:03:28
3	Ba 233.527†	104483.6	119531.9	505.68 µg/L	505.68 ppb	09:03:28
3	Be 313.107†	753316.5	861832.8	248.13 µg/L	248.13 ppb	09:03:28
3	Cd 226.502†	65909.6	75424.7	484.03 µg/L	484.03 ppb	09:03:28
3	Co 228.616†	30419.9	34932.5	450.55 µg/L	450.55 ppb	09:03:30
3	Cr 267.716†	51979.5	59216.4	491.52 µg/L	491.52 ppb	09:03:30
3	Cu 324.752†	110087.6	122819.9	548.31 µg/L	548.31 ppb	09:03:28
3	Mn 257.610†	341681.3	390246.7	492.30 µg/L	492.30 ppb	09:03:28
3	Mo 202.031†	13558.7	15529.9	503.33 µg/L	503.33 ppb	09:03:30
3	Ni 231.604†	33011.5	37820.0	464.61 µg/L	464.61 ppb	09:03:30
3	P 214.914†	10273.0	11762.2	2687.9 µg/L	2687.9 ppb	09:03:30
3	Pb 220.353†	6718.9	7615.8	480.54 µg/L	480.54 ppb	09:03:30
3	S 181.975 Axial†	3113.8	3465.9	2778.6 µg/L	2778.6 ppb	09:03:30
3	Sb 206.836†	3667.8	4110.3	518.93 µg/L	518.93 ppb	09:03:30
3	Se 196.026†	5425.2	6178.5	2470 µg/L	2470 ppb	09:03:30
3	SiO2†	95689.5	107562.7	11191 µg/L	11191 ppb	09:03:28
3	Si 251.611†	292758.9	333608.1	5233.3 µg/L	5233.3 ppb	09:03:28
3	Sn 189.927†	6527.0	7460.9	500.21 µg/L	500.21 ppb	09:03:30
3	Ti 334.940†	478186.2	545454.0	509.95 µg/L	509.95 ppb	09:03:28
3	Tl 190.801†	2945.7	3482.8	464.20 µg/L	464.20 ppb	09:03:30
3	U 409.014†	6961.1	8273.0	524.65 µg/L	524.65 ppb	09:03:28
3	V 292.402†	90345.0	102931.7	520.00 µg/L	520.00 ppb	09:03:28
3	Zn 213.857†	76175.3	86454.4	500.79 µg/L	500.79 ppb	09:03:28

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1578904.9	88.096 %	0.7175			0.81%
Sc RADIAL	137872.9	91.9 %	0.57			0.62%
Y 371.029	935312.9	86.718 %	0.6443			0.74%
Ag 328.068†	70724.3	270.31 µg/L	1.631	270.31 ppb	1.631	0.60%
QC value within limits for Ag 328.068 Recovery = 108.12%						
Al 396.153Radial†	2595053.0	509000 µg/L	6583.3	509000 ppb	6583.3	1.29%
QC value within limits for Al 396.153Radial Recovery = 101.80%						
As 188.979†	1560.4	543.68 µg/L	10.774	543.68 ppb	10.774	1.98%
QC value within limits for As 188.979 Recovery = 108.74%						
B 249.677†	33731.4	530.83 µg/L	4.670	530.83 ppb	4.670	0.88%
QC value within limits for B 249.677 Recovery = 106.17%						
Ba 233.527†	119506.7	505.54 µg/L	2.877	505.54 ppb	2.877	0.57%
QC value within limits for Ba 233.527 Recovery = 101.11%						
Be 313.107†	862209.2	248.24 µg/L	1.263	248.24 ppb	1.263	0.51%
QC value within limits for Be 313.107 Recovery = 99.30%						
Ca 317.933Radial†	8166429.6	487060 µg/L	6307.4	487060 ppb	6307.4	1.30%
QC value within limits for Ca 317.933Radial Recovery = 97.41%						
Cd 226.502†	75501.3	484.24 µg/L	3.631	484.24 ppb	3.631	0.75%
QC value within limits for Cd 226.502 Recovery = 96.85%						
Co 228.616†	34826.7	449.01 µg/L	4.471	449.01 ppb	4.471	1.00%

QC value within limits for Co 228.616 Recovery = 89.80%						
Cr 267.716†	59199.3	491.48 µg/L	4.203	491.48 ppb	4.203	0.86%
QC value within limits for Cr 267.716 Recovery = 98.30%						
Cu 324.752†	122823.2	548.73 µg/L	2.261	548.73 ppb	2.261	0.41%
QC value within limits for Cu 324.752 Recovery = 109.75%						
Fe 238.204 Radial†	2919015.4	193220 µg/L	2616.4	193220 ppb	2616.4	1.35%
QC value within limits for Fe 238.204 Radial Recovery = 96.61%						
K 766.490 Radial†	14562.4	5560.3 µg/L	34.84	5560.3 ppb	34.84	0.63%
QC value within limits for K 766.490 Radial Recovery = 111.21%						
Mg 279.077 IEC†	1245877.6	496290 µg/L	1338.2	496290 ppb	1338.2	0.27%
QC value within limits for Mg 279.077 IEC Recovery = 99.26%						
Mn 257.610†	390204.0	492.24 µg/L	2.136	492.24 ppb	2.136	0.43%
QC value within limits for Mn 257.610 Recovery = 98.45%						
Mo 202.031†	15424.2	500.13 µg/L	4.543	500.13 ppb	4.543	0.91%
QC value within limits for Mo 202.031 Recovery = 100.03%						
Na 589.592 Radial†	36917.6	5451.6 µg/L	14.44	5451.6 ppb	14.44	0.26%
QC value within limits for Na 589.592 Radial Recovery = 109.03%						
Ni 231.604†	37703.8	463.18 µg/L	6.482	463.18 ppb	6.482	1.40%
QC value within limits for Ni 231.604 Recovery = 92.64%						
P 214.914†	11613.3	2653.1 µg/L	51.79	2653.1 ppb	51.79	1.95%
QC value within limits for P 214.914 Recovery = 106.13%						
Pb 220.353†	7591.0	479.39 µg/L	5.073	479.39 ppb	5.073	1.06%
QC value within limits for Pb 220.353 Recovery = 95.88%						
S 181.975 Axial†	3480.7	2790.5 µg/L	24.63	2790.5 ppb	24.63	0.88%
QC value within limits for S 181.975 Axial Recovery = 111.62%						
Sb 206.836†	4043.5	510.29 µg/L	9.553	510.29 ppb	9.553	1.87%
QC value within limits for Sb 206.836 Recovery = 102.06%						
Se 196.026†	6164.3	2470 µg/L	16.6	2470 ppb	16.6	0.67%
QC value within limits for Se 196.026 Recovery = 98.79%						
SiO2†	107500.1	11184 µg/L	36.9	11184 ppb	36.9	0.33%
QC value within limits for SiO2 Recovery = 104.58%						
Si 251.611†	333564.0	5232.7 µg/L	26.85	5232.7 ppb	26.85	0.51%
QC value within limits for Si 251.611 Recovery = 104.65%						
Sn 189.927†	7388.9	495.40 µg/L	6.114	495.40 ppb	6.114	1.23%
QC value within limits for Sn 189.927 Recovery = 99.08%						
Sr 421.552†	234716.7	513.53 µg/L	1.026	513.53 ppb	1.026	0.20%
QC value within limits for Sr 421.552 Recovery = 102.71%						
Ti 334.940†	544580.9	509.27 µg/L	1.928	509.27 ppb	1.928	0.38%
QC value within limits for Ti 334.940 Recovery = 101.85%						
Tl 190.801†	3528.4	470.17 µg/L	5.246	470.17 ppb	5.246	1.12%
QC value within limits for Tl 190.801 Recovery = 94.03%						
U 409.014†	8130.2	515.42 µg/L	10.544	515.42 ppb	10.544	2.05%
QC value within limits for U 409.014 Recovery = 103.08%						
V 292.402†	102930.4	519.65 µg/L	0.805	519.65 ppb	0.805	0.15%
QC value within limits for V 292.402 Recovery = 103.93%						
Zn 213.857†	86591.5	501.37 µg/L	3.791	501.37 ppb	3.791	0.76%
QC value within limits for Zn 213.857 Recovery = 100.27%						

All analyte(s) passed QC.

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

Autosampler Location: 105
 Date Collected: 3/31/2010 9:03:37
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: LRL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	134993.8	134993.8	90.0 %		09:04:09
1	Al 396.153Radial†	2305054.5	2561824.9	502500 µg/L	502500 ppb	09:04:07
1	Ca 317.933Radial†	7304116.7	8116887.7	484100 µg/L	484100 ppb	09:04:07
1	Fe 238.204 Radial†	6249097.2	6944874.2	459700 µg/L	459700 ppb	09:04:07
1	K 766.490 Radial†	1922.3	561.2	-99.320 µg/L	-99.320 ppb	09:04:09
1	Mg 279.077 IEC†	1093633.0	1215250.4	483840 µg/L	483840 ppb	09:04:07
1	Na 589.592 Radial†	3097635.6	3441477.8	508690 µg/L	508690 ppb	09:04:07
1	Sr 421.552†	5022.6	5837.5	9.0775 µg/L	9.0775 ppb	09:04:09
1	Sc 361.383	1524303.7	1524303.7	85.049 %		09:04:22
1	Y 371.029	899112.8	899112.8	83.361 %		09:04:22
1	Ag 328.068†	1922.2	-1668.0	-0.9725 µg/L	-0.9725 ppb	09:04:22
1	As 188.979†	-242.0	-270.8	17.290 µg/L	17.290 ppb	09:04:24
1	B 249.677†	4201.2	1536.4	24.204 µg/L	24.204 ppb	09:04:22
1	Ba 233.527†	746.7	1016.2	-1.5620 µg/L	-1.5620 ppb	09:04:24
1	Be 313.107†	-15272.1	-16940.1	0.1514 µg/L	0.1514 ppb	09:04:22
1	Cd 226.502†	5856.3	6995.6	-1.6102 µg/L	-1.6102 ppb	09:04:24
1	Co 228.616†	729.0	1028.7	-10.432 µg/L	-10.432 ppb	09:04:24
1	Cr 267.716†	354.8	236.4	-1.0724 µg/L	-1.0724 ppb	09:04:24
1	Cu 324.752†	-15096.2	-20727.4	8.3015 µg/L	8.3015 ppb	09:04:24
1	Mn 257.610†	18016.1	20990.0	7.1585 µg/L	7.1585 ppb	09:04:22
1	Mo 202.031†	-868.3	-984.5	-3.8090 µg/L	-3.8090 ppb	09:04:24
1	Ni 231.604†	264.5	408.6	5.0192 µg/L	5.0192 ppb	09:04:24
1	P 214.914†	977.0	1172.1	70.312 µg/L	70.312 ppb	09:04:24
1	Pb 220.353†	-34.1	-102.0	-2.1820 µg/L	-2.1820 ppb	09:04:24
1	S 181.975 Axial†	116.1	44.3	35.186 µg/L	35.186 ppb	09:04:24
1	Sb 206.836†	154.8	101.1	3.3333 µg/L	3.3333 ppb	09:04:24
1	Se 196.026†	-409.1	-502.0	-20.1 µg/L	-20.1 ppb	09:04:24
1	SiO2†	1935.9	494.4	52.250 µg/L	52.250 ppb	09:04:24
1	Si 251.611†	-1907.0	-3170.3	-49.488 µg/L	-49.488 ppb	09:04:24
1	Sn 189.927†	140.3	167.4	11.280 µg/L	11.280 ppb	09:04:24
1	Ti 334.940†	25194.4	28653.0	-5.3501 µg/L	-5.3501 ppb	09:04:22
1	Tl 190.801†	-188.5	-104.8	-13.152 µg/L	-13.152 ppb	09:04:24
1	U 409.014†	227370.4	267657.7	16544 µg/L	16544 ppb	09:04:22
1	V 292.402†	6465.9	7296.8	0.1330 µg/L	0.1330 ppb	09:04:24
1	Zn 213.857†	8366.8	9246.3	10.848 µg/L	10.848 ppb	09:04:24
2	Sc RADIAL	135565.5	135565.5	90.4 %		09:04:14
2	Al 396.153Radial†	2329997.8	2578627.0	505800 µg/L	505800 ppb	09:04:12
2	Ca 317.933Radial†	7371784.7	8157545.6	486530 µg/L	486530 ppb	09:04:12
2	Fe 238.204 Radial†	6306633.8	6979264.0	461970 µg/L	461970 ppb	09:04:12
2	K 766.490 Radial†	2046.2	689.3	-50.120 µg/L	-50.120 ppb	09:04:14
2	Mg 279.077 IEC†	1103724.8	1221293.7	486250 µg/L	486250 ppb	09:04:12
2	Na 589.592 Radial†	3128701.2	3461341.2	511620 µg/L	511620 ppb	09:04:12
2	Sr 421.552†	4928.7	5710.0	8.7776 µg/L	8.7776 ppb	09:04:14
2	Sc 361.383	1512003.0	1512003.0	84.363 %		09:04:27
2	Y 371.029	891400.5	891400.5	82.646 %		09:04:27
2	Ag 328.068†	1911.8	-1661.9	-1.0774 µg/L	-1.0774 ppb	09:04:27
2	As 188.979†	-269.5	-305.6	6.7508 µg/L	6.7508 ppb	09:04:29
2	B 249.677†	4124.3	1485.4	23.403 µg/L	23.403 ppb	09:04:27
2	Ba 233.527†	569.8	813.7	-2.4509 µg/L	-2.4509 ppb	09:04:29
2	Be 313.107†	-15085.3	-16864.8	0.1600 µg/L	0.1600 ppb	09:04:27
2	Cd 226.502†	5924.8	7132.7	-0.9338 µg/L	-0.9338 ppb	09:04:29
2	Co 228.616†	645.6	936.9	-11.761 µg/L	-11.761 ppb	09:04:29
2	Cr 267.716†	188.8	43.1	-2.5927 µg/L	-2.5927 ppb	09:04:29
2	Cu 324.752†	-15141.0	-20924.8	7.8474 µg/L	7.8474 ppb	09:04:29
2	Mn 257.610†	17914.0	21041.4	7.1245 µg/L	7.1245 ppb	09:04:27
2	Mo 202.031†	-847.9	-968.7	-3.1803 µg/L	-3.1803 ppb	09:04:29
2	Ni 231.604†	220.5	359.0	4.4098 µg/L	4.4098 ppb	09:04:29
2	P 214.914†	1034.6	1249.6	87.358 µg/L	87.358 ppb	09:04:29
2	Pb 220.353†	-44.0	-114.0	-2.7339 µg/L	-2.7339 ppb	09:04:29

2	S 181.975 Axial†	117.5	47.0	37.365 µg/L	37.365 ppb	09:04:29
2	Sb 206.836†	140.7	85.8	1.3659 µg/L	1.3659 ppb	09:04:29
2	Se 196.026†	-377.1	-467.9	-6.05 µg/L	-6.05 ppb	09:04:29
2	SiO2†	1779.2	327.1	34.836 µg/L	34.836 ppb	09:04:29
2	Si 251.611†	-1874.4	-3149.9	-49.157 µg/L	-49.157 ppb	09:04:29
2	Sn 189.927†	106.5	128.8	8.6993 µg/L	8.6993 ppb	09:04:29
2	Ti 334.940†	25550.5	29316.1	-4.8104 µg/L	-4.8104 ppb	09:04:27
2	Tl 190.801†	-215.3	-138.4	-17.531 µg/L	-17.531 ppb	09:04:29
2	U 409.014†	224948.9	266962.2	16501 µg/L	16501 ppb	09:04:27
2	V 292.402†	6430.3	7316.5	-0.0366 µg/L	-0.0366 ppb	09:04:29
2	Zn 213.857†	8247.9	9185.4	10.277 µg/L	10.277 ppb	09:04:29
3	Sc RADIAL	135158.1	135158.1	90.1 %		09:04:18
3	Al 396.153Radial†	2315562.2	2570374.8	504180 µg/L	504180 ppb	09:04:16
3	Ca 317.933Radial†	7324764.6	8129940.6	484880 µg/L	484880 ppb	09:04:16
3	Fe 238.204 Radial†	6265812.2	6954986.6	460360 µg/L	460360 ppb	09:04:16
3	K 766.490 Radial†	2012.8	659.1	-61.149 µg/L	-61.149 ppb	09:04:18
3	Mg 279.077 IEC†	1095455.9	1215796.6	484060 µg/L	484060 ppb	09:04:16
3	Na 589.592 Radial†	3112355.9	3453633.2	510480 µg/L	510480 ppb	09:04:16
3	Sr 421.552†	4748.7	5526.7	8.3864 µg/L	8.3864 ppb	09:04:18
3	Sc 361.383	1517177.0	1517177.0	84.652 %		09:04:32
3	Y 371.029	895335.4	895335.4	83.011 %		09:04:32
3	Ag 328.068†	2045.0	-1512.3	-0.4888 µg/L	-0.4888 ppb	09:04:32
3	As 188.979†	-246.8	-277.7	15.232 µg/L	15.232 ppb	09:04:34
3	B 249.677†	4242.0	1607.7	25.329 µg/L	25.329 ppb	09:04:32
3	Ba 233.527†	695.7	960.1	-1.8083 µg/L	-1.8083 ppb	09:04:34
3	Be 313.107†	-15202.0	-16941.7	0.1241 µg/L	0.1241 ppb	09:04:32
3	Cd 226.502†	5857.4	7029.2	-1.4561 µg/L	-1.4561 ppb	09:04:34
3	Co 228.616†	727.6	1031.2	-10.435 µg/L	-10.435 ppb	09:04:34
3	Cr 267.716†	295.7	168.7	-1.5441 µg/L	-1.5441 ppb	09:04:34
3	Cu 324.752†	-14999.8	-20696.9	8.4574 µg/L	8.4574 ppb	09:04:34
3	Mn 257.610†	17929.4	20987.2	7.1444 µg/L	7.1444 ppb	09:04:32
3	Mo 202.031†	-846.3	-963.3	-3.1145 µg/L	-3.1145 ppb	09:04:34
3	Ni 231.604†	230.0	369.4	4.5375 µg/L	4.5375 ppb	09:04:34
3	P 214.914†	981.2	1182.4	72.568 µg/L	72.568 ppb	09:04:34
3	Pb 220.353†	-18.0	-83.2	-0.9089 µg/L	-0.9089 ppb	09:04:34
3	S 181.975 Axial†	153.6	89.3	71.194 µg/L	71.194 ppb	09:04:34
3	Sb 206.836†	153.8	100.7	3.2773 µg/L	3.2773 ppb	09:04:34
3	Se 196.026†	-367.5	-455.0	-1.64 µg/L	-1.64 ppb	09:04:34
3	SiO2†	1882.2	441.6	46.764 µg/L	46.764 ppb	09:04:34
3	Si 251.611†	-1870.8	-3138.1	-48.975 µg/L	-48.975 ppb	09:04:34
3	Sn 189.927†	109.4	131.7	8.8923 µg/L	8.8923 ppb	09:04:34
3	Ti 334.940†	25483.6	29133.8	-4.8366 µg/L	-4.8366 ppb	09:04:32
3	Tl 190.801†	-272.7	-205.4	-26.310 µg/L	-26.310 ppb	09:04:34
3	U 409.014†	225099.1	266230.4	16455 µg/L	16455 ppb	09:04:32
3	V 292.402†	6532.3	7411.1	0.5983 µg/L	0.5983 ppb	09:04:34
3	Zn 213.857†	8160.5	9048.8	9.6121 µg/L	9.6121 ppb	09:04:34

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1517827.9	84.688 %	0.3446			0.41%
Sc RADIAL	135239.1	90.1 %	0.20			0.22%
Y 371.029	895282.9	83.006 %	0.3575			0.43%
Ag 328.068†	-1614.1	-0.8462 µg/L	0.31399	-0.8462 ppb	0.31399	37.11%
Al 396.153Radial†	2570275.6	504160 µg/L	1647.9	504160 ppb	1647.9	0.33%
QC value within limits for Al 396.153Radial Recovery = 100.83%						
As 188.979†	-284.7	13.091 µg/L	5.5862	13.091 ppb	5.5862	42.67%
B 249.677†	1543.2	24.312 µg/L	0.9677	24.312 ppb	0.9677	3.98%
Ba 233.527†	930.0	-1.9404 µg/L	0.45891	-1.9404 ppb	0.45891	23.65%
Be 313.107†	-16915.5	0.1452 µg/L	0.01872	0.1452 ppb	0.01872	12.89%
Ca 317.933Radial†	8134791.3	485170 µg/L	1238.1	485170 ppb	1238.1	0.26%
QC value within limits for Ca 317.933Radial Recovery = 97.03%						
Cd 226.502†	7052.5	-1.3334 µg/L	0.35454	-1.3334 ppb	0.35454	26.59%
Co 228.616†	998.9	-10.876 µg/L	0.7661	-10.876 ppb	0.7661	7.04%
Cr 267.716†	149.4	-1.7364 µg/L	0.77817	-1.7364 ppb	0.77817	44.81%
Cu 324.752†	-20783.0	8.2021 µg/L	0.31693	8.2021 ppb	0.31693	3.86%
Fe 238.204 Radial†	6959708.3	460680 µg/L	1169.9	460680 ppb	1169.9	0.25%
QC value within limits for Fe 238.204 Radial Recovery = 92.14%						
K 766.490 Radial†	636.5	-70.196 µg/L	25.8178	-70.196 ppb	25.8178	36.78%
Mg 279.077 IEC†	1217446.9	484720 µg/L	1330.9	484720 ppb	1330.9	0.27%

QC value within limits for Mg 279.077 IEC Recovery = 96.94%							
Mn 257.610†	21006.2	7.1425 µg/L	0.01710	7.1425 ppb	0.01710	0.24%	
Mo 202.031†	-972.1	-3.3679 µg/L	0.38335	-3.3679 ppb	0.38335	11.38%	
Na 589.592 Radial†	3452150.8	510260 µg/L	1480.2	510260 ppb	1480.2	0.29%	
QC value within limits for Na 589.592 Radial Recovery = 102.05%							
Ni 231.604†	379.0	4.6555 µg/L	0.32140	4.6555 ppb	0.32140	6.90%	
P 214.914†	1201.4	76.746 µg/L	9.2590	76.746 ppb	9.2590	12.06%	
Pb 220.353†	-99.7	-1.9416 µg/L	0.93591	-1.9416 ppb	0.93591	48.20%	
S 181.975 Axial†	60.2	47.915 µg/L	20.1895	47.915 ppb	20.1895	42.14%	
Sb 206.836†	95.9	2.6589 µg/L	1.12006	2.6589 ppb	1.12006	42.13%	
Se 196.026†	-475.0	-9.25 µg/L	9.620	-9.25 ppb	9.620	103.98%	
SiO2†	421.1	44.617 µg/L	8.9033	44.617 ppb	8.9033	19.96%	
Si 251.611†	-3152.8	-49.207 µg/L	0.2597	-49.207 ppb	0.2597	0.53%	
Sn 189.927†	142.6	9.6238 µg/L	1.43738	9.6238 ppb	1.43738	14.94%	
Sr 421.552†	5691.4	8.7471 µg/L	0.34654	8.7471 ppb	0.34654	3.96%	
Ti 334.940†	29034.3	-4.9990 µg/L	0.30430	-4.9990 ppb	0.30430	6.09%	
Tl 190.801†	-149.5	-18.998 µg/L	6.7004	-18.998 ppb	6.7004	35.27%	
U 409.014†	266950.1	16500 µg/L	44.4	16500 ppb	44.4	0.27%	
QC value within limits for U 409.014 Recovery = 110.00%							
V 292.402†	7341.5	0.2316 µg/L	0.32875	0.2316 ppb	0.32875	141.96%	
Zn 213.857†	9160.2	10.246 µg/L	0.6183	10.246 ppb	0.6183	6.03%	
All analyte(s) passed QC.							

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 108

Date Collected: 3/31/2010 9:04:41

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	152044.8	152044.8	101 %		09:05:15
1	Al 396.153Radial†	2244.7	2288.8	-9.0241 µg/L	-9.0241 ppb	09:05:17
1	Ca 317.933Radial†	1277.3	627.4	37.417 µg/L	37.417 ppb	09:05:17
1	Fe 238.204 Radial†	-654.0	-782.8	-51.814 µg/L	-51.814 ppb	09:05:17
1	K 766.490 Radial†	761684.5	750001.6	298940 µg/L	298940 ppb	09:05:15
1	Mg 279.077 IEC†	-394.6	-561.6	17.481 µg/L	17.481 ppb	09:05:17
1	Na 589.592 Radial†	4229.8	3055.8	185.81 µg/L	185.81 ppb	09:05:17
1	Sr 421.552†	4339138.4	4281812.5	9437.7 µg/L	9437.7 ppb	09:05:13
1	Sc 361.383	1735492.4	1735492.4	96.833 %		09:05:53
1	Y 371.029	1016562.2	1016562.2	94.251 %		09:05:53
1	Ag 328.068†	-28769.0	-33638.1	-11.842 µg/L	-11.842 ppb	09:05:55
1	As 188.979†	31318.0	32356.2	10509 µg/L	10509 ppb	09:05:55
1	B 249.677†	315698.0	322620.5	5059.0 µg/L	5059.0 ppb	09:05:53
1	Ba 233.527†	3181109.3	3285295.2	13962 µg/L	13962 ppb	09:05:53
1	Be 313.107†	9887637.0	10212058.3	2938.1 µg/L	2938.1 ppb	09:05:50
1	Cd 226.502†	1432306.1	1479263.7	9886.0 µg/L	9886.0 ppb	09:05:53
1	Co 228.616†	704433.2	727645.3	9597.8 µg/L	9597.8 ppb	09:05:53
1	Cr 267.716†	2845204.5	2938084.7	24377 µg/L	24377 ppb	09:05:53
1	Cu 324.752†	4785681.3	4939233.9	20373 µg/L	20373 ppb	09:05:53
1	Mn 257.610†	7046749.5	7277041.4	9556.5 µg/L	9556.5 ppb	09:05:53
1	Mo 202.031†	304738.2	314742.0	9864.3 µg/L	9864.3 ppb	09:05:55
1	Ni 231.604†	783978.2	809718.1	9947.1 µg/L	9947.1 ppb	09:05:53
1	P 214.914†	65372.8	67534.3	15336 µg/L	15336 ppb	09:05:55
1	Pb 220.353†	393505.2	406314.0	24258 µg/L	24258 ppb	09:05:53
1	S 181.975 Axial†	63915.2	65913.5	52848 µg/L	52848 ppb	09:05:55
1	Sb 206.836†	77245.8	79691.4	9957.0 µg/L	9957.0 ppb	09:05:55
1	Se 196.026†	24806.9	25597.4	9970 µg/L	9970 ppb	09:05:55
1	SiO2†	955833.8	985315.4	102280 µg/L	102280 ppb	09:05:53
1	Si 251.611†	2948716.1	3044234.6	47647 µg/L	47647 ppb	09:05:53
1	Sn 189.927†	145761.8	150531.8	10090 µg/L	10090 ppb	09:05:55
1	Ti 334.940†	9980633.8	10306109.9	10162 µg/L	10162 ppb	09:05:50
1	Tl 190.801†	71185.1	73630.2	9790.9 µg/L	9790.9 ppb	09:05:55
1	U 409.014†	-11758.3	-11824.4	-115.72 µg/L	-115.72 ppb	09:05:55
1	V 292.402†	1902045.3	1963951.7	10368 µg/L	10368 ppb	09:05:53
1	Zn 213.857†	2364981.3	2441743.8	14619 µg/L	14619 ppb	09:05:53
2	Sc RADIAL	148253.4	148253.4	98.8 %		09:05:21
2	Al 396.153Radial†	2365.4	2467.6	26.261 µg/L	26.261 ppb	09:05:23
2	Ca 317.933Radial†	1200.1	581.4	34.677 µg/L	34.677 ppb	09:05:23
2	Fe 238.204 Radial†	-643.3	-788.5	-52.191 µg/L	-52.191 ppb	09:05:23
2	K 766.490 Radial†	747645.5	755015.1	300930 µg/L	300930 ppb	09:05:21
2	Mg 279.077 IEC†	-498.8	-677.0	-28.613 µg/L	-28.613 ppb	09:05:23
2	Na 589.592 Radial†	3930.1	2859.2	154.98 µg/L	154.98 ppb	09:05:23
2	Sr 421.552†	4350427.9	4402731.7	9704.2 µg/L	9704.2 ppb	09:05:19
2	Sc 361.383	1732192.4	1732192.4	96.649 %		09:06:03
2	Y 371.029	1013481.0	1013481.0	93.965 %		09:06:03
2	Ag 328.068†	-28448.6	-33363.1	-10.791 µg/L	-10.791 ppb	09:06:05
2	As 188.979†	31099.2	32191.4	10457 µg/L	10457 ppb	09:06:05
2	B 249.677†	314843.1	322357.0	5054.8 µg/L	5054.8 ppb	09:06:03
2	Ba 233.527†	3175134.9	3285372.2	13962 µg/L	13962 ppb	09:06:03
2	Be 313.107†	9812283.7	10153545.1	2921.3 µg/L	2921.3 ppb	09:05:59
2	Cd 226.502†	1428182.8	1477815.4	9876.3 µg/L	9876.3 ppb	09:06:03
2	Co 228.616†	702659.0	727195.6	9591.9 µg/L	9591.9 ppb	09:06:03
2	Cr 267.716†	2838191.9	2936426.6	24363 µg/L	24363 ppb	09:06:03
2	Cu 324.752†	4778483.3	4941201.6	20381 µg/L	20381 ppb	09:06:03
2	Mn 257.610†	7030735.4	7274335.8	9553.0 µg/L	9553.0 ppb	09:06:03
2	Mo 202.031†	304019.5	314597.9	9859.8 µg/L	9859.8 ppb	09:06:05
2	Ni 231.604†	781307.3	808497.0	9932.1 µg/L	9932.1 ppb	09:06:03
2	P 214.914†	65048.4	67327.2	15288 µg/L	15288 ppb	09:06:05
2	Pb 220.353†	392805.2	406363.9	24261 µg/L	24261 ppb	09:06:03

2	S 181.975 Axial†	63801.6	65921.7	52854 µg/L	52854 ppb	09:06:05
2	Sb 206.836†	77037.0	79627.3	9948.9 µg/L	9948.9 ppb	09:06:05
2	Se 196.026†	24823.6	25663.5	10000 µg/L	10000 ppb	09:06:05
2	SiO2†	953981.3	985279.2	102280 µg/L	102280 ppb	09:06:03
2	Si 251.611†	2943217.7	3044346.8	47649 µg/L	47649 ppb	09:06:03
2	Sn 189.927†	145155.4	150191.2	10067 µg/L	10067 ppb	09:06:05
2	Ti 334.940†	9912077.4	10254812.2	10111 µg/L	10111 ppb	09:05:59
2	Tl 190.801†	70976.1	73554.0	9780.5 µg/L	9780.5 ppb	09:06:05
2	U 409.014†	-11935.2	-12030.6	-128.58 µg/L	-128.58 ppb	09:06:05
2	V 292.402†	1898264.6	1963782.0	10367 µg/L	10367 ppb	09:06:03
2	Zn 213.857†	2359611.7	2440840.8	14614 µg/L	14614 ppb	09:06:03
3	Sc RADIAL	149064.9	149064.9	99.4 %		09:05:28
3	Al 396.153Radial†	2288.5	2377.2	2.5602 µg/L	2.5602 ppb	09:05:30
3	Ca 317.933Radial†	1186.9	561.5	33.490 µg/L	33.490 ppb	09:05:30
3	Fe 238.204 Radial†	-703.5	-845.6	-55.970 µg/L	-55.970 ppb	09:05:30
3	K 766.490 Radial†	753846.1	757136.8	301780 µg/L	301780 ppb	09:05:28
3	Mg 279.077 IEC†	-484.8	-660.2	-18.749 µg/L	-18.749 ppb	09:05:30
3	Na 589.592 Radial†	3563.1	2468.2	96.426 µg/L	96.426 ppb	09:05:30
3	Sr 421.552†	4320721.6	4348866.5	9585.5 µg/L	9585.5 ppb	09:05:26
3	Sc 361.383	1734266.2	1734266.2	96.764 %		09:06:12
3	Y 371.029	1016235.7	1016235.7	94.220 %		09:06:12
3	Ag 328.068†	-28647.1	-33533.1	-11.171 µg/L	-11.171 ppb	09:06:15
3	As 188.979†	31669.9	32742.6	10632 µg/L	10632 ppb	09:06:15
3	B 249.677†	316052.2	323217.1	5068.3 µg/L	5068.3 ppb	09:06:12
3	Ba 233.527†	3184654.9	3291282.1	13987 µg/L	13987 ppb	09:06:12
3	Be 313.107†	9885352.1	10216916.5	2939.5 µg/L	2939.5 ppb	09:06:09
3	Cd 226.502†	1431994.7	1479987.7	9890.9 µg/L	9890.9 ppb	09:06:12
3	Co 228.616†	704707.6	728443.3	9608.3 µg/L	9608.3 ppb	09:06:12
3	Cr 267.716†	2845821.1	2940799.4	24399 µg/L	24399 ppb	09:06:12
3	Cu 324.752†	4793149.5	4950446.1	20419 µg/L	20419 ppb	09:06:12
3	Mn 257.610†	7051765.3	7287370.2	9570.1 µg/L	9570.1 ppb	09:06:12
3	Mo 202.031†	308349.9	318697.0	9988.2 µg/L	9988.2 ppb	09:06:15
3	Ni 231.604†	783535.7	809833.3	9948.6 µg/L	9948.6 ppb	09:06:12
3	P 214.914†	66392.5	68635.8	15589 µg/L	15589 ppb	09:06:15
3	Pb 220.353†	393771.2	406876.3	24292 µg/L	24292 ppb	09:06:12
3	S 181.975 Axial†	65149.1	67235.4	53907 µg/L	53907 ppb	09:06:15
3	Sb 206.836†	78307.7	80845.2	10106 µg/L	10106 ppb	09:06:15
3	Se 196.026†	25144.1	25963.9	10100 µg/L	10100 ppb	09:06:15
3	SiO2†	957337.6	987567.4	102510 µg/L	102510 ppb	09:06:12
3	Si 251.611†	2954957.2	3052837.5	47779 µg/L	47779 ppb	09:06:12
3	Sn 189.927†	147571.9	152508.9	10222 µg/L	10222 ppb	09:06:15
3	Ti 334.940†	9977470.6	10310128.4	10166 µg/L	10166 ppb	09:06:09
3	Tl 190.801†	71948.0	74470.6	9901.1 µg/L	9901.1 ppb	09:06:15
3	U 409.014†	-12023.7	-12107.3	-131.88 µg/L	-131.88 ppb	09:06:15
3	V 292.402†	1905071.9	1968468.3	10393 µg/L	10393 ppb	09:06:12
3	Zn 213.857†	2364502.3	2442975.5	14627 µg/L	14627 ppb	09:06:12

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1733983.6	96.749 %	0.0931			0.10%
Sc RADIAL	149787.7	99.8 %	1.33			1.33%
Y 371.029	1015426.3	94.145 %	0.1569			0.17%
Ag 328.068†	-33511.4	-11.268 µg/L	0.5321	-11.268 ppb	0.5321	4.72%
Al 396.153Radial†	2377.9	6.5990 µg/L	17.98580	6.5990 ppb	17.98580	272.55%
As 188.979†	32430.1	10533 µg/L	90.0	10533 ppb	90.0	0.85%
QC value within limits for As 188.979 Recovery = 105.33%						
B 249.677†	322731.5	5060.7 µg/L	6.93	5060.7 ppb	6.93	0.14%
QC value within limits for B 249.677 Recovery = 101.21%						
Ba 233.527†	3287316.5	13970 µg/L	14.6	13970 ppb	14.6	0.10%
QC value within limits for Ba 233.527 Recovery = 93.13%						
Be 313.107†	10194173.3	2933.0 µg/L	10.15	2933.0 ppb	10.15	0.35%
QC value within limits for Be 313.107 Recovery = 97.77%						
Ca 317.933Radial†	590.1	35.195 µg/L	2.0142	35.195 ppb	2.0142	5.72%
Cd 226.502†	1479022.3	9884.4 µg/L	7.39	9884.4 ppb	7.39	0.07%
QC value within limits for Cd 226.502 Recovery = 98.84%						
Co 228.616†	727761.4	9599.3 µg/L	8.34	9599.3 ppb	8.34	0.09%
QC value within limits for Co 228.616 Recovery = 95.99%						
Cr 267.716†	2938436.9	24380 µg/L	18.3	24380 ppb	18.3	0.08%
QC value within limits for Cr 267.716 Recovery = 97.52%						

Cu 324.752†	4943627.2	20391 µg/L	24.7	20391 ppb	24.7	0.12%
QC value within limits for Cu 324.752 Recovery = 101.96%						
Fe 238.204 Radial†	-805.6	-53.325 µg/L	2.2981	-53.325 ppb	2.2981	4.31%
K 766.490 Radial†	754051.2	300550 µg/L	1460.4	300550 ppb	1460.4	0.49%
QC value within limits for K 766.490 Radial Recovery = 100.18%						
Mg 279.077 IEC†	-632.9	-9.9606 µg/L	24.27117	-9.9606 ppb	24.27117	243.67%
Mn 257.610†	7279582.5	9559.9 µg/L	9.03	9559.9 ppb	9.03	0.09%
QC value within limits for Mn 257.610 Recovery = 95.60%						
Mo 202.031†	316012.3	9904.1 µg/L	72.88	9904.1 ppb	72.88	0.74%
QC value within limits for Mo 202.031 Recovery = 99.04%						
Na 589.592 Radial†	2794.4	145.74 µg/L	45.405	145.74 ppb	45.405	31.15%
Ni 231.604†	809349.5	9942.6 µg/L	9.10	9942.6 ppb	9.10	0.09%
QC value within limits for Ni 231.604 Recovery = 99.43%						
P 214.914†	67832.5	15404 µg/L	161.9	15404 ppb	161.9	1.05%
QC value within limits for P 214.914 Recovery = 102.70%						
Pb 220.353†	406518.1	24270 µg/L	18.8	24270 ppb	18.8	0.08%
QC value within limits for Pb 220.353 Recovery = 97.08%						
S 181.975 Axial†	66356.9	53203 µg/L	609.7	53203 ppb	609.7	1.15%
QC value within limits for S 181.975 Axial Recovery = 106.41%						
Sb 206.836†	80054.7	10004 µg/L	88.2	10004 ppb	88.2	0.88%
QC value within limits for Sb 206.836 Recovery = 100.04%						
Se 196.026†	25741.6	10000 µg/L	76.1	10000 ppb	76.1	0.76%
QC value within limits for Se 196.026 Recovery = 100.30%						
SiO2†	986054.0	102350 µg/L	133.4	102350 ppb	133.4	0.13%
QC value within limits for SiO2 Recovery = 95.66%						
Si 251.611†	3047139.6	47691 µg/L	76.0	47691 ppb	76.0	0.16%
QC value within limits for Si 251.611 Recovery = 95.38%						
Sn 189.927†	151077.3	10126 µg/L	83.7	10126 ppb	83.7	0.83%
QC value within limits for Sn 189.927 Recovery = 101.26%						
Sr 421.552†	4344470.2	9575.8 µg/L	133.53	9575.8 ppb	133.53	1.39%
QC value within limits for Sr 421.552 Recovery = 95.76%						
Ti 334.940†	10290350.2	10146 µg/L	30.4	10146 ppb	30.4	0.30%
QC value within limits for Ti 334.940 Recovery = 101.46%						
Tl 190.801†	73885.0	9824.2 µg/L	66.85	9824.2 ppb	66.85	0.68%
QC value within limits for Tl 190.801 Recovery = 98.24%						
U 409.014†	-11987.4	-125.40 µg/L	8.539	-125.40 ppb	8.539	6.81%
V 292.402†	1965400.7	10376 µg/L	14.6	10376 ppb	14.6	0.14%
QC value within limits for V 292.402 Recovery = 103.76%						
Zn 213.857†	2441853.4	14620 µg/L	6.4	14620 ppb	6.4	0.04%
QC value within limits for Zn 213.857 Recovery = 97.47%						
All analyte(s) passed QC.						

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Analysis Begun

Start Time: 3/31/2010 9:17:37

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: 033110A

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 8:46:38

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 9:17:40

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	152612.8	152612.8	102 %		09:18:12
1	Al 396.153Radial†	26428.6	26054.7	5087.3 µg/L	5087.3 ppb	09:18:12
1	Ca 317.933Radial†	87726.6	85607.3	5105.7 µg/L	5105.7 ppb	09:18:12
1	Fe 238.204 Radial†	78218.4	76755.6	5080.6 µg/L	5080.6 ppb	09:18:12

1	K 766.490 Radial†	14531.4	12710.0	5061.8 µg/L	5061.8 ppb	09:18:12
1	Mg 279.077 IEC†	13542.1	13140.4	5244.0 µg/L	5244.0 ppb	09:18:12
1	Na 589.592 Radial†	70298.0	67989.0	10045 µg/L	10045 ppb	09:18:12
1	Sr 421.552†	225859.9	222288.7	489.91 µg/L	489.91 ppb	09:18:10
1	Sc 361.383	1784654.3	1784654.3	99.576 %		09:18:25
1	Y 371.029	1062001.5	1062001.5	98.464 %		09:18:25
1	Ag 328.068†	130533.6	127161.5	504.52 µg/L	504.52 ppb	09:18:25
1	As 188.979†	1567.6	1588.1	510.42 µg/L	510.42 ppb	09:18:45
1	B 249.677†	35116.1	31862.4	501.15 µg/L	501.15 ppb	09:18:25
1	Ba 233.527†	118064.8	118706.0	504.53 µg/L	504.53 ppb	09:18:25
1	Be 313.107†	1746268.8	1754724.4	505.03 µg/L	505.03 ppb	09:18:25
1	Cd 226.502†	75245.5	75675.8	505.21 µg/L	505.21 ppb	09:18:25
1	Co 228.616†	38288.1	38622.8	508.80 µg/L	508.80 ppb	09:18:25
1	Cr 267.716†	60384.9	60461.4	501.44 µg/L	501.44 ppb	09:18:25
1	Cu 324.752†	123890.7	121441.1	502.35 µg/L	502.35 ppb	09:18:25
1	Mn 257.610†	384835.1	386281.4	507.06 µg/L	507.06 ppb	09:18:25
1	Mo 202.031†	15931.4	16035.7	502.86 µg/L	502.86 ppb	09:18:45
1	Ni 231.604†	40986.0	41258.2	506.84 µg/L	506.84 ppb	09:18:25
1	P 214.914†	10845.0	10914.5	2508.3 µg/L	2508.3 ppb	09:18:45
1	Pb 220.353†	8568.1	8542.7	510.99 µg/L	510.99 ppb	09:18:45
1	S 181.975 Axial†	1352.5	1266.0	1017.7 µg/L	1017.7 ppb	09:18:45
1	Sb 206.836†	3989.5	3925.5	501.10 µg/L	501.10 ppb	09:18:45
1	Se 196.026†	1296.4	1281.0	501 µg/L	501 ppb	09:18:45
1	SiO2†	54106.0	52554.7	5456.5 µg/L	5456.5 ppb	09:18:25
1	Si 251.611†	162997.0	162763.3	2548.0 µg/L	2548.0 ppb	09:18:25
1	Sn 189.927†	7508.3	7542.8	505.56 µg/L	505.56 ppb	09:18:45
1	Ti 334.940†	509455.0	510655.0	503.25 µg/L	503.25 ppb	09:18:25
1	Tl 190.801†	3744.6	3877.3	514.98 µg/L	514.98 ppb	09:18:45
1	U 409.014†	6921.4	7269.3	482.00 µg/L	482.00 ppb	09:18:25
1	V 292.402†	96160.0	96264.0	505.21 µg/L	505.21 ppb	09:18:25
1	Zn 213.857†	84460.7	84229.1	502.96 µg/L	502.96 ppb	09:18:25
2	Sc RADIAL	148285.2	148285.2	98.8 %		09:18:16
2	Al 396.153Radial†	25839.5	26217.0	5118.6 µg/L	5118.6 ppb	09:18:16
2	Ca 317.933Radial†	85138.0	85505.1	5099.6 µg/L	5099.6 ppb	09:18:16
2	Fe 238.204 Radial†	75889.8	76643.8	5073.2 µg/L	5073.2 ppb	09:18:16
2	K 766.490 Radial†	14306.6	12899.5	5137.4 µg/L	5137.4 ppb	09:18:16
2	Mg 279.077 IEC†	13032.4	13013.2	5193.5 µg/L	5193.5 ppb	09:18:16
2	Na 589.592 Radial†	68571.9	68259.5	10085 µg/L	10085 ppb	09:18:16
2	Sr 421.552†	226682.5	229600.9	506.03 µg/L	506.03 ppb	09:18:14
2	Sc 361.383	1758415.0	1758415.0	98.112 %		09:18:48
2	Y 371.029	1046623.9	1046623.9	97.038 %		09:18:48
2	Ag 328.068†	128560.4	127106.6	504.33 µg/L	504.33 ppb	09:18:48
2	As 188.979†	1566.5	1610.4	517.53 µg/L	517.53 ppb	09:19:08
2	B 249.677†	34410.8	31669.7	498.12 µg/L	498.12 ppb	09:18:48
2	Ba 233.527†	115794.6	118161.4	502.22 µg/L	502.22 ppb	09:18:48
2	Be 313.107†	1716587.6	1750641.0	503.86 µg/L	503.86 ppb	09:18:48
2	Cd 226.502†	73943.0	75475.9	503.88 µg/L	503.88 ppb	09:18:48
2	Co 228.616†	37567.0	38461.6	506.68 µg/L	506.68 ppb	09:18:48
2	Cr 267.716†	59560.7	60526.3	501.97 µg/L	501.97 ppb	09:18:48
2	Cu 324.752†	121827.1	121194.3	501.34 µg/L	501.34 ppb	09:18:48
2	Mn 257.610†	378416.5	385506.4	506.05 µg/L	506.05 ppb	09:18:48
2	Mo 202.031†	16012.3	16356.9	512.93 µg/L	512.93 ppb	09:19:08
2	Ni 231.604†	40244.9	41117.1	505.11 µg/L	505.11 ppb	09:18:48
2	P 214.914†	10907.3	11140.5	2560.4 µg/L	2560.4 ppb	09:19:08
2	Pb 220.353†	8582.3	8685.6	519.53 µg/L	519.53 ppb	09:19:08
2	S 181.975 Axial†	1358.5	1292.4	1038.9 µg/L	1038.9 ppb	09:19:08
2	Sb 206.836†	4014.9	4011.2	512.17 µg/L	512.17 ppb	09:19:08
2	Se 196.026†	1313.0	1317.3	516 µg/L	516 ppb	09:19:08
2	SiO2†	53164.8	52406.2	5440.6 µg/L	5440.6 ppb	09:18:48
2	Si 251.611†	160349.0	162506.9	2543.8 µg/L	2543.8 ppb	09:18:48
2	Sn 189.927†	7556.3	7704.2	516.34 µg/L	516.34 ppb	09:19:08
2	Ti 334.940†	501282.1	509959.3	502.56 µg/L	502.56 ppb	09:18:48
2	Tl 190.801†	3740.5	3929.3	521.79 µg/L	521.79 ppb	09:19:08
2	U 409.014†	7069.8	7524.4	497.87 µg/L	497.87 ppb	09:18:48
2	V 292.402†	94863.3	96383.3	505.95 µg/L	505.95 ppb	09:18:48
2	Zn 213.857†	82727.8	83728.6	499.96 µg/L	499.96 ppb	09:18:48
3	Sc RADIAL	150715.7	150715.7	100 %		09:18:20
3	Al 396.153Radial†	26004.7	25959.8	5068.6 µg/L	5068.6 ppb	09:18:20
3	Ca 317.933Radial†	86359.3	85331.7	5089.3 µg/L	5089.3 ppb	09:18:20
3	Fe 238.204 Radial†	76873.6	76384.9	5056.1 µg/L	5056.1 ppb	09:18:20
3	K 766.490 Radial†	14198.2	12558.1	5001.3 µg/L	5001.3 ppb	09:18:20

3	Mg 279.077 IEC†	13243.9	13011.2	5192.5 µg/L	5192.5 ppb	09:18:20
3	Na 589.592 Radial†	69453.7	68018.5	10049 µg/L	10049 ppb	09:18:20
3	Sr 421.552†	229272.7	228480.7	503.56 µg/L	503.56 ppb	09:18:18
3	Sc 361.383	1782483.3	1782483.3	99.455 %		09:19:11
3	Y 371.029	1060279.1	1060279.1	98.304 %		09:19:11
3	Ag 328.068†	130219.4	127005.3	503.94 µg/L	503.94 ppb	09:19:11
3	As 188.979†	1571.1	1593.5	512.14 µg/L	512.14 ppb	09:19:31
3	B 249.677†	35113.6	31902.8	501.80 µg/L	501.80 ppb	09:19:11
3	Ba 233.527†	117518.7	118301.4	502.82 µg/L	502.82 ppb	09:19:11
3	Be 313.107†	1741916.0	1752483.7	504.39 µg/L	504.39 ppb	09:19:11
3	Cd 226.502†	75333.0	75855.8	506.42 µg/L	506.42 ppb	09:19:11
3	Co 228.616†	38083.8	38464.2	506.71 µg/L	506.71 ppb	09:19:11
3	Cr 267.716†	60289.2	60439.1	501.24 µg/L	501.24 ppb	09:19:11
3	Cu 324.752†	123541.2	121241.1	501.53 µg/L	501.53 ppb	09:19:11
3	Mn 257.610†	383753.1	385664.2	506.25 µg/L	506.25 ppb	09:19:11
3	Mo 202.031†	15972.3	16096.3	504.76 µg/L	504.76 ppb	09:19:31
3	Ni 231.604†	40936.0	41258.0	506.84 µg/L	506.84 ppb	09:19:11
3	P 214.914†	10905.5	10988.6	2525.4 µg/L	2525.4 ppb	09:19:31
3	Pb 220.353†	8567.6	8552.6	511.57 µg/L	511.57 ppb	09:19:31
3	S 181.975 Axial†	1350.1	1265.3	1017.1 µg/L	1017.1 ppb	09:19:31
3	Sb 206.836†	4010.7	3951.7	504.47 µg/L	504.47 ppb	09:19:31
3	Se 196.026†	1322.2	1308.5	512 µg/L	512 ppb	09:19:31
3	SiO2†	53958.1	52472.1	5447.8 µg/L	5447.8 ppb	09:19:11
3	Si 251.611†	162749.6	162713.9	2547.2 µg/L	2547.2 ppb	09:19:11
3	Sn 189.927†	7538.8	7582.6	508.22 µg/L	508.22 ppb	09:19:31
3	Ti 334.940†	507695.1	509508.6	502.12 µg/L	502.12 ppb	09:19:11
3	Tl 190.801†	3712.0	3849.1	511.30 µg/L	511.30 ppb	09:19:31
3	U 409.014†	7218.8	7576.8	501.14 µg/L	501.14 ppb	09:19:11
3	V 292.402†	96164.6	96386.3	505.88 µg/L	505.88 ppb	09:19:11
3	Zn 213.857†	84034.7	83904.2	501.00 µg/L	501.00 ppb	09:19:11

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1775184.2	99.047 %	0.8126			0.82%
Sc RADIAL	150537.9	100 %	1.4			1.44%
Y 371.029	1056301.5	97.935 %	0.7811			0.80%
Ag 328.068†	127091.1	504.26 µg/L	0.296	504.26 ppb	0.296	0.06%
QC value within limits for Ag 328.068 Recovery = 100.85%						
Al 396.153Radial†	26077.2	5091.5 µg/L	25.30	5091.5 ppb	25.30	0.50%
QC value within limits for Al 396.153Radial Recovery = 101.83%						
As 188.979†	1597.4	513.36 µg/L	3.708	513.36 ppb	3.708	0.72%
QC value within limits for As 188.979 Recovery = 102.67%						
B 249.677†	31811.6	500.35 µg/L	1.964	500.35 ppb	1.964	0.39%
QC value within limits for B 249.677 Recovery = 100.07%						
Ba 233.527†	118389.6	503.19 µg/L	1.199	503.19 ppb	1.199	0.24%
QC value within limits for Ba 233.527 Recovery = 100.64%						
Be 313.107†	1752616.4	504.43 µg/L	0.586	504.43 ppb	0.586	0.12%
QC value within limits for Be 313.107 Recovery = 100.89%						
Ca 317.933Radial†	85481.4	5098.2 µg/L	8.31	5098.2 ppb	8.31	0.16%
QC value within limits for Ca 317.933Radial Recovery = 101.96%						
Cd 226.502†	75669.2	505.17 µg/L	1.271	505.17 ppb	1.271	0.25%
QC value within limits for Cd 226.502 Recovery = 101.03%						
Co 228.616†	38516.2	507.40 µg/L	1.216	507.40 ppb	1.216	0.24%
QC value within limits for Co 228.616 Recovery = 101.48%						
Cr 267.716†	60475.6	501.55 µg/L	0.375	501.55 ppb	0.375	0.07%
QC value within limits for Cr 267.716 Recovery = 100.31%						
Cu 324.752†	121292.2	501.74 µg/L	0.535	501.74 ppb	0.535	0.11%
QC value within limits for Cu 324.752 Recovery = 100.35%						
Fe 238.204 Radial†	76594.8	5070.0 µg/L	12.59	5070.0 ppb	12.59	0.25%
QC value within limits for Fe 238.204 Radial Recovery = 101.40%						
K 766.490 Radial†	12722.5	5066.8 µg/L	68.16	5066.8 ppb	68.16	1.35%
QC value within limits for K 766.490 Radial Recovery = 101.34%						
Mg 279.077 IEC†	13054.9	5210.0 µg/L	29.40	5210.0 ppb	29.40	0.56%
QC value within limits for Mg 279.077 IEC Recovery = 104.20%						
Mn 257.610†	385817.3	506.45 µg/L	0.537	506.45 ppb	0.537	0.11%
QC value within limits for Mn 257.610 Recovery = 101.29%						
Mo 202.031†	16163.0	506.85 µg/L	5.347	506.85 ppb	5.347	1.06%
QC value within limits for Mo 202.031 Recovery = 101.37%						
Na 589.592 Radial†	68089.0	10060 µg/L	21.9	10060 ppb	21.9	0.22%

QC value within limits for Na 589.592 Radial Recovery = 100.60%

Ni 231.604†	41211.1	506.27 µg/L	1.000	506.27 ppb	1.000	0.20%
QC value within limits for Ni 231.604 Recovery = 101.25%						
P 214.914†	11014.6	2531.4 µg/L	26.57	2531.4 ppb	26.57	1.05%
QC value within limits for P 214.914 Recovery = 101.26%						
Pb 220.353†	8593.7	514.03 µg/L	4.770	514.03 ppb	4.770	0.93%
QC value within limits for Pb 220.353 Recovery = 102.81%						
S 181.975 Axial†	1274.6	1024.6 µg/L	12.42	1024.6 ppb	12.42	1.21%
QC value within limits for S 181.975 Axial Recovery = 102.46%						
Sb 206.836†	3962.8	505.92 µg/L	5.673	505.92 ppb	5.673	1.12%
QC value within limits for Sb 206.836 Recovery = 101.18%						
Se 196.026†	1302.3	510 µg/L	7.4	510 ppb	7.4	1.45%
QC value within limits for Se 196.026 Recovery = 101.94%						
SiO2†	52477.7	5448.3 µg/L	7.97	5448.3 ppb	7.97	0.15%
QC value within limits for SiO2 Recovery = 101.88%						
Si 251.611†	162661.4	2546.3 µg/L	2.25	2546.3 ppb	2.25	0.09%
QC value within limits for Si 251.611 Recovery = 101.85%						
Sn 189.927†	7609.9	510.04 µg/L	5.616	510.04 ppb	5.616	1.10%
QC value within limits for Sn 189.927 Recovery = 102.01%						
Sr 421.552†	226790.1	499.84 µg/L	8.681	499.84 ppb	8.681	1.74%
QC value within limits for Sr 421.552 Recovery = 99.97%						
Ti 334.940†	510041.0	502.64 µg/L	0.572	502.64 ppb	0.572	0.11%
QC value within limits for Ti 334.940 Recovery = 100.53%						
Tl 190.801†	3885.2	516.02 µg/L	5.325	516.02 ppb	5.325	1.03%
QC value within limits for Tl 190.801 Recovery = 103.20%						
U 409.014†	7456.8	493.67 µg/L	10.237	493.67 ppb	10.237	2.07%
QC value within limits for U 409.014 Recovery = 98.73%						
V 292.402†	96344.5	505.68 µg/L	0.407	505.68 ppb	0.407	0.08%
QC value within limits for V 292.402 Recovery = 101.14%						
Zn 213.857†	83954.0	501.31 µg/L	1.522	501.31 ppb	1.522	0.30%
QC value within limits for Zn 213.857 Recovery = 100.26%						

All analyte(s) passed QC.

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 9:19:39

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	150828.8	150828.8	101 %			09:20:08
1	Al 396.153Radial†	-51.5	22.7	4.4140 µg/L		4.4140 ppb	09:20:28
1	Ca 317.933Radial†	674.8	38.2	2.2785 µg/L		2.2785 ppb	09:20:28
1	Fe 238.204 Radial†	175.5	37.0	2.4517 µg/L		2.4517 ppb	09:20:28
1	K 766.490 Radial†	1618.0	34.2	13.625 µg/L		13.625 ppb	09:20:08
1	Mg 279.077 IEC†	174.9	1.7	0.6972 µg/L		0.6972 ppb	09:20:28
1	Na 589.592 Radial†	1442.7	317.1	46.865 µg/L		46.865 ppb	09:20:08
1	Sr 421.552†	-173.2	83.3	0.1836 µg/L		0.1836 ppb	09:20:08
1	Sc 361.383	1801507.9	1801507.9	100.52 %			09:21:30
1	Y 371.029	1083746.0	1083746.0	100.48 %			09:21:30
1	Ag 328.068†	3714.3	-232.8	-0.9068 µg/L		-0.9068 ppb	09:21:32
1	As 188.979†	-13.6	0.3	0.0818 µg/L		0.0818 ppb	09:21:52
1	B 249.677†	3327.8	-92.7	-1.4628 µg/L		-1.4628 ppb	09:21:32
1	Ba 233.527†	-120.6	18.3	0.0782 µg/L		0.0782 ppb	09:21:52
1	Be 313.107†	-815.5	205.3	0.0593 µg/L		0.0593 ppb	09:21:32
1	Cd 226.502†	-120.5	-10.1	-0.0677 µg/L		-0.0677 ppb	09:21:52
1	Co 228.616†	-174.1	-1.6	-0.0209 µg/L		-0.0209 ppb	09:21:52
1	Cr 267.716†	166.8	-14.8	-0.1231 µg/L		-0.1231 ppb	09:21:52
1	Cu 324.752†	2965.9	-26.8	-0.1095 µg/L		-0.1095 ppb	09:21:32
1	Mn 257.610†	286.3	91.8	0.1205 µg/L		0.1205 ppb	09:21:52
1	Mo 202.031†	-12.5	24.0	0.7525 µg/L		0.7525 ppb	09:21:52
1	Ni 231.604†	-84.1	13.9	0.1709 µg/L		0.1709 ppb	09:21:52
1	P 214.914†	-14.1	9.3	2.1483 µg/L		2.1483 ppb	09:21:52
1	Pb 220.353†	103.0	40.6	2.4224 µg/L		2.4224 ppb	09:21:52
1	S 181.975 Axial†	97.0	4.2	3.4015 µg/L		3.4015 ppb	09:21:52
1	Sb 206.836†	90.6	9.2	1.1792 µg/L		1.1792 ppb	09:21:52
1	Se 196.026†	15.9	-5.1	-2.00 µg/L		-2.00 ppb	09:21:52
1	SiO2†	1787.5	-3.5	-0.3938 µg/L		-0.3938 ppb	09:21:52
1	Si 251.611†	977.3	44.2	0.6822 µg/L		0.6822 ppb	09:21:32
1	Sn 189.927†	4.2	6.6	0.4438 µg/L		0.4438 ppb	09:21:52
1	Ti 334.940†	949.1	-26.0	-0.0260 µg/L		-0.0260 ppb	09:21:32
1	Tl 190.801†	-120.6	-3.2	-0.4140 µg/L		-0.4140 ppb	09:21:52
1	U 409.014†	-307.7	12.4	0.7925 µg/L		0.7925 ppb	09:21:32
1	V 292.402†	384.2	76.6	0.4040 µg/L		0.4040 ppb	09:21:32
1	Zn 213.857†	667.3	72.6	0.4357 µg/L		0.4357 ppb	09:21:52
2	Sc RADIAL	150792.5	150792.5	101 %			09:20:30
2	Al 396.153Radial†	-57.3	16.9	3.2975 µg/L		3.2975 ppb	09:20:50
2	Ca 317.933Radial†	676.5	40.1	2.3898 µg/L		2.3898 ppb	09:20:50
2	Fe 238.204 Radial†	188.1	49.6	3.2853 µg/L		3.2853 ppb	09:20:50
2	K 766.490 Radial†	1815.7	231.3	92.194 µg/L		92.194 ppb	09:20:30
2	Mg 279.077 IEC†	182.1	8.9	3.5765 µg/L		3.5765 ppb	09:20:50
2	Na 589.592 Radial†	1517.6	392.0	57.858 µg/L		57.858 ppb	09:20:30
2	Sr 421.552†	-192.6	64.0	0.1410 µg/L		0.1410 ppb	09:20:30
2	Sc 361.383	1777404.6	1777404.6	99.171 %			09:21:55
2	Y 371.029	1071043.0	1071043.0	99.302 %			09:21:55
2	Ag 328.068†	3371.5	-528.4	-2.0721 µg/L		-2.0721 ppb	09:21:57
2	As 188.979†	-17.3	-3.6	-1.1413 µg/L		-1.1413 ppb	09:22:17
2	B 249.677†	3566.7	193.2	3.0486 µg/L		3.0486 ppb	09:21:57
2	Ba 233.527†	-102.3	35.1	0.1491 µg/L		0.1491 ppb	09:22:17
2	Be 313.107†	-1187.2	-180.5	-0.0508 µg/L		-0.0508 ppb	09:21:57
2	Cd 226.502†	-64.5	44.7	0.2983 µg/L		0.2983 ppb	09:22:17
2	Co 228.616†	-163.7	6.6	0.0864 µg/L		0.0864 ppb	09:22:17
2	Cr 267.716†	166.8	-12.6	-0.1074 µg/L		-0.1074 ppb	09:22:17
2	Cu 324.752†	2976.3	23.7	0.1015 µg/L		0.1015 ppb	09:21:57
2	Mn 257.610†	289.0	98.4	0.1291 µg/L		0.1291 ppb	09:22:17
2	Mo 202.031†	-18.3	18.0	0.5631 µg/L		0.5631 ppb	09:22:17
2	Ni 231.604†	-76.3	20.7	0.2540 µg/L		0.2540 ppb	09:22:17
2	P 214.914†	-27.0	-3.9	-0.8982 µg/L		-0.8982 ppb	09:22:17
2	Pb 220.353†	84.0	22.8	1.3575 µg/L		1.3575 ppb	09:22:17

2	S 181.975 Axial†	102.1	10.7	8.5796 µg/L	8.5796 ppb	09:22:17
2	Sb 206.836†	78.2	-2.1	-0.2533 µg/L	-0.2533 ppb	09:22:17
2	Se 196.026†	26.9	6.2	2.42 µg/L	2.42 ppb	09:22:17
2	SiO2†	1794.7	27.8	2.8695 µg/L	2.8695 ppb	09:22:17
2	Si 251.611†	891.5	-29.2	-0.4735 µg/L	-0.4735 ppb	09:21:57
2	Sn 189.927†	14.1	16.7	1.1170 µg/L	1.1170 ppb	09:22:17
2	Ti 334.940†	1239.3	279.4	0.2740 µg/L	0.2740 ppb	09:21:57
2	Tl 190.801†	-129.0	-13.3	-1.7391 µg/L	-1.7391 ppb	09:22:17
2	U 409.014†	-255.2	61.1	3.7655 µg/L	3.7655 ppb	09:21:57
2	V 292.402†	205.1	-98.9	-0.5048 µg/L	-0.5048 ppb	09:21:57
2	Zn 213.857†	661.2	75.4	0.4522 µg/L	0.4522 ppb	09:22:17
3	Sc RADIAL	152536.7	152536.7	102 %		09:20:52
3	Al 396.153Radial†	-49.3	25.4	4.9559 µg/L	4.9559 ppb	09:21:12
3	Ca 317.933Radial†	634.3	-9.1	-0.5443 µg/L	-0.5443 ppb	09:21:12
3	Fe 238.204 Radial†	168.4	28.1	1.8613 µg/L	1.8613 ppb	09:21:12
3	K 766.490 Radial†	1792.8	188.1	74.979 µg/L	74.979 ppb	09:20:52
3	Mg 279.077 IEC†	188.4	13.1	5.2458 µg/L	5.2458 ppb	09:21:12
3	Na 589.592 Radial†	1579.0	435.1	64.253 µg/L	64.253 ppb	09:20:52
3	Sr 421.552†	-242.1	17.4	0.0384 µg/L	0.0384 ppb	09:20:52
3	Sc 361.383	1783224.4	1783224.4	99.496 %		09:22:19
3	Y 371.029	1072877.3	1072877.3	99.472 %		09:22:19
3	Ag 328.068†	4130.8	223.6	0.8725 µg/L	0.8725 ppb	09:22:21
3	As 188.979†	-14.8	-1.1	-0.3495 µg/L	-0.3495 ppb	09:22:41
3	B 249.677†	3597.4	212.2	3.3493 µg/L	3.3493 ppb	09:22:21
3	Ba 233.527†	-111.5	26.2	0.1114 µg/L	0.1114 ppb	09:22:41
3	Be 313.107†	-902.7	109.3	0.0310 µg/L	0.0310 ppb	09:22:21
3	Cd 226.502†	-118.4	-9.2	-0.0620 µg/L	-0.0620 ppb	09:22:41
3	Co 228.616†	-158.0	12.8	0.1687 µg/L	0.1687 ppb	09:22:41
3	Cr 267.716†	204.2	24.5	0.2041 µg/L	0.2041 ppb	09:22:41
3	Cu 324.752†	2848.1	-114.9	-0.4745 µg/L	-0.4745 ppb	09:22:21
3	Mn 257.610†	330.3	139.0	0.1823 µg/L	0.1823 ppb	09:22:41
3	Mo 202.031†	-17.6	18.7	0.5868 µg/L	0.5868 ppb	09:22:41
3	Ni 231.604†	-96.7	0.4	0.0047 µg/L	0.0047 ppb	09:22:41
3	P 214.914†	-43.1	-20.0	-4.6108 µg/L	-4.6108 ppb	09:22:41
3	Pb 220.353†	64.8	3.2	0.1944 µg/L	0.1944 ppb	09:22:41
3	S 181.975 Axial†	91.5	-0.2	-0.1716 µg/L	-0.1716 ppb	09:22:41
3	Sb 206.836†	90.3	9.8	1.2552 µg/L	1.2552 ppb	09:22:41
3	Se 196.026†	23.8	3.0	1.16 µg/L	1.16 ppb	09:22:41
3	SiO2†	1806.0	33.3	3.4379 µg/L	3.4379 ppb	09:22:41
3	Si 251.611†	889.8	-33.8	-0.5479 µg/L	-0.5479 ppb	09:22:21
3	Sn 189.927†	19.0	21.6	1.4435 µg/L	1.4435 ppb	09:22:41
3	Ti 334.940†	930.4	-35.2	-0.0346 µg/L	-0.0346 ppb	09:22:21
3	Tl 190.801†	-120.0	-3.9	-0.5082 µg/L	-0.5082 ppb	09:22:41
3	U 409.014†	-339.4	-22.7	-1.4164 µg/L	-1.4164 ppb	09:22:21
3	V 292.402†	273.8	-30.5	-0.1520 µg/L	-0.1520 ppb	09:22:21
3	Zn 213.857†	645.1	57.1	0.3438 µg/L	0.3438 ppb	09:22:41

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1787379.0	99.728 %	0.7018			0.70%
Sc RADIAL	151386.0	101 %	0.7			0.66%
Y 371.029	1075888.8	99.751 %	0.6366			0.64%
Ag 328.068†	-179.2	-0.7021 µg/L	1.48290	-0.7021 ppb	1.48290	211.20%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	21.7	4.2225 µg/L	0.84559	4.2225 ppb	0.84559	20.03%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.5	-0.4697 µg/L	0.62037	-0.4697 ppb	0.62037	132.09%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	104.2	1.6450 µg/L	2.69568	1.6450 ppb	2.69568	163.87%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	26.6	0.1129 µg/L	0.03546	0.1129 ppb	0.03546	31.41%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	44.7	0.0132 µg/L	0.05718	0.0132 ppb	0.05718	434.08%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	23.0	1.3746 µg/L	1.66280	1.3746 ppb	1.66280	120.96%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	8.4	0.0562 µg/L	0.20965	0.0562 ppb	0.20965	372.94%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	5.9	0.0781 µg/L	0.09507	0.0781 ppb	0.09507	121.79%

QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-1.0	-0.0088 µg/L	0.18453	-0.0088 ppb	0.18453	>999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-39.3	-0.1608 µg/L	0.29142	-0.1608 ppb	0.29142	181.22%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	38.3	2.5328 µg/L	0.71547	2.5328 ppb	0.71547	28.25%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	151.2	60.266 µg/L	41.2993	60.266 ppb	41.2993	68.53%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	7.9	3.1732 µg/L	2.30098	3.1732 ppb	2.30098	72.51%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	109.7	0.1440 µg/L	0.03347	0.1440 ppb	0.03347	23.25%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	20.2	0.6341 µg/L	0.10316	0.6341 ppb	0.10316	16.27%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	381.4	56.325 µg/L	8.7943	56.325 ppb	8.7943	15.61%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	11.7	0.1432 µg/L	0.12690	0.1432 ppb	0.12690	88.61%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-4.9	-1.1203 µg/L	3.38502	-1.1203 ppb	3.38502	302.16%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	22.2	1.3248 µg/L	1.11437	1.3248 ppb	1.11437	84.12%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	4.9	3.9365 µg/L	4.40003	3.9365 ppb	4.40003	111.77%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	5.6	0.7271 µg/L	0.84985	0.7271 ppb	0.84985	116.89%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	1.3	0.527 µg/L	2.2764	0.527 ppb	2.2764	431.57%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	19.2	1.9712 µg/L	2.06776	1.9712 ppb	2.06776	104.90%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	-6.2	-0.1131 µg/L	0.68976	-0.1131 ppb	0.68976	610.02%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	15.0	1.0014 µg/L	0.50977	1.0014 ppb	0.50977	50.90%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	54.9	0.1210 µg/L	0.07461	0.1210 ppb	0.07461	61.65%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	72.7	0.0711 µg/L	0.17575	0.0711 ppb	0.17575	247.08%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-6.8	-0.8871 µg/L	0.73937	-0.8871 ppb	0.73937	83.35%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	16.9	1.0472 µg/L	2.60037	1.0472 ppb	2.60037	248.32%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-17.6	-0.0843 µg/L	0.45820	-0.0843 ppb	0.45820	543.75%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	68.4	0.4106 µg/L	0.05843	0.4106 ppb	0.05843	14.23%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 3
 Sample ID: 1202056957|959141|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 301
 Date Collected: 3/31/2010 9:22:50
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202056957|959141|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	152935.4	152935.4	102	%		09:23:21
1	Al 396.153Radial†	-230.2	-151.8	-29.810	µg/L	-29.810 ppb	09:23:21
1	Ca 317.933Radial†	855.6	206.3	12.305	µg/L	12.305 ppb	09:23:41
1	Fe 238.204 Radial†	223.5	81.8	5.4134	µg/L	5.4134 ppb	09:23:41
1	K 766.490 Radial†	1666.3	59.4	23.676	µg/L	23.676 ppb	09:23:21
1	Mg 279.077 IEC†	186.7	10.9	4.3666	µg/L	4.3666 ppb	09:23:41
1	Na 589.592 Radial†	1458.5	312.8	46.217	µg/L	46.217 ppb	09:23:21
1	Sr 421.552†	-132.4	125.7	0.2770	µg/L	0.2770 ppb	09:23:21
1	Sc 361.383	1791157.7	1791157.7	99.939	%		09:24:29
1	Y 371.029	1074855.2	1074855.2	99.655	%		09:24:29
1	Ag 328.068†	3898.3	-27.4	-0.1087	µg/L	-0.1087 ppb	09:24:31
1	As 188.979†	-6.0	7.8	2.4691	µg/L	2.4691 ppb	09:24:51
1	B 249.677†	3435.2	33.9	0.5351	µg/L	0.5351 ppb	09:24:51
1	Ba 233.527†	-141.3	-3.1	-0.0131	µg/L	-0.0131 ppb	09:24:51
1	Be 313.107†	-984.9	31.1	0.0093	µg/L	0.0093 ppb	09:24:31
1	Cd 226.502†	-121.5	-11.8	-0.0795	µg/L	-0.0795 ppb	09:24:51
1	Co 228.616†	-165.6	5.9	0.0772	µg/L	0.0772 ppb	09:24:51
1	Cr 267.716†	194.7	14.1	0.1161	µg/L	0.1161 ppb	09:24:51
1	Cu 324.752†	3153.3	177.8	0.7350	µg/L	0.7350 ppb	09:24:31
1	Mn 257.610†	624.9	432.2	0.5674	µg/L	0.5674 ppb	09:24:51
1	Mo 202.031†	-17.7	18.7	0.5854	µg/L	0.5854 ppb	09:24:51
1	Ni 231.604†	-108.4	-10.9	-0.1338	µg/L	-0.1338 ppb	09:24:51
1	P 214.914†	-7.1	16.2	3.7238	µg/L	3.7238 ppb	09:24:51
1	Pb 220.353†	53.9	-7.9	-0.4735	µg/L	-0.4735 ppb	09:24:51
1	S 181.975 Axial†	94.7	2.6	2.0473	µg/L	2.0473 ppb	09:24:51
1	Sb 206.836†	77.5	-3.4	-0.4315	µg/L	-0.4315 ppb	09:24:51
1	Se 196.026†	31.1	10.1	3.95	µg/L	3.95 ppb	09:24:51
1	SiO2†	2032.0	251.4	26.184	µg/L	26.184 ppb	09:24:51
1	Si 251.611†	1660.6	733.6	11.517	µg/L	11.517 ppb	09:24:31
1	Sn 189.927†	6.8	9.3	0.6228	µg/L	0.6228 ppb	09:24:51
1	Ti 334.940†	915.2	-54.5	-0.0543	µg/L	-0.0543 ppb	09:24:31
1	Tl 190.801†	-104.9	11.9	1.5503	µg/L	1.5503 ppb	09:24:51
1	U 409.014†	-300.4	17.9	1.1057	µg/L	1.1057 ppb	09:24:31
1	V 292.402†	270.1	-35.4	-0.1764	µg/L	-0.1764 ppb	09:24:31
1	Zn 213.857†	747.6	156.7	0.9425	µg/L	0.9425 ppb	09:24:51
2	Sc RADIAL	152540.9	152540.9	102	%		09:23:43
2	Al 396.153Radial†	-265.2	-186.8	-36.672	µg/L	-36.672 ppb	09:23:43
2	Ca 317.933Radial†	839.2	192.4	11.473	µg/L	11.473 ppb	09:24:03
2	Fe 238.204 Radial†	205.9	65.0	4.2999	µg/L	4.2999 ppb	09:24:03
2	K 766.490 Radial†	1580.0	-21.3	-8.4746	µg/L	-8.4746 ppb	09:23:43
2	Mg 279.077 IEC†	182.7	7.4	2.9717	µg/L	2.9717 ppb	09:24:03
2	Na 589.592 Radial†	1390.0	249.2	36.843	µg/L	36.843 ppb	09:23:43
2	Sr 421.552†	-198.1	60.7	0.1338	µg/L	0.1338 ppb	09:23:43
2	Sc 361.383	1816387.4	1816387.4	101.35	%		09:24:53
2	Y 371.029	1089119.3	1089119.3	100.98	%		09:24:53
2	Ag 328.068†	4001.4	20.1	0.0742	µg/L	0.0742 ppb	09:24:56
2	As 188.979†	-10.0	4.0	1.2516	µg/L	1.2516 ppb	09:25:16
2	B 249.677†	3453.5	4.3	0.0669	µg/L	0.0669 ppb	09:25:16
2	Ba 233.527†	-111.1	28.6	0.1215	µg/L	0.1215 ppb	09:25:16
2	Be 313.107†	-900.2	128.3	0.0368	µg/L	0.0368 ppb	09:24:56
2	Cd 226.502†	-100.3	10.8	0.0719	µg/L	0.0719 ppb	09:25:16
2	Co 228.616†	-163.6	10.2	0.1340	µg/L	0.1340 ppb	09:25:16
2	Cr 267.716†	146.1	-36.6	-0.3033	µg/L	-0.3033 ppb	09:25:16
2	Cu 324.752†	2998.6	-18.6	-0.0764	µg/L	-0.0764 ppb	09:24:56
2	Mn 257.610†	595.7	394.7	0.5182	µg/L	0.5182 ppb	09:25:16
2	Mo 202.031†	-21.3	15.4	0.4814	µg/L	0.4814 ppb	09:25:16
2	Ni 231.604†	-79.0	19.6	0.2411	µg/L	0.2411 ppb	09:25:16
2	P 214.914†	1.3	24.6	5.6515	µg/L	5.6515 ppb	09:25:16
2	Pb 220.353†	99.0	35.8	2.1341	µg/L	2.1341 ppb	09:25:16

2	S 181.975 Axial†	88.6	-4.8	-3.8438 µg/L	-3.8438 ppb	09:25:16
2	Sb 206.836†	90.0	7.8	1.0071 µg/L	1.0071 ppb	09:25:16
2	Se 196.026†	25.2	3.9	1.52 µg/L	1.52 ppb	09:25:16
2	SiO2†	2012.6	204.1	21.258 µg/L	21.258 ppb	09:25:16
2	Si 251.611†	1607.9	658.4	10.343 µg/L	10.343 ppb	09:24:56
2	Sn 189.927†	-4.6	-2.1	-0.1384 µg/L	-0.1384 ppb	09:25:16
2	Ti 334.940†	822.8	-158.4	-0.1560 µg/L	-0.1560 ppb	09:24:56
2	Tl 190.801†	-114.1	4.2	0.5405 µg/L	0.5405 ppb	09:25:16
2	U 409.014†	-328.5	-5.6	-0.3639 µg/L	-0.3639 ppb	09:24:56
2	V 292.402†	249.1	-59.9	-0.3069 µg/L	-0.3069 ppb	09:24:56
2	Zn 213.857†	741.8	140.7	0.8438 µg/L	0.8438 ppb	09:25:16
3	Sc RADIAL	153115.3	153115.3	102 %		09:24:05
3	Al 396.153Radial†	-223.6	-145.2	-28.506 µg/L	-28.506 ppb	09:24:05
3	Ca 317.933Radial†	832.3	182.5	10.884 µg/L	10.884 ppb	09:24:26
3	Fe 238.204 Radial†	199.4	57.9	3.8332 µg/L	3.8332 ppb	09:24:26
3	K 766.490 Radial†	1674.8	65.9	26.256 µg/L	26.256 ppb	09:24:05
3	Mg 279.077 IEC†	210.8	34.3	13.681 µg/L	13.681 ppb	09:24:26
3	Na 589.592 Radial†	1543.5	394.4	58.275 µg/L	58.275 ppb	09:24:05
3	Sr 421.552†	-161.3	97.6	0.2149 µg/L	0.2149 ppb	09:24:05
3	Sc 361.383	1803366.4	1803366.4	100.62 %		09:25:18
3	Y 371.029	1081674.8	1081674.8	100.29 %		09:25:18
3	Ag 328.068†	3917.4	-34.9	-0.1330 µg/L	-0.1330 ppb	09:25:20
3	As 188.979†	-8.5	5.3	1.6932 µg/L	1.6932 ppb	09:25:40
3	B 249.677†	3452.1	27.5	0.4340 µg/L	0.4340 ppb	09:25:40
3	Ba 233.527†	-111.4	27.5	0.1172 µg/L	0.1172 ppb	09:25:40
3	Be 313.107†	-871.9	150.0	0.0437 µg/L	0.0437 ppb	09:25:20
3	Cd 226.502†	-117.7	-7.2	-0.0487 µg/L	-0.0487 ppb	09:25:40
3	Co 228.616†	-174.2	-1.6	-0.0208 µg/L	-0.0208 ppb	09:25:40
3	Cr 267.716†	183.0	1.1	0.0080 µg/L	0.0080 ppb	09:25:40
3	Cu 324.752†	2889.5	-105.7	-0.4336 µg/L	-0.4336 ppb	09:25:20
3	Mn 257.610†	626.9	430.0	0.5641 µg/L	0.5641 ppb	09:25:40
3	Mo 202.031†	-13.9	22.6	0.7076 µg/L	0.7076 ppb	09:25:40
3	Ni 231.604†	-94.1	4.1	0.0507 µg/L	0.0507 ppb	09:25:40
3	P 214.914†	5.3	28.6	6.5826 µg/L	6.5826 ppb	09:25:40
3	Pb 220.353†	89.8	27.4	1.6298 µg/L	1.6298 ppb	09:25:40
3	S 181.975 Axial†	94.1	1.3	1.0516 µg/L	1.0516 ppb	09:25:40
3	Sb 206.836†	88.7	7.2	0.9248 µg/L	0.9248 ppb	09:25:40
3	Se 196.026†	16.4	-4.6	-1.79 µg/L	-1.79 ppb	09:25:40
3	SiO2†	1944.4	150.6	15.665 µg/L	15.665 ppb	09:25:40
3	Si 251.611†	1504.1	566.7	8.8919 µg/L	8.8919 ppb	09:25:20
3	Sn 189.927†	10.8	13.2	0.8841 µg/L	0.8841 ppb	09:25:40
3	Ti 334.940†	931.2	-44.8	-0.0457 µg/L	-0.0457 ppb	09:25:20
3	Tl 190.801†	-109.1	8.4	1.0976 µg/L	1.0976 ppb	09:25:40
3	U 409.014†	-292.8	27.5	1.7191 µg/L	1.7191 ppb	09:25:20
3	V 292.402†	340.9	33.2	0.1798 µg/L	0.1798 ppb	09:25:20
3	Zn 213.857†	736.7	140.9	0.8469 µg/L	0.8469 ppb	09:25:40

Mean Data: 1202056957|959141|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1803637.2	100.63 %		0.704			0.70%
Sc RADIAL	152863.9	102 %		0.2			0.19%
Y 371.029	1081883.1	100.31 %		0.661			0.66%
Ag 328.068†	-14.1	-0.0558 µg/L		0.11325	-0.0558 ppb	0.11325	202.89%
Al 396.153Radial†	-161.3	-31.663 µg/L		4.3869	-31.663 ppb	4.3869	13.86%
As 188.979†	5.7	1.8047 µg/L		0.61634	1.8047 ppb	0.61634	34.15%
B 249.677†	21.9	0.3454 µg/L		0.24637	0.3454 ppb	0.24637	71.34%
Ba 233.527†	17.7	0.0752 µg/L		0.07652	0.0752 ppb	0.07652	101.77%
Be 313.107†	103.1	0.0299 µg/L		0.01821	0.0299 ppb	0.01821	60.87%
Ca 317.933Radial†	193.7	11.554 µg/L		0.7140	11.554 ppb	0.7140	6.18%
Cd 226.502†	-2.7	-0.0188 µg/L		0.08003	-0.0188 ppb	0.08003	426.34%
Co 228.616†	4.8	0.0635 µg/L		0.07834	0.0635 ppb	0.07834	123.42%
Cr 267.716†	-7.1	-0.0597 µg/L		0.21777	-0.0597 ppb	0.21777	364.69%
Cu 324.752†	17.8	0.0750 µg/L		0.59879	0.0750 ppb	0.59879	798.36%
Fe 238.204 Radial†	68.2	4.5155 µg/L		0.81186	4.5155 ppb	0.81186	17.98%
K 766.490 Radial†	34.7	13.819 µg/L		19.3502	13.819 ppb	19.3502	140.02%
Mg 279.077 IEC†	17.6	7.0065 µg/L		5.82237	7.0065 ppb	5.82237	83.10%
Mn 257.610†	419.0	0.5499 µg/L		0.02749	0.5499 ppb	0.02749	5.00%
Mo 202.031†	18.9	0.5914 µg/L		0.11322	0.5914 ppb	0.11322	19.14%
Na 589.592 Radial†	318.8	47.111 µg/L		10.7437	47.111 ppb	10.7437	22.80%

Ni 231.604†	4.3	0.0527 µg/L	0.18747	0.0527 ppb	0.18747	355.83%
P 214.914†	23.1	5.3193 µg/L	1.45806	5.3193 ppb	1.45806	27.41%
Pb 220.353†	18.4	1.0968 µg/L	1.38313	1.0968 ppb	1.38313	126.11%
S 181.975 Axial†	-0.3	-0.2483 µg/L	3.15338	-0.2483 ppb	3.15338	>999.9%
Sb 206.836†	3.8	0.5002 µg/L	0.80787	0.5002 ppb	0.80787	161.52%
Se 196.026†	3.1	1.23 µg/L	2.884	1.23 ppb	2.884	235.17%
SiO2†	202.0	21.036 µg/L	5.2631	21.036 ppb	5.2631	25.02%
Si 251.611†	652.9	10.251 µg/L	1.3150	10.251 ppb	1.3150	12.83%
Sn 189.927†	6.8	0.4562 µg/L	0.53125	0.4562 ppb	0.53125	116.46%
Sr 421.552†	94.7	0.2086 µg/L	0.07179	0.2086 ppb	0.07179	34.42%
Ti 334.940†	-85.9	-0.0853 µg/L	0.06135	-0.0853 ppb	0.06135	71.91%
Tl 190.801†	8.1	1.0628 µg/L	0.50584	1.0628 ppb	0.50584	47.59%
U 409.014†	13.3	0.8203 µg/L	1.07041	0.8203 ppb	1.07041	130.49%
V 292.402†	-20.7	-0.1011 µg/L	0.25193	-0.1011 ppb	0.25193	249.07%
Zn 213.857†	146.1	0.8777 µg/L	0.05611	0.8777 ppb	0.05611	6.39%

Sequence No.: 4

Sample ID: 1202056958|959141|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 302

Date Collected: 3/31/2010 9:25:47

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056958|959141|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	153166.0	153166.0	102 %		09:26:19
1	Al 396.153Radial†	25416.5	24969.6	4874.5 µg/L	4874.5 ppb	09:26:19
1	Ca 317.933Radial†	84188.3	81830.0	4880.4 µg/L	4880.4 ppb	09:26:19
1	Fe 238.204 Radial†	74134.5	72477.7	4797.4 µg/L	4797.4 ppb	09:26:19
1	K 766.490 Radial†	14053.8	12190.6	4855.8 µg/L	4855.8 ppb	09:26:19
1	Mg 279.077 IEC†	12961.5	12523.6	4998.4 µg/L	4998.4 ppb	09:26:19
1	Na 589.592 Radial†	34732.9	32903.2	4859.1 µg/L	4859.1 ppb	09:26:19
1	Sr 421.552†	221036.1	216761.8	477.73 µg/L	477.73 ppb	09:26:17
1	Sc 361.383	1799755.4	1799755.4	100.42 %		09:26:32
1	Y 371.029	1070516.8	1070516.8	99.253 %		09:26:32
1	Ag 328.068†	122384.0	117946.0	468.56 µg/L	468.56 ppb	09:26:32
1	As 188.979†	1504.4	1511.9	486.28 µg/L	486.28 ppb	09:26:52
1	B 249.677†	33756.2	30212.3	475.21 µg/L	475.21 ppb	09:26:32
1	Ba 233.527†	115673.3	115329.7	490.20 µg/L	490.20 ppb	09:26:32
1	Be 313.107†	1687303.7	1681290.2	483.91 µg/L	483.91 ppb	09:26:32
1	Cd 226.502†	72015.6	71825.3	479.52 µg/L	479.52 ppb	09:26:32
1	Co 228.616†	36286.8	36307.2	478.32 µg/L	478.32 ppb	09:26:32
1	Cr 267.716†	61692.8	61255.0	507.99 µg/L	507.99 ppb	09:26:32
1	Cu 324.752†	127507.3	123998.6	512.85 µg/L	512.85 ppb	09:26:32
1	Mn 257.610†	392064.5	390237.9	512.27 µg/L	512.27 ppb	09:26:32
1	Mo 202.031†	16054.9	16024.4	502.50 µg/L	502.50 ppb	09:26:52
1	Ni 231.604†	41967.7	41890.4	514.61 µg/L	514.61 ppb	09:26:32
1	P 214.914†	2111.4	2125.9	481.64 µg/L	481.64 ppb	09:26:52
1	Pb 220.353†	8247.9	8151.6	487.65 µg/L	487.65 ppb	09:26:52
1	S 181.975 Axial†	6494.3	6375.1	5107.6 µg/L	5107.6 ppb	09:26:52
1	Sb 206.836†	4042.9	3945.1	503.52 µg/L	503.52 ppb	09:26:52
1	Se 196.026†	1295.7	1269.3	497 µg/L	497 ppb	09:26:52
1	SiO2†	104541.7	102324.3	10644 µg/L	10644 ppb	09:26:32
1	Si 251.611†	319369.5	317110.8	4973.8 µg/L	4973.8 ppb	09:26:32
1	Sn 189.927†	7624.7	7595.4	509.09 µg/L	509.09 ppb	09:26:52
1	Ti 334.940†	516339.9	513218.3	505.78 µg/L	505.78 ppb	09:26:32
1	Tl 190.801†	3777.8	3878.9	515.44 µg/L	515.44 ppb	09:26:52
1	U 409.014†	7509.8	7797.0	515.33 µg/L	515.33 ppb	09:26:32
1	V 292.402†	98558.9	97842.6	513.46 µg/L	513.46 ppb	09:26:32
1	Zn 213.857†	84370.4	83427.6	498.11 µg/L	498.11 ppb	09:26:32
2	Sc RADIAL	152959.4	152959.4	102 %		09:26:23
2	Al 396.153Radial†	25435.7	25022.1	4884.9 µg/L	4884.9 ppb	09:26:23
2	Ca 317.933Radial†	84496.7	82243.8	4905.1 µg/L	4905.1 ppb	09:26:23
2	Fe 238.204 Radial†	74452.0	72887.2	4824.6 µg/L	4824.6 ppb	09:26:23
2	K 766.490 Radial†	14088.6	12243.3	4876.7 µg/L	4876.7 ppb	09:26:23
2	Mg 279.077 IEC†	12927.1	12507.1	4991.8 µg/L	4991.8 ppb	09:26:23
2	Na 589.592 Radial†	34776.8	32992.2	4872.2 µg/L	4872.2 ppb	09:26:23
2	Sr 421.552†	221336.9	217349.3	479.03 µg/L	479.03 ppb	09:26:21
2	Sc 361.383	1797519.0	1797519.0	100.29 %		09:26:55
2	Y 371.029	1069474.0	1069474.0	99.156 %		09:26:55
2	Ag 328.068†	121796.0	117511.4	466.82 µg/L	466.82 ppb	09:26:55
2	As 188.979†	1514.7	1524.0	490.08 µg/L	490.08 ppb	09:27:15
2	B 249.677†	33433.9	29932.6	470.81 µg/L	470.81 ppb	09:26:55
2	Ba 233.527†	114702.7	114505.2	486.70 µg/L	486.70 ppb	09:26:55
2	Be 313.107†	1672096.9	1668218.5	480.15 µg/L	480.15 ppb	09:26:55
2	Cd 226.502†	71426.0	71326.6	476.19 µg/L	476.19 ppb	09:26:55
2	Co 228.616†	35980.5	36046.8	474.88 µg/L	474.88 ppb	09:26:55
2	Cr 267.716†	61210.7	60850.8	504.65 µg/L	504.65 ppb	09:26:55
2	Cu 324.752†	126569.0	123221.0	509.64 µg/L	509.64 ppb	09:26:55
2	Mn 257.610†	389128.9	387796.7	509.06 µg/L	509.06 ppb	09:26:55
2	Mo 202.031†	15957.3	15947.0	500.07 µg/L	500.07 ppb	09:27:15
2	Ni 231.604†	41605.2	41581.0	510.81 µg/L	510.81 ppb	09:26:55
2	P 214.914†	2095.5	2112.7	478.63 µg/L	478.63 ppb	09:27:15
2	Pb 220.353†	8175.8	8090.0	483.97 µg/L	483.97 ppb	09:27:15

2	S 181.975 Axial†	6452.8	6341.6	5080.8 µg/L	5080.8 ppb	09:27:15
2	Sb 206.836†	4039.0	3946.2	503.67 µg/L	503.67 ppb	09:27:15
2	Se 196.026†	1280.2	1255.5	491 µg/L	491 ppb	09:27:15
2	SiO2†	103729.4	101643.9	10573 µg/L	10573 ppb	09:26:55
2	Si 251.611†	316546.0	314691.3	4935.8 µg/L	4935.8 ppb	09:26:55
2	Sn 189.927†	7610.2	7590.4	508.74 µg/L	508.74 ppb	09:27:15
2	Ti 334.940†	512972.4	510500.4	503.10 µg/L	503.10 ppb	09:26:55
2	Tl 190.801†	3782.8	3888.5	516.67 µg/L	516.67 ppb	09:27:15
2	U 409.014†	7358.8	7655.7	506.40 µg/L	506.40 ppb	09:26:55
2	V 292.402†	98010.8	97418.2	511.22 µg/L	511.22 ppb	09:26:55
2	Zn 213.857†	83646.0	82809.8	494.41 µg/L	494.41 ppb	09:26:55
3	Sc RADIAL	151659.1	151659.1	101 %		09:26:27
3	Al 396.153Radial†	25394.7	25195.4	4918.8 µg/L	4918.8 ppb	09:26:27
3	Ca 317.933Radial†	83837.0	82301.9	4908.6 µg/L	4908.6 ppb	09:26:27
3	Fe 238.204 Radial†	73702.1	72771.5	4816.9 µg/L	4816.9 ppb	09:26:27
3	K 766.490 Radial†	13962.4	12237.0	4874.2 µg/L	4874.2 ppb	09:26:27
3	Mg 279.077 IEC†	12883.4	12572.5	5017.9 µg/L	5017.9 ppb	09:26:27
3	Na 589.592 Radial†	34672.1	33181.1	4900.2 µg/L	4900.2 ppb	09:26:27
3	Sr 421.552†	219265.1	217161.2	478.61 µg/L	478.61 ppb	09:26:25
3	Sc 361.383	1814047.2	1814047.2	101.22 %		09:27:18
3	Y 371.029	1079147.0	1079147.0	100.05 %		09:27:18
3	Ag 328.068†	122315.5	116918.2	464.48 µg/L	464.48 ppb	09:27:18
3	As 188.979†	1510.3	1506.0	484.36 µg/L	484.36 ppb	09:27:38
3	B 249.677†	33735.4	29926.8	470.72 µg/L	470.72 ppb	09:27:18
3	Ba 233.527†	115643.4	114392.6	486.22 µg/L	486.22 ppb	09:27:18
3	Be 313.107†	1682330.7	1663139.1	478.69 µg/L	478.69 ppb	09:27:18
3	Cd 226.502†	71885.5	71131.7	474.89 µg/L	474.89 ppb	09:27:18
3	Co 228.616†	36319.1	36054.5	474.98 µg/L	474.98 ppb	09:27:18
3	Cr 267.716†	61602.8	60682.1	503.25 µg/L	503.25 ppb	09:27:18
3	Cu 324.752†	127621.6	123111.2	509.19 µg/L	509.19 ppb	09:27:18
3	Mn 257.610†	391653.7	386756.1	507.69 µg/L	507.69 ppb	09:27:18
3	Mo 202.031†	16132.5	15975.2	500.95 µg/L	500.95 ppb	09:27:38
3	Ni 231.604†	41886.7	41481.2	509.58 µg/L	509.58 ppb	09:27:18
3	P 214.914†	2131.9	2129.6	482.57 µg/L	482.57 ppb	09:27:38
3	Pb 220.353†	8271.9	8110.6	485.20 µg/L	485.20 ppb	09:27:38
3	S 181.975 Axial†	6524.4	6353.8	5090.6 µg/L	5090.6 ppb	09:27:38
3	Sb 206.836†	4075.8	3945.9	503.67 µg/L	503.67 ppb	09:27:38
3	Se 196.026†	1288.0	1251.6	490 µg/L	490 ppb	09:27:38
3	SiO2†	104474.7	101437.9	10552 µg/L	10552 ppb	09:27:18
3	Si 251.611†	319171.7	314409.7	4931.4 µg/L	4931.4 ppb	09:27:18
3	Sn 189.927†	7709.1	7619.0	510.65 µg/L	510.65 ppb	09:27:38
3	Ti 334.940†	516515.6	509340.9	501.96 µg/L	501.96 ppb	09:27:18
3	Tl 190.801†	3799.6	3870.8	514.32 µg/L	514.32 ppb	09:27:38
3	U 409.014†	7418.5	7647.9	505.84 µg/L	505.84 ppb	09:27:18
3	V 292.402†	98673.9	97183.0	510.00 µg/L	510.00 ppb	09:27:18
3	Zn 213.857†	84051.9	82451.0	492.26 µg/L	492.26 ppb	09:27:18

Mean Data: 1202056958|959141|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1803773.9	100.64 %	0.500			0.50%
Sc RADIAL	152594.8	102 %	0.5			0.54%
Y 371.029	1073046.0	99.488 %	0.4923			0.49%
Ag 328.068†	117458.5	466.62 µg/L	2.047	466.62 ppb	2.047	0.44%
Al 396.153Radial†	25062.3	4892.7 µg/L	23.20	4892.7 ppb	23.20	0.47%
As 188.979†	1514.0	486.91 µg/L	2.914	486.91 ppb	2.914	0.60%
B 249.677†	30023.9	472.25 µg/L	2.568	472.25 ppb	2.568	0.54%
Ba 233.527†	114742.5	487.71 µg/L	2.174	487.71 ppb	2.174	0.45%
Be 313.107†	1670882.6	480.92 µg/L	2.696	480.92 ppb	2.696	0.56%
Ca 317.933Radial†	82125.2	4898.0 µg/L	15.35	4898.0 ppb	15.35	0.31%
Cd 226.502†	71427.9	476.87 µg/L	2.392	476.87 ppb	2.392	0.50%
Co 228.616†	36136.1	476.06 µg/L	1.954	476.06 ppb	1.954	0.41%
Cr 267.716†	60929.3	505.29 µg/L	2.438	505.29 ppb	2.438	0.48%
Cu 324.752†	123443.6	510.56 µg/L	1.998	510.56 ppb	1.998	0.39%
Fe 238.204 Radial†	72712.1	4813.0 µg/L	13.97	4813.0 ppb	13.97	0.29%
K 766.490 Radial†	12223.6	4868.9 µg/L	11.45	4868.9 ppb	11.45	0.24%
Mg 279.077 IEC†	12534.4	5002.7 µg/L	13.56	5002.7 ppb	13.56	0.27%
Mn 257.610†	388263.6	509.67 µg/L	2.347	509.67 ppb	2.347	0.46%
Mo 202.031†	15982.2	501.17 µg/L	1.227	501.17 ppb	1.227	0.24%
Na 589.592 Radial†	33025.5	4877.2 µg/L	20.97	4877.2 ppb	20.97	0.43%

Ni 231.604†	41650.9	511.67 µg/L	2.621	511.67 ppb	2.621	0.51%
P 214.914†	2122.7	480.95 µg/L	2.057	480.95 ppb	2.057	0.43%
Pb 220.353†	8117.4	485.61 µg/L	1.872	485.61 ppb	1.872	0.39%
S 181.975 Axial†	6356.8	5093.0 µg/L	13.55	5093.0 ppb	13.55	0.27%
Sb 206.836†	3945.8	503.62 µg/L	0.086	503.62 ppb	0.086	0.02%
Se 196.026†	1258.8	493 µg/L	3.6	493 ppb	3.6	0.74%
SiO2†	101802.0	10590 µg/L	48.3	10590 ppb	48.3	0.46%
Si 251.611†	315403.9	4947.0 µg/L	23.33	4947.0 ppb	23.33	0.47%
Sn 189.927†	7601.6	509.49 µg/L	1.016	509.49 ppb	1.016	0.20%
Sr 421.552†	217090.8	478.46 µg/L	0.661	478.46 ppb	0.661	0.14%
Ti 334.940†	511019.9	503.61 µg/L	1.961	503.61 ppb	1.961	0.39%
Tl 190.801†	3879.4	515.48 µg/L	1.176	515.48 ppb	1.176	0.23%
U 409.014†	7700.2	509.19 µg/L	5.323	509.19 ppb	5.323	1.05%
V 292.402†	97481.3	511.56 µg/L	1.754	511.56 ppb	1.754	0.34%
Zn 213.857†	82896.1	494.93 µg/L	2.957	494.93 ppb	2.957	0.60%

Sequence No.: 6

Sample ID: 1202056959|959141|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 304

Date Collected: 3/31/2010 9:30:43

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056959|959141|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	151459.8	151459.8	101 %		09:31:13
1	Al 396.153Radial†	-32.3	42.0	8.2390 µg/L	8.2390 ppb	09:31:33
1	Ca 317.933Radial†	815.6	174.9	10.429 µg/L	10.429 ppb	09:31:33
1	Fe 238.204 Radial†	227.8	88.1	5.8318 µg/L	5.8318 ppb	09:31:33
1	K 766.490 Radial†	1601.7	11.4	4.5310 µg/L	4.5310 ppb	09:31:13
1	Mg 279.077 IEC†	181.7	7.7	3.0803 µg/L	3.0803 ppb	09:31:33
1	Na 589.592 Radial†	1346.0	215.4	31.828 µg/L	31.828 ppb	09:31:13
1	Sr 421.552†	-243.2	14.6	0.0322 µg/L	0.0322 ppb	09:31:13
1	Sc 361.383	1793576.8	1793576.8	100.07 %		09:32:21
1	Y 371.029	1077452.8	1077452.8	99.896 %		09:32:21
1	Ag 328.068†	3771.8	-159.1	-0.6013 µg/L	-0.6013 ppb	09:32:23
1	As 188.979†	-13.1	0.7	0.2268 µg/L	0.2268 ppb	09:32:43
1	B 249.677†	3424.8	18.9	0.2988 µg/L	0.2988 ppb	09:32:23
1	Ba 233.527†	-145.5	-7.1	-0.0301 µg/L	-0.0301 ppb	09:32:43
1	Be 313.107†	-794.7	222.5	0.0683 µg/L	0.0683 ppb	09:32:23
1	Cd 226.502†	-100.4	9.4	0.0627 µg/L	0.0627 ppb	09:32:43
1	Co 228.616†	-166.8	4.9	0.0640 µg/L	0.0640 ppb	09:32:43
1	Cr 267.716†	167.9	-13.0	-0.1183 µg/L	-0.1183 ppb	09:32:43
1	Cu 324.752†	2933.4	-46.2	-0.1780 µg/L	-0.1780 ppb	09:32:23
1	Mn 257.610†	364.0	170.7	0.2241 µg/L	0.2241 ppb	09:32:43
1	Mo 202.031†	-39.6	-3.1	-0.0968 µg/L	-0.0968 ppb	09:32:43
1	Ni 231.604†	-60.9	36.7	0.4514 µg/L	0.4514 ppb	09:32:43
1	P 214.914†	-13.4	9.9	2.2947 µg/L	2.2947 ppb	09:32:43
1	Pb 220.353†	110.2	48.2	2.8624 µg/L	2.8624 ppb	09:32:43
1	S 181.975 Axial†	103.7	11.4	9.0893 µg/L	9.0893 ppb	09:32:43
1	Sb 206.836†	70.7	-10.3	-1.3146 µg/L	-1.3146 ppb	09:32:43
1	Se 196.026†	-1.0	-21.9	-8.53 µg/L	-8.53 ppb	09:32:43
1	SiO2†	1948.9	165.6	17.254 µg/L	17.254 ppb	09:32:43
1	Si 251.611†	1319.5	390.4	6.1316 µg/L	6.1316 ppb	09:32:23
1	Sn 189.927†	9.8	12.2	0.8172 µg/L	0.8172 ppb	09:32:43
1	Ti 334.940†	965.5	-5.5	-0.0111 µg/L	-0.0111 ppb	09:32:23
1	Tl 190.801†	-116.6	0.3	0.0426 µg/L	0.0426 ppb	09:32:43
1	U 409.014†	-91.4	227.2	14.136 µg/L	14.136 ppb	09:32:23
1	V 292.402†	388.1	82.2	0.4331 µg/L	0.4331 ppb	09:32:23
1	Zn 213.857†	801.3	209.4	1.2572 µg/L	1.2572 ppb	09:32:43
2	Sc RADIAL	151866.5	151866.5	101 %		09:31:35
2	Al 396.153Radial†	-51.2	23.4	4.5758 µg/L	4.5758 ppb	09:31:55
2	Ca 317.933Radial†	797.0	154.3	9.2052 µg/L	9.2052 ppb	09:31:55
2	Fe 238.204 Radial†	229.4	89.1	5.8984 µg/L	5.8984 ppb	09:31:55
2	K 766.490 Radial†	1708.2	112.4	44.774 µg/L	44.774 ppb	09:31:35
2	Mg 279.077 IEC†	152.4	-21.7	-8.6286 µg/L	-8.6286 ppb	09:31:55
2	Na 589.592 Radial†	1408.0	273.0	40.311 µg/L	40.311 ppb	09:31:35
2	Sr 421.552†	-167.6	90.0	0.1982 µg/L	0.1982 ppb	09:31:35
2	Sc 361.383	1812217.4	1812217.4	101.11 %		09:32:46
2	Y 371.029	1087938.9	1087938.9	100.87 %		09:32:46
2	Ag 328.068†	3854.0	-116.6	-0.4442 µg/L	-0.4442 ppb	09:32:48
2	As 188.979†	-13.7	0.3	0.0965 µg/L	0.0965 ppb	09:33:08
2	B 249.677†	3590.7	147.8	2.3336 µg/L	2.3336 ppb	09:32:48
2	Ba 233.527†	-135.9	3.9	0.0171 µg/L	0.0171 ppb	09:33:08
2	Be 313.107†	-979.7	47.6	0.0148 µg/L	0.0148 ppb	09:32:48
2	Cd 226.502†	-118.6	-7.5	-0.0509 µg/L	-0.0509 ppb	09:33:08
2	Co 228.616†	-183.9	-10.3	-0.1357 µg/L	-0.1357 ppb	09:33:08
2	Cr 267.716†	201.3	18.4	0.1504 µg/L	0.1504 ppb	09:33:08
2	Cu 324.752†	2904.6	-104.8	-0.4287 µg/L	-0.4287 ppb	09:32:48
2	Mn 257.610†	381.1	183.9	0.2418 µg/L	0.2418 ppb	09:33:08
2	Mo 202.031†	-26.6	10.1	0.3170 µg/L	0.3170 ppb	09:33:08
2	Ni 231.604†	-85.9	12.7	0.1558 µg/L	0.1558 ppb	09:33:08
2	P 214.914†	-18.6	4.9	1.1356 µg/L	1.1356 ppb	09:33:08
2	Pb 220.353†	60.7	-1.8	-0.1105 µg/L	-0.1105 ppb	09:33:08

2	S 181.975 Axial†	91.8	-1.5	-1.1876 µg/L	-1.1876 ppb	09:33:08
2	Sb 206.836†	81.3	-0.6	-0.0697 µg/L	-0.0697 ppb	09:33:08
2	Se 196.026†	13.3	-7.8	-3.04 µg/L	-3.04 ppb	09:33:08
2	SiO2†	1936.1	132.9	13.831 µg/L	13.831 ppb	09:33:08
2	Si 251.611†	1383.9	440.6	6.9146 µg/L	6.9146 ppb	09:32:48
2	Sn 189.927†	11.1	13.4	0.8960 µg/L	0.8960 ppb	09:33:08
2	Ti 334.940†	1001.8	20.5	0.0197 µg/L	0.0197 ppb	09:32:48
2	Tl 190.801†	-114.4	3.6	0.4774 µg/L	0.4774 ppb	09:33:08
2	U 409.014†	-264.3	57.1	3.5879 µg/L	3.5879 ppb	09:32:48
2	V 292.402†	450.9	140.3	0.7320 µg/L	0.7320 ppb	09:32:48
2	Zn 213.857†	795.6	195.5	1.1757 µg/L	1.1757 ppb	09:33:08
3	Sc RADIAL	154074.8	154074.8	103 %		09:31:58
3	Al 396.153Radial†	-34.9	40.0	7.8398 µg/L	7.8398 ppb	09:32:18
3	Ca 317.933Radial†	798.7	144.8	8.6337 µg/L	8.6337 ppb	09:32:18
3	Fe 238.204 Radial†	232.7	89.1	5.8969 µg/L	5.8969 ppb	09:32:18
3	K 766.490 Radial†	1683.1	63.7	25.382 µg/L	25.382 ppb	09:31:58
3	Mg 279.077 IEC†	177.0	0.1	0.0426 µg/L	0.0426 ppb	09:32:18
3	Na 589.592 Radial†	1304.6	152.4	22.511 µg/L	22.511 ppb	09:31:58
3	Sr 421.552†	-322.2	-58.2	-0.1284 µg/L	-0.1284 ppb	09:31:58
3	Sc 361.383	1815272.8	1815272.8	101.28 %		09:33:10
3	Y 371.029	1088316.2	1088316.2	100.90 %		09:33:10
3	Ag 328.068†	4042.6	63.2	0.2333 µg/L	0.2333 ppb	09:33:12
3	As 188.979†	-21.1	-7.0	-2.2199 µg/L	-2.2199 ppb	09:33:32
3	B 249.677†	3370.1	-76.0	-1.1985 µg/L	-1.1985 ppb	09:33:12
3	Ba 233.527†	-136.8	3.2	0.0140 µg/L	0.0140 ppb	09:33:32
3	Be 313.107†	-753.4	272.8	0.0731 µg/L	0.0731 ppb	09:33:12
3	Cd 226.502†	-108.6	2.5	0.0164 µg/L	0.0164 ppb	09:33:32
3	Co 228.616†	-182.4	-8.5	-0.1116 µg/L	-0.1116 ppb	09:33:32
3	Cr 267.716†	208.5	25.1	0.2227 µg/L	0.2227 ppb	09:33:32
3	Cu 324.752†	3017.6	1.9	-0.0061 µg/L	-0.0061 ppb	09:33:12
3	Mn 257.610†	392.2	194.1	0.2549 µg/L	0.2549 ppb	09:33:32
3	Mo 202.031†	-38.0	-1.1	-0.0327 µg/L	-0.0327 ppb	09:33:32
3	Ni 231.604†	-83.6	15.1	0.1856 µg/L	0.1856 ppb	09:33:32
3	P 214.914†	-26.6	-3.0	-0.6760 µg/L	-0.6760 ppb	09:33:32
3	Pb 220.353†	108.8	45.5	2.7286 µg/L	2.7286 ppb	09:33:32
3	S 181.975 Axial†	86.0	-7.3	-5.8767 µg/L	-5.8767 ppb	09:33:32
3	Sb 206.836†	83.7	1.7	0.2103 µg/L	0.2103 ppb	09:33:32
3	Se 196.026†	11.7	-9.4	-3.68 µg/L	-3.68 ppb	09:33:32
3	SiO2†	1952.0	145.4	15.145 µg/L	15.145 ppb	09:33:32
3	Si 251.611†	1378.2	432.6	6.7947 µg/L	6.7947 ppb	09:33:12
3	Sn 189.927†	9.7	12.1	0.8052 µg/L	0.8052 ppb	09:33:32
3	Ti 334.940†	1017.5	34.4	0.0414 µg/L	0.0414 ppb	09:33:12
3	Tl 190.801†	-115.7	2.6	0.3455 µg/L	0.3455 ppb	09:33:32
3	U 409.014†	-613.3	-287.0	-17.790 µg/L	-17.790 ppb	09:33:12
3	V 292.402†	436.6	125.4	0.6374 µg/L	0.6374 ppb	09:33:12
3	Zn 213.857†	801.7	200.2	1.2032 µg/L	1.2032 ppb	09:33:32

Mean Data: 1202056959|959141|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1807022.3	100.82 %		0.655			0.65%
Sc RADIAL	152467.0	102 %		0.9			0.92%
Y 371.029	1084569.3	100.56 %		0.572			0.57%
Ag 328.068†	-70.8	-0.2707 µg/L		0.44352	-0.2707 ppb	0.44352	163.82%
Al 396.153Radial†	35.1	6.8849 µg/L		2.00962	6.8849 ppb	2.00962	29.19%
As 188.979†	-2.0	-0.6322 µg/L		1.37653	-0.6322 ppb	1.37653	217.73%
B 249.677†	30.3	0.4780 µg/L		1.77285	0.4780 ppb	1.77285	370.91%
Ba 233.527†	-0.0	0.0003 µg/L		0.02640	0.0003 ppb	0.02640	>999.9%
Be 313.107†	181.0	0.0521 µg/L		0.03237	0.0521 ppb	0.03237	62.18%
Ca 317.933Radial†	158.0	9.4226 µg/L		0.91723	9.4226 ppb	0.91723	9.73%
Cd 226.502†	1.5	0.0094 µg/L		0.05712	0.0094 ppb	0.05712	606.37%
Co 228.616†	-4.6	-0.0611 µg/L		0.10904	-0.0611 ppb	0.10904	178.42%
Cr 267.716†	10.2	0.0849 µg/L		0.17969	0.0849 ppb	0.17969	211.55%
Cu 324.752†	-49.7	-0.2043 µg/L		0.21253	-0.2043 ppb	0.21253	104.04%
Fe 238.204 Radial†	88.8	5.8757 µg/L		0.03802	5.8757 ppb	0.03802	0.65%
K 766.490 Radial†	62.5	24.896 µg/L		20.1259	24.896 ppb	20.1259	80.84%
Mg 279.077 IEC†	-4.6	-1.8352 µg/L		6.07608	-1.8352 ppb	6.07608	331.08%
Mn 257.610†	182.9	0.2403 µg/L		0.01550	0.2403 ppb	0.01550	6.45%
Mo 202.031†	2.0	0.0625 µg/L		0.22272	0.0625 ppb	0.22272	356.53%
Na 589.592 Radial†	213.6	31.550 µg/L		8.9033	31.550 ppb	8.9033	28.22%

Ni 231.604†	21.5	0.2642 µg/L	0.16273	0.2642 ppb	0.16273	61.58%
P 214.914†	4.0	0.9181 µg/L	1.49726	0.9181 ppb	1.49726	163.08%
Pb 220.353†	30.6	1.8268 µg/L	1.67907	1.8268 ppb	1.67907	91.91%
S 181.975 Axial†	0.8	0.6750 µg/L	7.65489	0.6750 ppb	7.65489	>999.9%
Sb 206.836†	-3.1	-0.3913 µg/L	0.81174	-0.3913 ppb	0.81174	207.42%
Se 196.026†	-13.1	-5.08 µg/L	3.000	-5.08 ppb	3.000	59.01%
SiO2†	148.0	15.410 µg/L	1.7268	15.410 ppb	1.7268	11.21%
Si 251.611†	421.2	6.6136 µg/L	0.42171	6.6136 ppb	0.42171	6.38%
Sn 189.927†	12.6	0.8395 µg/L	0.04935	0.8395 ppb	0.04935	5.88%
Sr 421.552†	15.5	0.0340 µg/L	0.16330	0.0340 ppb	0.16330	480.08%
Ti 334.940†	16.5	0.0167 µg/L	0.02637	0.0167 ppb	0.02637	158.36%
Tl 190.801†	2.2	0.2885 µg/L	0.22293	0.2885 ppb	0.22293	77.28%
U 409.014†	-0.9	-0.0222 µg/L	16.26641	-0.0222 ppb	16.26641	>999.9%
V 292.402†	115.9	0.6008 µg/L	0.15280	0.6008 ppb	0.15280	25.43%
Zn 213.857†	201.7	1.2120 µg/L	0.04146	1.2120 ppb	0.04146	3.42%

Sequence No.: 7

Sample ID: 1202056960|959141|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 305

Date Collected: 3/31/2010 9:33:40

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056960|959141|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	154861.2	154861.2	103 %		09:34:12
1	Al 396.153Radial†	25498.4	24776.4	4836.2 µg/L	4836.2 ppb	09:34:12
1	Ca 317.933Radial†	84776.3	81497.0	4860.6 µg/L	4860.6 ppb	09:34:12
1	Fe 238.204 Radial†	74790.1	72318.0	4786.9 µg/L	4786.9 ppb	09:34:12
1	K 766.490 Radial†	13966.2	11955.0	4761.9 µg/L	4761.9 ppb	09:34:12
1	Mg 279.077 IEC†	12990.4	12412.7	4954.4 µg/L	4954.4 ppb	09:34:12
1	Na 589.592 Radial†	34877.1	32670.5	4824.8 µg/L	4824.8 ppb	09:34:12
1	Sr 421.552†	221754.0	215087.4	474.04 µg/L	474.04 ppb	09:34:10
1	Sc 361.383	1790720.9	1790720.9	99.914 %		09:34:25
1	Y 371.029	1064641.2	1064641.2	98.708 %		09:34:25
1	Ag 328.068†	120185.9	116360.9	462.40 µg/L	462.40 ppb	09:34:25
1	As 188.979†	1511.5	1526.6	490.97 µg/L	490.97 ppb	09:34:45
1	B 249.677†	33170.8	29795.9	468.66 µg/L	468.66 ppb	09:34:25
1	Ba 233.527†	113846.1	114082.1	484.91 µg/L	484.91 ppb	09:34:25
1	Be 313.107†	1656844.2	1659281.9	477.58 µg/L	477.58 ppb	09:34:25
1	Cd 226.502†	70532.1	70702.4	472.02 µg/L	472.02 ppb	09:34:25
1	Co 228.616†	35766.8	35969.1	473.86 µg/L	473.86 ppb	09:34:25
1	Cr 267.716†	61711.5	61583.7	510.71 µg/L	510.71 ppb	09:34:25
1	Cu 324.752†	127754.8	124886.9	516.52 µg/L	516.52 ppb	09:34:25
1	Mn 257.610†	391812.9	391955.9	514.53 µg/L	514.53 ppb	09:34:25
1	Mo 202.031†	162226.0	16276.3	510.39 µg/L	510.39 ppb	09:34:45
1	Ni 231.604†	41905.5	42039.0	516.44 µg/L	516.44 ppb	09:34:25
1	P 214.914†	2088.6	2113.7	478.78 µg/L	478.78 ppb	09:34:45
1	Pb 220.353†	8202.7	8147.8	487.43 µg/L	487.43 ppb	09:34:45
1	S 181.975 Axial†	6549.2	6462.6	5177.7 µg/L	5177.7 ppb	09:34:45
1	Sb 206.836†	4080.2	4002.7	510.95 µg/L	510.95 ppb	09:34:45
1	Se 196.026†	1318.1	1298.3	508 µg/L	508 ppb	09:34:45
1	SiO2†	104381.1	102688.7	10682 µg/L	10682 ppb	09:34:25
1	Si 251.611†	318367.4	317712.4	4983.1 µg/L	4983.1 ppb	09:34:25
1	Sn 189.927†	7716.1	7725.2	517.77 µg/L	517.77 ppb	09:34:45
1	Ti 334.940†	516625.9	516098.7	508.62 µg/L	508.62 ppb	09:34:25
1	Tl 190.801†	3821.0	3941.1	523.66 µg/L	523.66 ppb	09:34:45
1	U 409.014†	7635.9	7960.9	525.73 µg/L	525.73 ppb	09:34:25
1	V 292.402†	98774.2	98553.3	517.24 µg/L	517.24 ppb	09:34:25
1	Zn 213.857†	84004.0	83484.7	498.44 µg/L	498.44 ppb	09:34:25
2	Sc RADIAL	154469.7	154469.7	103 %		09:34:16
2	Al 396.153Radial†	25508.2	24848.5	4850.5 µg/L	4850.5 ppb	09:34:16
2	Ca 317.933Radial†	84256.3	81200.0	4842.9 µg/L	4842.9 ppb	09:34:16
2	Fe 238.204 Radial†	74615.3	72331.8	4787.8 µg/L	4787.8 ppb	09:34:16
2	K 766.490 Radial†	13891.6	11916.8	4746.7 µg/L	4746.7 ppb	09:34:16
2	Mg 279.077 IEC†	12901.4	12358.1	4932.6 µg/L	4932.6 ppb	09:34:16
2	Na 589.592 Radial†	34750.6	32633.2	4819.3 µg/L	4819.3 ppb	09:34:16
2	Sr 421.552†	219394.0	213339.6	470.19 µg/L	470.19 ppb	09:34:14
2	Sc 361.383	1813588.8	1813588.8	101.19 %		09:34:48
2	Y 371.029	1078643.7	1078643.7	100.01 %		09:34:48
2	Ag 328.068†	121864.0	116502.4	462.92 µg/L	462.92 ppb	09:34:48
2	As 188.979†	1510.4	1506.4	484.57 µg/L	484.57 ppb	09:35:08
2	B 249.677†	33556.8	29758.8	468.06 µg/L	468.06 ppb	09:34:48
2	Ba 233.527†	115008.0	113793.5	483.68 µg/L	483.68 ppb	09:34:48
2	Be 313.107†	1675989.2	1657292.3	477.00 µg/L	477.00 ppb	09:34:48
2	Cd 226.502†	71735.7	71001.7	474.02 µg/L	474.02 ppb	09:34:48
2	Co 228.616†	36389.5	36133.0	476.02 µg/L	476.02 ppb	09:34:48
2	Cr 267.716†	62491.0	61575.2	510.66 µg/L	510.66 ppb	09:34:48
2	Cu 324.752†	129555.3	125054.0	517.19 µg/L	517.19 ppb	09:34:48
2	Mn 257.610†	396455.8	391599.5	514.06 µg/L	514.06 ppb	09:34:48
2	Mo 202.031†	16303.8	16148.5	506.38 µg/L	506.38 ppb	09:35:08
2	Ni 231.604†	42378.2	41977.3	515.68 µg/L	515.68 ppb	09:34:48
2	P 214.914†	2100.1	2098.7	475.32 µg/L	475.32 ppb	09:35:08
2	Pb 220.353†	8205.6	8047.2	481.44 µg/L	481.44 ppb	09:35:08

2	S 181.975 Axial†	6585.0	6415.3	5139.8 µg/L	5139.8 ppb	09:35:08
2	Sb 206.836†	4101.2	3972.0	506.97 µg/L	506.97 ppb	09:35:08
2	Se 196.026†	1312.9	1276.5	500 µg/L	500 ppb	09:35:08
2	SiO2†	105572.1	102548.5	10667 µg/L	10667 ppb	09:34:48
2	Si 251.611†	322511.0	317789.4	4984.4 µg/L	4984.4 ppb	09:34:48
2	Sn 189.927†	7736.9	7648.4	512.64 µg/L	512.64 ppb	09:35:08
2	Ti 334.940†	523240.8	516116.0	508.65 µg/L	508.65 ppb	09:34:48
2	Tl 190.801†	3819.1	3891.0	517.10 µg/L	517.10 ppb	09:35:08
2	U 409.014†	7332.0	7564.2	501.07 µg/L	501.07 ppb	09:34:48
2	V 292.402†	99961.5	98480.1	516.80 µg/L	516.80 ppb	09:34:48
2	Zn 213.857†	85026.2	83434.8	498.14 µg/L	498.14 ppb	09:34:48
3	Sc RADIAL	153746.1	153746.1	102 %		09:34:20
3	Al 396.153Radial†	25460.3	24918.4	4864.1 µg/L	4864.1 ppb	09:34:20
3	Ca 317.933Radial†	84270.5	81599.0	4866.7 µg/L	4866.7 ppb	09:34:20
3	Fe 238.204 Radial†	74481.5	72542.3	4801.7 µg/L	4801.7 ppb	09:34:20
3	K 766.490 Radial†	13979.0	12065.7	4806.0 µg/L	4806.0 ppb	09:34:20
3	Mg 279.077 IEC†	12980.1	12493.9	4986.7 µg/L	4986.7 ppb	09:34:20
3	Na 589.592 Radial†	34658.4	32702.1	4829.4 µg/L	4829.4 ppb	09:34:20
3	Sr 421.552†	222554.7	217426.8	479.20 µg/L	479.20 ppb	09:34:18
3	Sc 361.383	1804415.9	1804415.9	100.68 %		09:35:11
3	Y 371.029	1073195.9	1073195.9	99.502 %		09:35:11
3	Ag 328.068†	121769.1	117020.4	465.02 µg/L	465.02 ppb	09:35:11
3	As 188.979†	1511.4	1515.0	487.32 µg/L	487.32 ppb	09:35:31
3	B 249.677†	33527.3	29898.0	470.26 µg/L	470.26 ppb	09:35:11
3	Ba 233.527†	115347.1	114708.1	487.57 µg/L	487.57 ppb	09:35:11
3	Be 313.107†	1679166.3	1668867.8	480.34 µg/L	480.34 ppb	09:35:11
3	Cd 226.502†	71495.0	71123.0	474.83 µg/L	474.83 ppb	09:35:11
3	Co 228.616†	36288.2	36215.3	477.10 µg/L	477.10 ppb	09:35:11
3	Cr 267.716†	62438.3	61836.8	512.81 µg/L	512.81 ppb	09:35:11
3	Cu 324.752†	129285.4	125436.8	518.79 µg/L	518.79 ppb	09:35:11
3	Mn 257.610†	396442.9	393578.4	516.65 µg/L	516.65 ppb	09:35:11
3	Mo 202.031†	16292.3	16218.9	508.59 µg/L	508.59 ppb	09:35:31
3	Ni 231.604†	42416.9	42228.7	518.77 µg/L	518.77 ppb	09:35:11
3	P 214.914†	2116.9	2125.9	481.56 µg/L	481.56 ppb	09:35:31
3	Pb 220.353†	8259.9	8142.4	487.11 µg/L	487.11 ppb	09:35:31
3	S 181.975 Axial†	6571.9	6435.4	5155.9 µg/L	5155.9 ppb	09:35:31
3	Sb 206.836†	4099.0	3990.4	509.32 µg/L	509.32 ppb	09:35:31
3	Se 196.026†	1301.8	1272.1	498 µg/L	498 ppb	09:35:31
3	SiO2†	105707.7	103213.5	10737 µg/L	10737 ppb	09:35:11
3	Si 251.611†	322328.7	319228.6	5007.0 µg/L	5007.0 ppb	09:35:11
3	Sn 189.927†	7735.1	7685.4	515.12 µg/L	515.12 ppb	09:35:31
3	Ti 334.940†	523603.0	519104.4	511.58 µg/L	511.58 ppb	09:35:11
3	Tl 190.801†	3837.9	3928.8	522.10 µg/L	522.10 ppb	09:35:31
3	U 409.014†	7691.1	7957.7	525.71 µg/L	525.71 ppb	09:35:11
3	V 292.402†	100097.7	99117.5	520.15 µg/L	520.15 ppb	09:35:11
3	Zn 213.857†	84995.2	83831.2	500.51 µg/L	500.51 ppb	09:35:11

Mean Data: 1202056960|959141|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1802908.6	100.59 %	0.642			0.64%
Sc RADIAL	154359.0	103 %	0.4			0.37%
Y 371.029	1072160.2	99.406 %	0.6544			0.66%
Ag 328.068†	116627.9	463.45 µg/L	1.386	463.45 ppb	1.386	0.30%
Al 396.153Radial†	24847.8	4850.3 µg/L	13.96	4850.3 ppb	13.96	0.29%
As 188.979†	1516.0	487.62 µg/L	3.211	487.62 ppb	3.211	0.66%
B 249.677†	29817.6	468.99 µg/L	1.135	468.99 ppb	1.135	0.24%
Ba 233.527†	114194.6	485.39 µg/L	1.987	485.39 ppb	1.987	0.41%
Be 313.107†	1661814.0	478.31 µg/L	1.784	478.31 ppb	1.784	0.37%
Ca 317.933Radial†	81432.0	4856.7 µg/L	12.36	4856.7 ppb	12.36	0.25%
Cd 226.502†	70942.4	473.63 µg/L	1.446	473.63 ppb	1.446	0.31%
Co 228.616†	36105.8	475.66 µg/L	1.651	475.66 ppb	1.651	0.35%
Cr 267.716†	61665.2	511.40 µg/L	1.228	511.40 ppb	1.228	0.24%
Cu 324.752†	125125.9	517.50 µg/L	1.168	517.50 ppb	1.168	0.23%
Fe 238.204 Radial†	72397.4	4792.1 µg/L	8.32	4792.1 ppb	8.32	0.17%
K 766.490 Radial†	11979.2	4771.5 µg/L	30.80	4771.5 ppb	30.80	0.65%
Mg 279.077 IEC†	12421.6	4957.9 µg/L	27.23	4957.9 ppb	27.23	0.55%
Mn 257.610†	392377.9	515.08 µg/L	1.384	515.08 ppb	1.384	0.27%
Mo 202.031†	16214.6	508.45 µg/L	2.006	508.45 ppb	2.006	0.39%
Na 589.592 Radial†	32668.6	4824.5 µg/L	5.07	4824.5 ppb	5.07	0.11%

Ni 231.604†	42081.7	516.96 µg/L	1.610	516.96 ppb	1.610	0.31%
P 214.914†	2112.8	478.56 µg/L	3.126	478.56 ppb	3.126	0.65%
Pb 220.353†	8112.4	485.33 µg/L	3.369	485.33 ppb	3.369	0.69%
S 181.975 Axial†	6437.7	5157.8 µg/L	19.03	5157.8 ppb	19.03	0.37%
Sb 206.836†	3988.4	509.08 µg/L	1.999	509.08 ppb	1.999	0.39%
Se 196.026†	1282.3	502 µg/L	5.5	502 ppb	5.5	1.09%
SiO2†	102816.9	10695 µg/L	36.5	10695 ppb	36.5	0.34%
Si 251.611†	318243.5	4991.5 µg/L	13.42	4991.5 ppb	13.42	0.27%
Sn 189.927†	7686.4	515.18 µg/L	2.565	515.18 ppb	2.565	0.50%
Sr 421.552†	215284.6	474.48 µg/L	4.520	474.48 ppb	4.520	0.95%
Ti 334.940†	517106.4	509.62 µg/L	1.702	509.62 ppb	1.702	0.33%
Tl 190.801†	3920.3	520.95 µg/L	3.431	520.95 ppb	3.431	0.66%
U 409.014†	7827.6	517.50 µg/L	14.236	517.50 ppb	14.236	2.75%
V 292.402†	98717.0	518.06 µg/L	1.819	518.06 ppb	1.819	0.35%
Zn 213.857†	83583.5	499.03 µg/L	1.288	499.03 ppb	1.288	0.26%

Sequence No.: 8
 Sample ID: 1202056961|959141|5
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 306
 Date Collected: 3/31/2010 9:35:39
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202056961|959141|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	154382.2	154382.2	103 %			09:36:09
1	Al 396.153Radial†	-59.8	15.8	3.0982 µg/L		3.0982 ppb	09:36:29
1	Ca 317.933Radial†	796.5	141.1	8.4132 µg/L		8.4132 ppb	09:36:29
1	Fe 238.204 Radial†	189.2	46.4	3.0698 µg/L		3.0698 ppb	09:36:29
1	K 766.490 Radial†	1569.1	-50.3	-20.063 µg/L		-20.063 ppb	09:36:09
1	Mg 279.077 IEC†	187.0	9.6	3.8084 µg/L		3.8084 ppb	09:36:29
1	Na 589.592 Radial†	1312.3	157.4	23.282 µg/L		23.282 ppb	09:36:09
1	Sr 421.552†	-163.5	96.7	0.2130 µg/L		0.2130 ppb	09:36:09
1	Sc 361.383	1804638.0	1804638.0	100.69 %			09:37:31
1	Y 371.029	1085581.0	1085581.0	100.65 %			09:37:31
1	Ag 328.068†	3805.8	-148.4	-0.5643 µg/L		-0.5643 ppb	09:37:33
1	As 188.979†	-15.1	-1.2	-0.3761 µg/L		-0.3761 ppb	09:37:53
1	B 249.677†	3375.4	-51.1	-0.8067 µg/L		-0.8067 ppb	09:37:53
1	Ba 233.527†	-64.2	74.5	0.3169 µg/L		0.3169 ppb	09:37:53
1	Be 313.107†	-958.5	64.7	0.0203 µg/L		0.0203 ppb	09:37:33
1	Cd 226.502†	-124.2	-13.6	-0.0908 µg/L		-0.0908 ppb	09:37:53
1	Co 228.616†	-187.2	-14.4	-0.1891 µg/L		-0.1891 ppb	09:37:53
1	Cr 267.716†	168.6	-13.2	-0.1136 µg/L		-0.1136 ppb	09:37:53
1	Cu 324.752†	2981.2	-16.7	-0.0640 µg/L		-0.0640 ppb	09:37:33
1	Mn 257.610†	275.4	80.5	0.1055 µg/L		0.1055 ppb	09:37:53
1	Mo 202.031†	-31.0	5.6	0.1773 µg/L		0.1773 ppb	09:37:53
1	Ni 231.604†	-97.5	0.8	0.0095 µg/L		0.0095 ppb	09:37:53
1	P 214.914†	-30.0	-6.5	-1.4874 µg/L		-1.4874 ppb	09:37:53
1	Pb 220.353†	79.5	17.0	1.0116 µg/L		1.0116 ppb	09:37:53
1	S 181.975 Axial†	98.7	5.8	4.6479 µg/L		4.6479 ppb	09:37:53
1	Sb 206.836†	73.0	-8.4	-1.0679 µg/L		-1.0679 ppb	09:37:53
1	Se 196.026†	19.0	-2.1	-0.798 µg/L		-0.798 ppb	09:37:53
1	SiO2†	1816.6	22.3	2.3032 µg/L		2.3032 ppb	09:37:53
1	Si 251.611†	990.1	55.2	0.8598 µg/L		0.8598 ppb	09:37:33
1	Sn 189.927†	10.9	13.3	0.8914 µg/L		0.8914 ppb	09:37:53
1	Ti 334.940†	1161.4	183.2	0.1785 µg/L		0.1785 ppb	09:37:33
1	Tl 190.801†	-98.1	19.3	2.5396 µg/L		2.5396 ppb	09:37:53
1	U 409.014†	-232.0	88.0	5.5209 µg/L		5.5209 ppb	09:37:33
1	V 292.402†	483.5	174.5	0.9085 µg/L		0.9085 ppb	09:37:33
1	Zn 213.857†	675.5	79.5	0.4784 µg/L		0.4784 ppb	09:37:53
2	Sc RADIAL	155716.2	155716.2	104 %			09:36:31
2	Al 396.153Radial†	-61.7	14.5	2.8239 µg/L		2.8239 ppb	09:36:51
2	Ca 317.933Radial†	811.0	148.4	8.8514 µg/L		8.8514 ppb	09:36:51
2	Fe 238.204 Radial†	169.1	25.4	1.6831 µg/L		1.6831 ppb	09:36:51
2	K 766.490 Radial†	1453.1	-175.2	-69.839 µg/L		-69.839 ppb	09:36:31
2	Mg 279.077 IEC†	179.2	0.5	0.1957 µg/L		0.1957 ppb	09:36:51
2	Na 589.592 Radial†	1261.6	97.6	14.492 µg/L		14.492 ppb	09:36:31
2	Sr 421.552†	-128.1	132.1	0.2911 µg/L		0.2911 ppb	09:36:31
2	Sc 361.383	1824194.4	1824194.4	101.78 %			09:37:55
2	Y 371.029	1095962.2	1095962.2	101.61 %			09:37:55
2	Ag 328.068†	3901.5	-94.9	-0.3630 µg/L		-0.3630 ppb	09:37:57
2	As 188.979†	-12.2	1.8	0.5686 µg/L		0.5686 ppb	09:38:17
2	B 249.677†	3373.3	-89.1	-1.4061 µg/L		-1.4061 ppb	09:38:17
2	Ba 233.527†	-42.9	96.1	0.4085 µg/L		0.4085 ppb	09:38:17
2	Be 313.107†	-800.1	230.5	0.0675 µg/L		0.0675 ppb	09:37:57
2	Cd 226.502†	-113.6	-1.8	-0.0124 µg/L		-0.0124 ppb	09:38:17
2	Co 228.616†	-179.8	-5.1	-0.0666 µg/L		-0.0666 ppb	09:38:17
2	Cr 267.716†	175.4	-8.3	-0.0721 µg/L		-0.0721 ppb	09:38:17
2	Cu 324.752†	2937.9	-91.0	-0.3717 µg/L		-0.3717 ppb	09:37:57
2	Mn 257.610†	253.2	55.7	0.0731 µg/L		0.0731 ppb	09:38:17
2	Mo 202.031†	-22.0	14.8	0.4632 µg/L		0.4632 ppb	09:38:17
2	Ni 231.604†	-76.4	22.5	0.2764 µg/L		0.2764 ppb	09:38:17
2	P 214.914†	-20.6	3.0	0.7068 µg/L		0.7068 ppb	09:38:17
2	Pb 220.353†	86.8	23.4	1.3910 µg/L		1.3910 ppb	09:38:17

2	S 181.975 Axial†	97.9	4.0	3.1939 µg/L	3.1939 ppb	09:38:17
2	Sb 206.836†	87.7	5.2	0.6763 µg/L	0.6763 ppb	09:38:17
2	Se 196.026†	9.3	-11.8	-4.60 µg/L	-4.60 ppb	09:38:17
2	SiO2†	1808.9	-4.6	-0.5100 µg/L	-0.5100 ppb	09:38:17
2	Si 251.611†	1063.9	117.1	1.8286 µg/L	1.8286 ppb	09:37:57
2	Sn 189.927†	12.2	14.5	0.9666 µg/L	0.9666 ppb	09:38:17
2	Ti 334.940†	1112.4	122.6	0.1196 µg/L	0.1196 ppb	09:37:57
2	Tl 190.801†	-106.7	12.0	1.5747 µg/L	1.5747 ppb	09:38:17
2	U 409.014†	-260.1	62.9	3.9277 µg/L	3.9277 ppb	09:37:57
2	V 292.402†	383.1	70.8	0.3733 µg/L	0.3733 ppb	09:37:57
2	Zn 213.857†	650.7	48.0	0.2872 µg/L	0.2872 ppb	09:38:17
3	Sc RADIAL	152452.2	152452.2	102 %		09:36:53
3	Al 396.153Radial†	-37.9	36.6	7.1578 µg/L	7.1578 ppb	09:37:13
3	Ca 317.933Radial†	790.6	145.1	8.6514 µg/L	8.6514 ppb	09:37:13
3	Fe 238.204 Radial†	182.9	42.5	2.8114 µg/L	2.8114 ppb	09:37:13
3	K 766.490 Radial†	1550.6	-49.2	-19.630 µg/L	-19.630 ppb	09:36:53
3	Mg 279.077 IEC†	177.7	2.7	1.0672 µg/L	1.0672 ppb	09:37:13
3	Na 589.592 Radial†	1391.0	250.9	37.106 µg/L	37.106 ppb	09:36:53
3	Sr 421.552†	-225.7	33.5	0.0738 µg/L	0.0738 ppb	09:36:53
3	Sc 361.383	1808444.3	1808444.3	100.90 %		09:38:19
3	Y 371.029	1086457.3	1086457.3	100.73 %		09:38:19
3	Ag 328.068†	4110.3	145.4	0.5775 µg/L	0.5775 ppb	09:38:21
3	As 188.979†	-20.4	-6.4	-2.0265 µg/L	-2.0265 ppb	09:38:42
3	B 249.677†	3393.5	-40.2	-0.6349 µg/L	-0.6349 ppb	09:38:42
3	Ba 233.527†	-57.3	81.5	0.3462 µg/L	0.3462 ppb	09:38:42
3	Be 313.107†	-1062.7	-36.6	-0.0091 µg/L	-0.0091 ppb	09:38:21
3	Cd 226.502†	-105.8	4.9	0.0327 µg/L	0.0327 ppb	09:38:42
3	Co 228.616†	-172.2	0.9	0.0125 µg/L	0.0125 ppb	09:38:42
3	Cr 267.716†	147.9	-34.1	-0.2865 µg/L	-0.2865 ppb	09:38:42
3	Cu 324.752†	3038.9	34.2	0.1455 µg/L	0.1455 ppb	09:38:21
3	Mn 257.610†	279.1	83.6	0.1097 µg/L	0.1097 ppb	09:38:42
3	Mo 202.031†	-22.3	14.4	0.4503 µg/L	0.4503 ppb	09:38:42
3	Ni 231.604†	-85.5	12.8	0.1575 µg/L	0.1575 ppb	09:38:42
3	P 214.914†	-13.2	10.3	2.3695 µg/L	2.3695 ppb	09:38:42
3	Pb 220.353†	64.9	2.4	0.1415 µg/L	0.1415 ppb	09:38:42
3	S 181.975 Axial†	98.1	4.9	3.9634 µg/L	3.9634 ppb	09:38:42
3	Sb 206.836†	59.5	-22.0	-2.7859 µg/L	-2.7859 ppb	09:38:42
3	Se 196.026†	13.2	-7.8	-3.04 µg/L	-3.04 ppb	09:38:42
3	SiO2†	1820.4	22.2	2.2880 µg/L	2.2880 ppb	09:38:42
3	Si 251.611†	1042.9	105.5	1.6440 µg/L	1.6440 ppb	09:38:21
3	Sn 189.927†	15.7	18.0	1.2022 µg/L	1.2022 ppb	09:38:42
3	Ti 334.940†	957.4	-21.5	-0.0229 µg/L	-0.0229 ppb	09:38:21
3	Tl 190.801†	-126.7	-8.8	-1.1532 µg/L	-1.1532 ppb	09:38:42
3	U 409.014†	-245.2	75.5	4.7006 µg/L	4.7006 ppb	09:38:21
3	V 292.402†	349.0	40.2	0.2147 µg/L	0.2147 ppb	09:38:21
3	Zn 213.857†	665.4	68.1	0.4086 µg/L	0.4086 ppb	09:38:42

Mean Data: 1202056961|959141|5

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1812425.5	101.13 %		0.579			0.57%
Sc RADIAL	154183.5	103 %		1.1			1.06%
Y 371.029	1089333.5	101.00 %		0.534			0.53%
Ag 328.068†	-32.7	-0.1166 µg/L		0.60949	-0.1166 ppb	0.60949	522.84%
Al 396.153Radial†	22.3	4.3600 µg/L		2.42688	4.3600 ppb	2.42688	55.66%
As 188.979†	-1.9	-0.6113 µg/L		1.31349	-0.6113 ppb	1.31349	214.85%
B 249.677†	-60.2	-0.9492 µg/L		0.40487	-0.9492 ppb	0.40487	42.65%
Ba 233.527†	84.0	0.3572 µg/L		0.04678	0.3572 ppb	0.04678	13.10%
Be 313.107†	86.2	0.0262 µg/L		0.03865	0.0262 ppb	0.03865	147.39%
Ca 317.933Radial†	144.8	8.6387 µg/L		0.21937	8.6387 ppb	0.21937	2.54%
Cd 226.502†	-3.5	-0.0235 µg/L		0.06249	-0.0235 ppb	0.06249	265.73%
Co 228.616†	-6.2	-0.0811 µg/L		0.10157	-0.0811 ppb	0.10157	125.30%
Cr 267.716†	-18.6	-0.1574 µg/L		0.11368	-0.1574 ppb	0.11368	72.23%
Cu 324.752†	-24.5	-0.0967 µg/L		0.26012	-0.0967 ppb	0.26012	268.95%
Fe 238.204 Radial†	38.1	2.5214 µg/L		0.73742	2.5214 ppb	0.73742	29.25%
K 766.490 Radial†	-91.6	-36.511 µg/L		28.8641	-36.511 ppb	28.8641	79.06%
Mg 279.077 IEC†	4.2	1.6904 µg/L		1.88528	1.6904 ppb	1.88528	111.53%
Mn 257.610†	73.2	0.0961 µg/L		0.02003	0.0961 ppb	0.02003	20.84%
Mo 202.031†	11.6	0.3636 µg/L		0.16147	0.3636 ppb	0.16147	44.41%
Na 589.592 Radial†	168.6	24.960 µg/L		11.4004	24.960 ppb	11.4004	45.67%

Ni 231.604†	12.0	0.1478 µg/L	0.13367	0.1478 ppb	0.13367	90.43%
P 214.914†	2.3	0.5296 µg/L	1.93457	0.5296 ppb	1.93457	365.26%
Pb 220.353†	14.3	0.8480 µg/L	0.64063	0.8480 ppb	0.64063	75.54%
S 181.975 Axial†	4.9	3.9350 µg/L	0.72741	3.9350 ppb	0.72741	18.49%
Sb 206.836†	-8.4	-1.0592 µg/L	1.73107	-1.0592 ppb	1.73107	163.44%
Se 196.026†	-7.2	-2.81 µg/L	1.911	-2.81 ppb	1.911	67.91%
SiO2†	13.3	1.3604 µg/L	1.61986	1.3604 ppb	1.61986	119.07%
Si 251.611†	92.6	1.4441 µg/L	0.51441	1.4441 ppb	0.51441	35.62%
Sn 189.927†	15.3	1.0201 µg/L	0.16211	1.0201 ppb	0.16211	15.89%
Sr 421.552†	87.4	0.1927 µg/L	0.11010	0.1927 ppb	0.11010	57.15%
Ti 334.940†	94.8	0.0918 µg/L	0.10353	0.0918 ppb	0.10353	112.84%
Tl 190.801†	7.5	0.9870 µg/L	1.91522	0.9870 ppb	1.91522	194.04%
U 409.014†	75.5	4.7164 µg/L	0.79672	4.7164 ppb	0.79672	16.89%
V 292.402†	95.2	0.4988 µg/L	0.36350	0.4988 ppb	0.36350	72.87%
Zn 213.857†	65.2	0.3914 µg/L	0.09676	0.3914 ppb	0.09676	24.72%

Sequence No.: 10

Sample ID: 248245001|959141|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 308

Date Collected: 3/31/2010 9:41:45

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248245001|959141|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	152703.8	152703.8	102 %		09:42:15
1	Al 396.153Radial†	159.5	230.7	45.236 µg/L	45.236 ppb	09:42:35
1	Ca 317.933Radial†	1571.4	910.8	54.323 µg/L	54.323 ppb	09:42:35
1	Fe 238.204 Radial†	941.9	787.9	52.152 µg/L	52.152 ppb	09:42:35
1	K 766.490 Radial†	1824.4	217.3	86.556 µg/L	86.556 ppb	09:42:15
1	Mg 279.077 IEC†	213.9	37.9	15.068 µg/L	15.068 ppb	09:42:35
1	Na 589.592 Radial†	2164.0	1008.1	148.93 µg/L	148.93 ppb	09:42:15
1	Sr 421.552†	-17.6	238.3	0.5248 µg/L	0.5248 ppb	09:42:15
1	Sc 361.383	1828965.5	1828965.5	102.05 %		09:43:37
1	Y 371.029	1096077.1	1096077.1	101.62 %		09:43:37
1	Ag 328.068†	3865.2	-140.5	-0.5332 µg/L	-0.5332 ppb	09:43:39
1	As 188.979†	-25.6	-11.3	-3.5649 µg/L	-3.5649 ppb	09:43:59
1	B 249.677†	5239.4	1730.9	27.321 µg/L	27.321 ppb	09:43:39
1	Ba 233.527†	73.0	209.8	0.8907 µg/L	0.8907 ppb	09:43:59
1	Be 313.107†	-964.6	71.3	0.0242 µg/L	0.0242 ppb	09:43:39
1	Cd 226.502†	-69.2	42.0	0.2754 µg/L	0.2754 ppb	09:43:59
1	Co 228.616†	-188.3	-12.9	-0.1719 µg/L	-0.1719 ppb	09:43:59
1	Cr 267.716†	282.9	96.5	0.7927 µg/L	0.7927 ppb	09:43:59
1	Cu 324.752†	2992.2	-45.3	-0.1691 µg/L	-0.1691 ppb	09:43:39
1	Mn 257.610†	832.1	622.3	0.8165 µg/L	0.8165 ppb	09:43:59
1	Mo 202.031†	-32.1	5.0	0.1595 µg/L	0.1595 ppb	09:43:59
1	Ni 231.604†	-34.9	63.4	0.7788 µg/L	0.7788 ppb	09:43:59
1	P 214.914†	-5.6	17.8	4.0984 µg/L	4.0984 ppb	09:43:59
1	Pb 220.353†	85.5	21.9	1.3007 µg/L	1.3007 ppb	09:43:59
1	S 181.975 Axial†	131.2	36.3	29.088 µg/L	29.088 ppb	09:43:59
1	Sb 206.836†	77.6	-5.0	-0.6399 µg/L	-0.6399 ppb	09:43:59
1	Se 196.026†	16.7	-4.6	-1.77 µg/L	-1.77 ppb	09:43:59
1	SiO2†	41017.4	38412.3	4003.9 µg/L	4003.9 ppb	09:43:39
1	Si 251.611†	122488.8	119102.3	1871.9 µg/L	1871.9 ppb	09:43:39
1	Sn 189.927†	12.3	14.6	0.9740 µg/L	0.9740 ppb	09:43:59
1	Ti 334.940†	1613.7	611.0	0.5979 µg/L	0.5979 ppb	09:43:39
1	Tl 190.801†	-105.6	13.3	1.7526 µg/L	1.7526 ppb	09:43:59
1	U 409.014†	-128.2	192.9	11.997 µg/L	11.997 ppb	09:43:39
1	V 292.402†	384.7	71.3	0.3763 µg/L	0.3763 ppb	09:43:39
1	Zn 213.857†	945.3	335.0	2.0064 µg/L	2.0064 ppb	09:43:59
2	Sc RADIAL	154820.4	154820.4	103 %		09:42:37
2	Al 396.153Radial†	150.0	219.3	43.010 µg/L	43.010 ppb	09:42:57
2	Ca 317.933Radial†	1562.4	881.1	52.548 µg/L	52.548 ppb	09:42:57
2	Fe 238.204 Radial†	946.0	779.2	51.579 µg/L	51.579 ppb	09:42:57
2	K 766.490 Radial†	1929.3	294.4	117.28 µg/L	117.28 ppb	09:42:37
2	Mg 279.077 IEC†	194.9	16.6	6.5892 µg/L	6.5892 ppb	09:42:57
2	Na 589.592 Radial†	2216.3	1029.8	152.11 µg/L	152.11 ppb	09:42:37
2	Sr 421.552†	12.5	267.7	0.5896 µg/L	0.5896 ppb	09:42:37
2	Sc 361.383	1807055.2	1807055.2	100.83 %		09:44:01
2	Y 371.029	1082814.0	1082814.0	100.39 %		09:44:01
2	Ag 328.068†	3551.2	-406.0	-1.5981 µg/L	-1.5981 ppb	09:44:03
2	As 188.979†	-17.3	-3.3	-1.0365 µg/L	-1.0365 ppb	09:44:23
2	B 249.677†	5109.5	1664.3	26.268 µg/L	26.268 ppb	09:44:03
2	Ba 233.527†	69.6	207.3	0.8802 µg/L	0.8802 ppb	09:44:23
2	Be 313.107†	-770.9	252.0	0.0700 µg/L	0.0700 ppb	09:44:03
2	Cd 226.502†	-64.4	45.9	0.3013 µg/L	0.3013 ppb	09:44:23
2	Co 228.616†	-156.6	16.3	0.2124 µg/L	0.2124 ppb	09:44:23
2	Cr 267.716†	309.4	126.2	1.0551 µg/L	1.0551 ppb	09:44:23
2	Cu 324.752†	2972.9	-28.9	-0.1181 µg/L	-0.1181 ppb	09:44:03
2	Mn 257.610†	823.9	624.2	0.8193 µg/L	0.8193 ppb	09:44:23
2	Mo 202.031†	-33.4	3.3	0.1047 µg/L	0.1047 ppb	09:44:23
2	Ni 231.604†	-43.0	55.0	0.6757 µg/L	0.6757 ppb	09:44:23
2	P 214.914†	-10.1	13.3	3.0412 µg/L	3.0412 ppb	09:44:23
2	Pb 220.353†	95.3	32.6	1.9535 µg/L	1.9535 ppb	09:44:23

2	S 181.975 Axial†	134.2	40.9	32.710 µg/L	32.710 ppb	09:44:23
2	Sb 206.836†	70.8	-10.7	-1.3803 µg/L	-1.3803 ppb	09:44:23
2	Se 196.026†	8.2	-12.8	-4.98 µg/L	-4.98 ppb	09:44:23
2	SiO2†	41122.5	39003.9	4065.6 µg/L	4065.6 ppb	09:44:03
2	Si 251.611†	122748.2	120814.9	1898.8 µg/L	1898.8 ppb	09:44:03
2	Sn 189.927†	8.6	11.0	0.7390 µg/L	0.7390 ppb	09:44:23
2	Ti 334.940†	1393.0	411.3	0.4097 µg/L	0.4097 ppb	09:44:03
2	Tl 190.801†	-122.5	-4.7	-0.6054 µg/L	-0.6054 ppb	09:44:23
2	U 409.014†	-454.2	-132.0	-8.1834 µg/L	-8.1834 ppb	09:44:03
2	V 292.402†	385.8	77.0	0.3931 µg/L	0.3931 ppb	09:44:03
2	Zn 213.857†	946.3	347.2	2.0807 µg/L	2.0807 ppb	09:44:23
3	Sc RADIAL	153292.1	153292.1	102 %		09:42:59
3	Al 396.153Radial†	134.0	205.1	40.236 µg/L	40.236 ppb	09:43:19
3	Ca 317.933Radial†	1539.6	873.8	52.117 µg/L	52.117 ppb	09:43:19
3	Fe 238.204 Radial†	955.2	797.3	52.778 µg/L	52.778 ppb	09:43:19
3	K 766.490 Radial†	1804.2	190.6	75.933 µg/L	75.933 ppb	09:42:59
3	Mg 279.077 IEC†	220.3	43.4	17.249 µg/L	17.249 ppb	09:43:19
3	Na 589.592 Radial†	2326.3	1158.9	171.23 µg/L	171.23 ppb	09:42:59
3	Sr 421.552†	-153.1	105.7	0.2326 µg/L	0.2326 ppb	09:42:59
3	Sc 361.383	1790985.1	1790985.1	99.929 %		09:44:25
3	Y 371.029	1074333.0	1074333.0	99.607 %		09:44:25
3	Ag 328.068†	4034.7	109.5	0.4194 µg/L	0.4194 ppb	09:44:28
3	As 188.979†	-4.1	9.7	3.0962 µg/L	3.0962 ppb	09:44:48
3	B 249.677†	5098.3	1698.6	26.810 µg/L	26.810 ppb	09:44:28
3	Ba 233.527†	58.7	197.0	0.8360 µg/L	0.8360 ppb	09:44:48
3	Be 313.107†	-1197.5	-181.7	-0.0545 µg/L	-0.0545 ppb	09:44:28
3	Cd 226.502†	-73.2	36.5	0.2382 µg/L	0.2382 ppb	09:44:48
3	Co 228.616†	-169.7	1.8	0.0217 µg/L	0.0217 ppb	09:44:48
3	Cr 267.716†	279.5	98.9	0.8280 µg/L	0.8280 ppb	09:44:48
3	Cu 324.752†	3099.1	123.9	0.5129 µg/L	0.5129 ppb	09:44:28
3	Mn 257.610†	878.9	686.5	0.9007 µg/L	0.9007 ppb	09:44:48
3	Mo 202.031†	-36.4	-0.0	0.0018 µg/L	0.0018 ppb	09:44:48
3	Ni 231.604†	-56.7	40.9	0.5018 µg/L	0.5018 ppb	09:44:48
3	P 214.914†	-4.4	18.9	4.3451 µg/L	4.3451 ppb	09:44:48
3	Pb 220.353†	76.8	14.9	0.8978 µg/L	0.8978 ppb	09:44:48
3	S 181.975 Axial†	127.3	35.1	28.137 µg/L	28.137 ppb	09:44:48
3	Sb 206.836†	82.8	1.9	0.2334 µg/L	0.2334 ppb	09:44:48
3	Se 196.026†	5.4	-15.5	-6.05 µg/L	-6.05 ppb	09:44:48
3	SiO2†	41275.3	39522.8	4119.7 µg/L	4119.7 ppb	09:44:28
3	Si 251.611†	123350.6	122510.1	1925.4 µg/L	1925.4 ppb	09:44:28
3	Sn 189.927†	14.3	16.7	1.1215 µg/L	1.1215 ppb	09:44:48
3	Ti 334.940†	1778.9	809.9	0.8018 µg/L	0.8018 ppb	09:44:28
3	Tl 190.801†	-134.2	-17.6	-2.2863 µg/L	-2.2863 ppb	09:44:48
3	U 409.014†	-436.1	-118.0	-7.3264 µg/L	-7.3264 ppb	09:44:28
3	V 292.402†	326.2	20.7	0.0997 µg/L	0.0997 ppb	09:44:28
3	Zn 213.857†	968.4	377.8	2.2653 µg/L	2.2653 ppb	09:44:48

Mean Data: 248245001|959141|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1809001.9	100.93 %		1.064			1.05%
Sc RADIAL	153605.4	102 %		0.7			0.71%
Y 371.029	1084408.1	100.54 %		1.016			1.01%
Ag 328.068†	-145.7	-0.5706 µg/L		1.00930	-0.5706 ppb	1.00930	176.88%
Al 396.153Radial†	218.4	42.827 µg/L		2.5053	42.827 ppb	2.5053	5.85%
As 188.979†	-1.6	-0.5017 µg/L		3.36262	-0.5017 ppb	3.36262	670.20%
B 249.677†	1697.9	26.800 µg/L		0.5267	26.800 ppb	0.5267	1.97%
Ba 233.527†	204.7	0.8690 µg/L		0.02900	0.8690 ppb	0.02900	3.34%
Be 313.107†	47.2	0.0132 µg/L		0.06298	0.0132 ppb	0.06298	476.13%
Ca 317.933Radial†	888.6	52.996 µg/L		1.1692	52.996 ppb	1.1692	2.21%
Cd 226.502†	41.4	0.2717 µg/L		0.03172	0.2717 ppb	0.03172	11.68%
Co 228.616†	1.7	0.0207 µg/L		0.19216	0.0207 ppb	0.19216	926.48%
Cr 267.716†	107.2	0.8919 µg/L		0.14237	0.8919 ppb	0.14237	15.96%
Cu 324.752†	16.6	0.0752 µg/L		0.37989	0.0752 ppb	0.37989	504.93%
Fe 238.204 Radial†	788.2	52.169 µg/L		0.5997	52.169 ppb	0.5997	1.15%
K 766.490 Radial†	234.1	93.257 µg/L		21.4730	93.257 ppb	21.4730	23.03%
Mg 279.077 IEC†	32.7	12.969 µg/L		5.6316	12.969 ppb	5.6316	43.42%
Mn 257.610†	644.3	0.8455 µg/L		0.04784	0.8455 ppb	0.04784	5.66%
Mo 202.031†	2.8	0.0886 µg/L		0.08007	0.0886 ppb	0.08007	90.33%
Na 589.592 Radial†	1065.6	157.42 µg/L		12.061	157.42 ppb	12.061	7.66%

Ni 231.604†	53.1	0.6521 µg/L	0.13998	0.6521 ppb	0.13998	21.46%
P 214.914†	16.7	3.8282 µg/L	0.69270	3.8282 ppb	0.69270	18.09%
Pb 220.353†	23.2	1.3840 µg/L	0.53271	1.3840 ppb	0.53271	38.49%
S 181.975 Axial†	37.4	29.978 µg/L	2.4133	29.978 ppb	2.4133	8.05%
Sb 206.836†	-4.6	-0.5956 µg/L	0.80779	-0.5956 ppb	0.80779	135.62%
Se 196.026†	-11.0	-4.27 µg/L	2.227	-4.27 ppb	2.227	52.20%
SiO2†	38979.7	4063.1 µg/L	57.92	4063.1 ppb	57.92	1.43%
Si 251.611†	120809.1	1898.7 µg/L	26.78	1898.7 ppb	26.78	1.41%
Sn 189.927†	14.1	0.9449 µg/L	0.19294	0.9449 ppb	0.19294	20.42%
Sr 421.552†	203.9	0.4490 µg/L	0.19017	0.4490 ppb	0.19017	42.36%
Ti 334.940†	610.7	0.6032 µg/L	0.19612	0.6032 ppb	0.19612	32.52%
Tl 190.801†	-3.0	-0.3797 µg/L	2.02887	-0.3797 ppb	2.02887	534.31%
U 409.014†	-19.0	-1.1710 µg/L	11.41166	-1.1710 ppb	11.41166	974.49%
V 292.402†	56.3	0.2897 µg/L	0.16478	0.2897 ppb	0.16478	56.88%
Zn 213.857†	353.3	2.1175 µg/L	0.13330	2.1175 ppb	0.13330	6.30%

Sequence No.: 12

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 9:47:51

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	150864.4	150864.4	101 %		09:48:25
1	Al 396.153Radial†	25964.0	25893.9	5055.7 µg/L	5055.7 ppb	09:48:25
1	Ca 317.933Radial†	85831.5	84722.1	5052.9 µg/L	5052.9 ppb	09:48:25
1	Fe 238.204 Radial†	76467.3	75905.4	5024.3 µg/L	5024.3 ppb	09:48:25
1	K 766.490 Radial†	14091.0	12437.6	4953.3 µg/L	4953.3 ppb	09:48:25
1	Mg 279.077 IEC†	13152.8	12907.5	5151.2 µg/L	5151.2 ppb	09:48:25
1	Na 589.592 Radial†	69015.9	67515.0	9975.0 µg/L	9975.0 ppb	09:48:25
1	Sr 421.552†	227795.4	226786.7	499.83 µg/L	499.83 ppb	09:48:23
1	Sc 361.383	1765444.2	1765444.2	98.504 %		09:48:52
1	Y 371.029	1050975.7	1050975.7	97.441 %		09:48:52
1	Ag 328.068†	127988.7	126004.4	499.95 µg/L	499.95 ppb	09:48:52
1	As 188.979†	1539.1	1576.3	506.61 µg/L	506.61 ppb	09:49:12
1	B 249.677†	34135.2	31250.3	491.53 µg/L	491.53 ppb	09:48:52
1	Ba 233.527†	115212.6	117100.6	497.71 µg/L	497.71 ppb	09:48:52
1	Be 313.107†	1703319.1	1730204.7	497.98 µg/L	497.98 ppb	09:48:52
1	Cd 226.502†	73054.8	74274.0	495.85 µg/L	495.85 ppb	09:48:52
1	Co 228.616†	37074.6	37809.2	498.08 µg/L	498.08 ppb	09:48:52
1	Cr 267.716†	58992.6	59707.9	495.18 µg/L	495.18 ppb	09:48:52
1	Cu 324.752†	121150.3	120012.8	496.45 µg/L	496.45 ppb	09:48:52
1	Mn 257.610†	375568.6	381079.5	500.23 µg/L	500.23 ppb	09:48:52
1	Mo 202.031†	15777.6	16053.6	503.42 µg/L	503.42 ppb	09:49:12
1	Ni 231.604†	39870.0	40573.2	498.43 µg/L	498.43 ppb	09:48:52
1	P 214.914†	10717.2	10903.3	2505.8 µg/L	2505.8 ppb	09:49:12
1	Pb 220.353†	8412.1	8478.0	507.12 µg/L	507.12 ppb	09:49:12
1	S 181.975 Axial†	1324.3	1252.2	1006.6 µg/L	1006.6 ppb	09:49:12
1	Sb 206.836†	3965.5	3944.8	503.65 µg/L	503.65 ppb	09:49:12
1	Se 196.026†	1279.8	1278.3	500 µg/L	500 ppb	09:49:12
1	SiO2†	52782.1	51801.9	5378.0 µg/L	5378.0 ppb	09:48:52
1	Si 251.611†	158966.1	160452.3	2511.7 µg/L	2511.7 ppb	09:48:52
1	Sn 189.927†	7427.8	7543.1	505.57 µg/L	505.57 ppb	09:49:12
1	Ti 334.940†	498637.4	505240.2	497.91 µg/L	497.91 ppb	09:48:52
1	Tl 190.801†	3682.1	3854.8	511.98 µg/L	511.98 ppb	09:49:12
1	U 409.014†	7065.7	7491.5	495.51 µg/L	495.51 ppb	09:48:52
1	V 292.402†	94256.0	95381.9	500.64 µg/L	500.64 ppb	09:48:52
1	Zn 213.857†	81959.7	82613.2	493.29 µg/L	493.29 ppb	09:48:52
2	Sc RADIAL	149411.3	149411.3	99.6 %		09:48:29
2	Al 396.153Radial†	26354.9	26537.4	5181.7 µg/L	5181.7 ppb	09:48:29
2	Ca 317.933Radial†	86931.1	86656.3	5168.3 µg/L	5168.3 ppb	09:48:29
2	Fe 238.204 Radial†	77474.1	77655.9	5140.2 µg/L	5140.2 ppb	09:48:29
2	K 766.490 Radial†	14285.4	12769.1	5085.3 µg/L	5085.3 ppb	09:48:29
2	Mg 279.077 IEC†	13318.4	13201.1	5268.2 µg/L	5268.2 ppb	09:48:29
2	Na 589.592 Radial†	69760.9	68930.5	10184 µg/L	10184 ppb	09:48:29
2	Sr 421.552†	225711.6	226897.4	500.07 µg/L	500.07 ppb	09:48:27
2	Sc 361.383	1751017.1	1751017.1	97.699 %		09:49:15
2	Y 371.029	1042557.9	1042557.9	96.661 %		09:49:15
2	Ag 328.068†	128155.2	127245.4	504.88 µg/L	504.88 ppb	09:49:15
2	As 188.979†	1551.4	1601.7	514.75 µg/L	514.75 ppb	09:49:35
2	B 249.677†	34357.6	31763.4	499.60 µg/L	499.60 ppb	09:49:15
2	Ba 233.527†	115603.7	118464.7	503.51 µg/L	503.51 ppb	09:49:15
2	Be 313.107†	1710868.5	1752179.2	504.31 µg/L	504.31 ppb	09:49:15
2	Cd 226.502†	73300.3	75136.4	501.60 µg/L	501.60 ppb	09:49:15
2	Co 228.616†	37241.2	38289.9	504.41 µg/L	504.41 ppb	09:49:15
2	Cr 267.716†	59313.1	60529.3	501.99 µg/L	501.99 ppb	09:49:15
2	Cu 324.752†	121675.6	121563.8	502.87 µg/L	502.87 ppb	09:49:15
2	Mn 257.610†	377338.8	386032.8	506.73 µg/L	506.73 ppb	09:49:15
2	Mo 202.031†	15805.3	16213.9	508.45 µg/L	508.45 ppb	09:49:35
2	Ni 231.604†	39897.0	40934.2	502.86 µg/L	502.86 ppb	09:49:15
2	P 214.914†	10750.8	11027.3	2534.3 µg/L	2534.3 ppb	09:49:35
2	Pb 220.353†	8403.4	8539.4	510.80 µg/L	510.80 ppb	09:49:35

2	S 181.975 Axial†	1322.3	1261.2	1013.9 µg/L	1013.9 ppb	09:49:35
2	Sb 206.836†	3983.2	3996.1	510.17 µg/L	510.17 ppb	09:49:35
2	Se 196.026†	1287.1	1296.4	507 µg/L	507 ppb	09:49:35
2	SiO2†	52936.7	52401.6	5440.3 µg/L	5440.3 ppb	09:49:15
2	Si 251.611†	159526.3	162355.4	2541.5 µg/L	2541.5 ppb	09:49:15
2	Sn 189.927†	7441.9	7619.7	510.70 µg/L	510.70 ppb	09:49:35
2	Ti 334.940†	500758.9	511582.5	504.16 µg/L	504.16 ppb	09:49:15
2	Tl 190.801†	3669.7	3872.9	514.45 µg/L	514.45 ppb	09:49:35
2	U 409.014†	7059.5	7544.2	499.13 µg/L	499.13 ppb	09:49:15
2	V 292.402†	94586.9	96508.9	506.54 µg/L	506.54 ppb	09:49:15
2	Zn 213.857†	82211.9	83556.8	498.93 µg/L	498.93 ppb	09:49:15
3	Sc RADIAL	149097.5	149097.5	99.4 %		09:48:33
3	Al 396.153Radial†	25977.3	26213.2	5118.4 µg/L	5118.4 ppb	09:48:33
3	Ca 317.933Radial†	85623.9	85524.8	5100.8 µg/L	5100.8 ppb	09:48:33
3	Fe 238.204 Radial†	76032.9	76369.5	5055.1 µg/L	5055.1 ppb	09:48:33
3	K 766.490 Radial†	14170.4	12683.6	5051.3 µg/L	5051.3 ppb	09:48:33
3	Mg 279.077 IEC†	13151.1	13060.9	5212.3 µg/L	5212.3 ppb	09:48:33
3	Na 589.592 Radial†	68857.4	68168.8	10072 µg/L	10072 ppb	09:48:33
3	Sr 421.552†	228875.3	230557.9	508.14 µg/L	508.14 ppb	09:48:31
3	Sc 361.383	1780303.4	1780303.4	99.333 %		09:49:38
3	Y 371.029	1059619.9	1059619.9	98.243 %		09:49:38
3	Ag 328.068†	129386.1	126326.8	501.20 µg/L	501.20 ppb	09:49:38
3	As 188.979†	1560.9	1585.2	509.46 µg/L	509.46 ppb	09:49:59
3	B 249.677†	34601.7	31430.7	494.36 µg/L	494.36 ppb	09:49:38
3	Ba 233.527†	116382.4	117302.1	498.57 µg/L	498.57 ppb	09:49:38
3	Be 313.107†	1725055.2	1737654.3	500.12 µg/L	500.12 ppb	09:49:38
3	Cd 226.502†	74340.1	74949.0	500.36 µg/L	500.36 ppb	09:49:38
3	Co 228.616†	37640.3	38064.6	501.45 µg/L	501.45 ppb	09:49:38
3	Cr 267.716†	59794.9	60015.6	497.74 µg/L	497.74 ppb	09:49:38
3	Cu 324.752†	122503.4	120348.5	497.83 µg/L	497.83 ppb	09:49:38
3	Mn 257.610†	379999.6	382357.9	501.91 µg/L	501.91 ppb	09:49:38
3	Mo 202.031†	15880.9	16023.9	502.49 µg/L	502.49 ppb	09:49:59
3	Ni 231.604†	40437.0	40806.1	501.29 µg/L	501.29 ppb	09:49:38
3	P 214.914†	10790.2	10885.9	2501.8 µg/L	2501.8 ppb	09:49:59
3	Pb 220.353†	8476.5	8471.5	506.75 µg/L	506.75 ppb	09:49:59
3	S 181.975 Axial†	1322.5	1239.2	996.22 µg/L	996.22 ppb	09:49:59
3	Sb 206.836†	4005.3	3951.2	504.42 µg/L	504.42 ppb	09:49:59
3	Se 196.026†	1296.6	1284.4	503 µg/L	503 ppb	09:49:59
3	SiO2†	53447.8	52024.8	5401.3 µg/L	5401.3 ppb	09:49:38
3	Si 251.611†	161197.1	161351.4	2525.9 µg/L	2525.9 ppb	09:49:38
3	Sn 189.927†	7473.4	7526.1	504.43 µg/L	504.43 ppb	09:49:59
3	Ti 334.940†	503715.4	506127.2	498.79 µg/L	498.79 ppb	09:49:38
3	Tl 190.801†	3695.1	3836.7	509.61 µg/L	509.61 ppb	09:49:59
3	U 409.014†	6924.8	7289.7	482.99 µg/L	482.99 ppb	09:49:38
3	V 292.402†	95094.6	95427.5	500.86 µg/L	500.86 ppb	09:49:38
3	Zn 213.857†	83101.5	83068.1	496.01 µg/L	496.01 ppb	09:49:38

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1765588.2	98.512 %	0.8171			0.83%
Sc RADIAL	149791.1	99.8 %	0.63			0.63%
Y 371.029	1051051.2	97.448 %	0.7910			0.81%
Ag 328.068†	126525.5	502.01 µg/L	2.564	502.01 ppb	2.564	0.51%
QC value within limits for Ag 328.068 Recovery = 100.40%						
Al 396.153Radial†	26214.8	5118.6 µg/L	63.00	5118.6 ppb	63.00	1.23%
QC value within limits for Al 396.153Radial Recovery = 102.37%						
As 188.979†	1587.7	510.27 µg/L	4.135	510.27 ppb	4.135	0.81%
QC value within limits for As 188.979 Recovery = 102.05%						
B 249.677†	31481.5	495.16 µg/L	4.098	495.16 ppb	4.098	0.83%
QC value within limits for B 249.677 Recovery = 99.03%						
Ba 233.527†	117622.5	499.93 µg/L	3.129	499.93 ppb	3.129	0.63%
QC value within limits for Ba 233.527 Recovery = 99.99%						
Be 313.107†	1740012.7	500.80 µg/L	3.217	500.80 ppb	3.217	0.64%
QC value within limits for Be 313.107 Recovery = 100.16%						
Ca 317.933Radial†	85634.4	5107.3 µg/L	57.96	5107.3 ppb	57.96	1.13%
QC value within limits for Ca 317.933Radial Recovery = 102.15%						
Cd 226.502†	74786.5	499.27 µg/L	3.026	499.27 ppb	3.026	0.61%
QC value within limits for Cd 226.502 Recovery = 99.85%						
Co 228.616†	38054.6	501.31 µg/L	3.166	501.31 ppb	3.166	0.63%

QC value within limits for Co 228.616 Recovery = 100.26%							
Cr 267.716†	60084.3	498.30 µg/L	3.443	498.30 ppb	3.443	0.69%	
QC value within limits for Cr 267.716 Recovery = 99.66%							
Cu 324.752†	120641.7	499.05 µg/L	3.380	499.05 ppb	3.380	0.68%	
QC value within limits for Cu 324.752 Recovery = 99.81%							
Fe 238.204 Radial†	76643.6	5073.2 µg/L	60.03	5073.2 ppb	60.03	1.18%	
QC value within limits for Fe 238.204 Radial Recovery = 101.46%							
K 766.490 Radial†	12630.1	5030.0 µg/L	68.55	5030.0 ppb	68.55	1.36%	
QC value within limits for K 766.490 Radial Recovery = 100.60%							
Mg 279.077 IEC†	13056.5	5210.6 µg/L	58.51	5210.6 ppb	58.51	1.12%	
QC value within limits for Mg 279.077 IEC Recovery = 104.21%							
Mn 257.610†	383156.7	502.96 µg/L	3.375	502.96 ppb	3.375	0.67%	
QC value within limits for Mn 257.610 Recovery = 100.59%							
Mo 202.031†	16097.2	504.79 µg/L	3.206	504.79 ppb	3.206	0.64%	
QC value within limits for Mo 202.031 Recovery = 100.96%							
Na 589.592 Radial†	68204.7	10077 µg/L	104.7	10077 ppb	104.7	1.04%	
QC value within limits for Na 589.592 Radial Recovery = 100.77%							
Ni 231.604†	40771.2	500.86 µg/L	2.249	500.86 ppb	2.249	0.45%	
QC value within limits for Ni 231.604 Recovery = 100.17%							
P 214.914†	10938.9	2514.0 µg/L	17.72	2514.0 ppb	17.72	0.70%	
QC value within limits for P 214.914 Recovery = 100.56%							
Pb 220.353†	8496.3	508.22 µg/L	2.243	508.22 ppb	2.243	0.44%	
QC value within limits for Pb 220.353 Recovery = 101.64%							
S 181.975 Axial†	1250.8	1005.6 µg/L	8.88	1005.6 ppb	8.88	0.88%	
QC value within limits for S 181.975 Axial Recovery = 100.56%							
Sb 206.836†	3964.0	506.08 µg/L	3.562	506.08 ppb	3.562	0.70%	
QC value within limits for Sb 206.836 Recovery = 101.22%							
Se 196.026†	1286.4	503 µg/L	3.6	503 ppb	3.6	0.72%	
QC value within limits for Se 196.026 Recovery = 100.70%							
SiO2†	52076.1	5406.5 µg/L	31.47	5406.5 ppb	31.47	0.58%	
QC value within limits for SiO2 Recovery = 101.10%							
Si 251.611†	161386.4	2526.4 µg/L	14.91	2526.4 ppb	14.91	0.59%	
QC value within limits for Si 251.611 Recovery = 101.05%							
Sn 189.927†	7563.0	506.90 µg/L	3.341	506.90 ppb	3.341	0.66%	
QC value within limits for Sn 189.927 Recovery = 101.38%							
Sr 421.552†	228080.6	502.68 µg/L	4.730	502.68 ppb	4.730	0.94%	
QC value within limits for Sr 421.552 Recovery = 100.54%							
Ti 334.940†	507649.9	500.29 µg/L	3.383	500.29 ppb	3.383	0.68%	
QC value within limits for Ti 334.940 Recovery = 100.06%							
Tl 190.801†	3854.8	512.01 µg/L	2.421	512.01 ppb	2.421	0.47%	
QC value within limits for Tl 190.801 Recovery = 102.40%							
U 409.014†	7441.8	492.55 µg/L	8.468	492.55 ppb	8.468	1.72%	
QC value within limits for U 409.014 Recovery = 98.51%							
V 292.402†	95772.8	502.68 µg/L	3.345	502.68 ppb	3.345	0.67%	
QC value within limits for V 292.402 Recovery = 100.54%							
Zn 213.857†	83079.4	496.08 µg/L	2.819	496.08 ppb	2.819	0.57%	
QC value within limits for Zn 213.857 Recovery = 99.22%							
All analyte(s) passed QC.							

Sequence No.: 13

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 9:50:06

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	152841.5	152841.5	102 %		09:50:35
1	Al 396.153Radial†	-47.2	27.6	5.4064 µg/L	5.4064 ppb	09:50:55
1	Ca 317.933Radial†	629.8	-14.8	-0.8832 µg/L	-0.8832 ppb	09:50:55
1	Fe 238.204 Radial†	172.8	32.1	2.1269 µg/L	2.1269 ppb	09:50:55
1	K 766.490 Radial†	1693.6	87.3	34.776 µg/L	34.776 ppb	09:50:35
1	Mg 279.077 IEC†	170.4	-5.0	-1.9738 µg/L	-1.9738 ppb	09:50:55
1	Na 589.592 Radial†	1347.9	205.1	30.289 µg/L	30.289 ppb	09:50:35
1	Sr 421.552†	-119.7	138.1	0.3043 µg/L	0.3043 ppb	09:50:35
1	Sc 361.383	1778476.9	1778476.9	99.231 %		09:51:43
1	Y 371.029	1070202.1	1070202.1	99.224 %		09:51:43
1	Ag 328.068†	3955.0	57.6	0.2265 µg/L	0.2265 ppb	09:51:45
1	As 188.979†	-13.2	0.5	0.1525 µg/L	0.1525 ppb	09:52:05
1	B 249.677†	3411.3	34.4	0.5410 µg/L	0.5410 ppb	09:52:05
1	Ba 233.527†	-131.6	5.6	0.0235 µg/L	0.0235 ppb	09:52:05
1	Be 313.107†	-1123.5	-115.6	-0.0309 µg/L	-0.0309 ppb	09:51:45
1	Cd 226.502†	-109.2	-0.3	-0.0021 µg/L	-0.0021 ppb	09:52:05
1	Co 228.616†	-144.4	26.1	0.3436 µg/L	0.3436 ppb	09:52:05
1	Cr 267.716†	180.5	1.2	0.0032 µg/L	0.0032 ppb	09:52:05
1	Cu 324.752†	2913.8	-41.0	-0.1621 µg/L	-0.1621 ppb	09:51:45
1	Mn 257.610†	214.9	23.5	0.0310 µg/L	0.0310 ppb	09:52:05
1	Mo 202.031†	-30.8	5.4	0.1684 µg/L	0.1684 ppb	09:52:05
1	Ni 231.604†	-86.7	10.2	0.1255 µg/L	0.1255 ppb	09:52:05
1	P 214.914†	-18.0	5.2	1.1997 µg/L	1.1997 ppb	09:52:05
1	Pb 220.353†	64.4	3.0	0.1737 µg/L	0.1737 ppb	09:52:05
1	S 181.975 Axial†	91.7	0.2	0.1614 µg/L	0.1614 ppb	09:52:05
1	Sb 206.836†	86.8	6.6	0.8366 µg/L	0.8366 ppb	09:52:05
1	Se 196.026†	9.3	-11.6	-4.50 µg/L	-4.50 ppb	09:52:05
1	SiO2†	1771.0	2.9	0.2887 µg/L	0.2887 ppb	09:52:05
1	Si 251.611†	947.9	27.1	0.4201 µg/L	0.4201 ppb	09:51:45
1	Sn 189.927†	6.0	8.5	0.5672 µg/L	0.5672 ppb	09:52:05
1	Ti 334.940†	960.3	-2.6	-0.0057 µg/L	-0.0057 ppb	09:51:45
1	Tl 190.801†	-97.1	19.0	2.4746 µg/L	2.4746 ppb	09:52:05
1	U 409.014†	-188.8	128.2	7.9177 µg/L	7.9177 ppb	09:51:45
1	V 292.402†	162.6	-141.8	-0.7275 µg/L	-0.7275 ppb	09:51:45
1	Zn 213.857†	616.3	29.7	0.1780 µg/L	0.1780 ppb	09:52:05
2	Sc RADIAL	148741.3	148741.3	99.1 %		09:50:57
2	Al 396.153Radial†	-46.3	27.2	5.3285 µg/L	5.3285 ppb	09:51:17
2	Ca 317.933Radial†	643.0	15.6	0.9303 µg/L	0.9303 ppb	09:51:17
2	Fe 238.204 Radial†	171.4	35.4	2.3402 µg/L	2.3402 ppb	09:51:17
2	K 766.490 Radial†	1502.4	-59.8	-23.837 µg/L	-23.837 ppb	09:50:57
2	Mg 279.077 IEC†	187.5	16.9	6.7230 µg/L	6.7230 ppb	09:51:17
2	Na 589.592 Radial†	1290.8	184.0	27.218 µg/L	27.218 ppb	09:50:57
2	Sr 421.552†	-303.4	-50.5	-0.1113 µg/L	-0.1113 ppb	09:50:57
2	Sc 361.383	1760161.0	1760161.0	98.209 %		09:52:07
2	Y 371.029	1059746.1	1059746.1	98.255 %		09:52:07
2	Ag 328.068†	3791.1	-67.9	-0.2437 µg/L	-0.2437 ppb	09:52:09
2	As 188.979†	-17.7	-4.2	-1.3299 µg/L	-1.3299 ppb	09:52:29
2	B 249.677†	3367.4	25.5	0.4011 µg/L	0.4011 ppb	09:52:29
2	Ba 233.527†	-125.0	11.0	0.0473 µg/L	0.0473 ppb	09:52:29
2	Be 313.107†	-909.9	90.2	0.0285 µg/L	0.0285 ppb	09:52:09
2	Cd 226.502†	-118.5	-10.9	-0.0728 µg/L	-0.0728 ppb	09:52:29
2	Co 228.616†	-153.5	15.2	0.2007 µg/L	0.2007 ppb	09:52:29
2	Cr 267.716†	213.4	36.6	0.2971 µg/L	0.2971 ppb	09:52:29
2	Cu 324.752†	2987.9	65.0	0.2756 µg/L	0.2756 ppb	09:52:09
2	Mn 257.610†	238.4	49.7	0.0650 µg/L	0.0650 ppb	09:52:29
2	Mo 202.031†	-26.6	9.4	0.2945 µg/L	0.2945 ppb	09:52:29
2	Ni 231.604†	-95.7	0.2	0.0025 µg/L	0.0025 ppb	09:52:29
2	P 214.914†	-25.4	-2.5	-0.5824 µg/L	-0.5824 ppb	09:52:29
2	Pb 220.353†	57.8	-3.1	-0.1895 µg/L	-0.1895 ppb	09:52:29

2	S 181.975 Axial†	91.5	1.0	0.7942 µg/L	0.7942 ppb	09:52:29
2	Sb 206.836†	69.6	-10.1	-1.2808 µg/L	-1.2808 ppb	09:52:29
2	Se 196.026†	14.7	-6.0	-2.32 µg/L	-2.32 ppb	09:52:29
2	SiO2†	1752.2	2.3	0.2200 µg/L	0.2200 ppb	09:52:29
2	Si 251.611†	1099.8	191.8	3.0040 µg/L	3.0040 ppb	09:52:09
2	Sn 189.927†	11.1	13.8	0.9213 µg/L	0.9213 ppb	09:52:29
2	Ti 334.940†	776.3	-179.8	-0.1815 µg/L	-0.1815 ppb	09:52:09
2	Tl 190.801†	-106.7	8.2	1.0756 µg/L	1.0756 ppb	09:52:29
2	U 409.014†	-178.5	136.7	8.5480 µg/L	8.5480 ppb	09:52:09
2	V 292.402†	489.4	192.7	1.0080 µg/L	1.0080 ppb	09:52:09
2	Zn 213.857†	602.6	22.3	0.1338 µg/L	0.1338 ppb	09:52:29
3	Sc RADIAL	149011.0	149011.0	99.3 %		09:51:19
3	Al 396.153Radial†	-57.1	16.5	3.2235 µg/L	3.2235 ppb	09:51:39
3	Ca 317.933Radial†	662.3	33.8	2.0163 µg/L	2.0163 ppb	09:51:39
3	Fe 238.204 Radial†	160.6	24.1	1.5985 µg/L	1.5985 ppb	09:51:39
3	K 766.490 Radial†	1536.4	-28.3	-11.266 µg/L	-11.266 ppb	09:51:19
3	Mg 279.077 IEC†	170.0	-1.0	-0.4130 µg/L	-0.4130 ppb	09:51:39
3	Na 589.592 Radial†	1289.1	180.0	26.619 µg/L	26.619 ppb	09:51:19
3	Sr 421.552†	-193.8	60.4	0.1332 µg/L	0.1332 ppb	09:51:19
3	Sc 361.383	1787845.7	1787845.7	99.754 %		09:52:32
3	Y 371.029	1075984.5	1075984.5	99.760 %		09:52:32
3	Ag 328.068†	3936.1	17.7	0.0676 µg/L	0.0676 ppb	09:52:34
3	As 188.979†	-20.4	-6.6	-2.0902 µg/L	-2.0902 ppb	09:52:54
3	B 249.677†	3418.0	23.0	0.3635 µg/L	0.3635 ppb	09:52:54
3	Ba 233.527†	-133.6	4.3	0.0183 µg/L	0.0183 ppb	09:52:54
3	Be 313.107†	-1121.6	-107.8	-0.0311 µg/L	-0.0311 ppb	09:52:34
3	Cd 226.502†	-83.2	26.3	0.1757 µg/L	0.1757 ppb	09:52:54
3	Co 228.616†	-165.2	6.0	0.0784 µg/L	0.0784 ppb	09:52:54
3	Cr 267.716†	184.0	3.7	0.0310 µg/L	0.0310 ppb	09:52:54
3	Cu 324.752†	2891.1	-79.2	-0.3266 µg/L	-0.3266 ppb	09:52:34
3	Mn 257.610†	244.4	52.0	0.0683 µg/L	0.0683 ppb	09:52:54
3	Mo 202.031†	-28.6	7.8	0.2443 µg/L	0.2443 ppb	09:52:54
3	Ni 231.604†	-80.8	16.6	0.2044 µg/L	0.2044 ppb	09:52:54
3	P 214.914†	-38.5	-15.3	-3.5289 µg/L	-3.5289 ppb	09:52:54
3	Pb 220.353†	52.8	-8.9	-0.5318 µg/L	-0.5318 ppb	09:52:54
3	S 181.975 Axial†	102.3	10.3	8.2584 µg/L	8.2584 ppb	09:52:54
3	Sb 206.836†	80.9	0.1	0.0163 µg/L	0.0163 ppb	09:52:54
3	Se 196.026†	16.6	-4.3	-1.66 µg/L	-1.66 ppb	09:52:54
3	SiO2†	1779.5	2.1	0.2030 µg/L	0.2030 ppb	09:52:54
3	Si 251.611†	932.8	7.0	0.1044 µg/L	0.1044 ppb	09:52:34
3	Sn 189.927†	3.0	5.5	0.3691 µg/L	0.3691 ppb	09:52:54
3	Ti 334.940†	920.5	-47.5	-0.0466 µg/L	-0.0466 ppb	09:52:34
3	Tl 190.801†	-107.6	8.9	1.1700 µg/L	1.1700 ppb	09:52:54
3	U 409.014†	-323.8	-6.1	-0.3855 µg/L	-0.3855 ppb	09:52:34
3	V 292.402†	286.8	-18.2	-0.0919 µg/L	-0.0919 ppb	09:52:34
3	Zn 213.857†	605.5	15.7	0.0931 µg/L	0.0931 ppb	09:52:54

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1775494.5	99.065 %	0.7857			0.79%
Sc RADIAL	150197.9	100 %	1.5			1.53%
Y 371.029	1068644.3	99.080 %	0.7631			0.77%
Ag 328.068†	2.4	0.0168 µg/L	0.23921	0.0168 ppb	0.23921	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	23.8	4.6528 µg/L	1.23843	4.6528 ppb	1.23843	26.62%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.4	-1.0892 µg/L	1.14059	-1.0892 ppb	1.14059	104.72%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	27.6	0.4352 µg/L	0.09356	0.4352 ppb	0.09356	21.50%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.0	0.0297 µg/L	0.01548	0.0297 ppb	0.01548	52.06%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-44.4	-0.0112 µg/L	0.03436	-0.0112 ppb	0.03436	307.75%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	11.5	0.6878 µg/L	1.46488	0.6878 ppb	1.46488	212.97%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	5.1	0.0336 µg/L	0.12802	0.0336 ppb	0.12802	381.12%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	15.8	0.2076 µg/L	0.13273	0.2076 ppb	0.13273	63.94%

QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	13.8	0.1104 µg/L	0.16222	0.1104 ppb	0.16222	146.87%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-18.4	-0.0710 µg/L	0.31124	-0.0710 ppb	0.31124	438.14%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	30.5	2.0219 µg/L	0.38185	2.0219 ppb	0.38185	18.89%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-0.3	-0.1094 µg/L	30.85818	-0.1094 ppb	30.85818	>999.9%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	3.6	1.4454 µg/L	4.63666	1.4454 ppb	4.63666	320.78%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	41.7	0.0547 µg/L	0.02065	0.0547 ppb	0.02065	37.73%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	7.5	0.2357 µg/L	0.06349	0.2357 ppb	0.06349	26.93%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	189.7	28.042 µg/L	1.9688	28.042 ppb	1.9688	7.02%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	9.0	0.1108 µg/L	0.10177	0.1108 ppb	0.10177	91.84%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-4.2	-0.9705 µg/L	2.38806	-0.9705 ppb	2.38806	246.05%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-3.0	-0.1825 µg/L	0.35285	-0.1825 ppb	0.35285	193.31%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	3.8	3.0714 µg/L	4.50323	3.0714 ppb	4.50323	146.62%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-1.1	-0.1426 µg/L	1.06762	-0.1426 ppb	1.06762	748.46%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-7.3	-2.83 µg/L	1.489	-2.83 ppb	1.489	52.69%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	2.4	0.2372 µg/L	0.04538	0.2372 ppb	0.04538	19.13%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	75.3	1.1762 µg/L	1.59079	1.1762 ppb	1.59079	135.25%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	9.3	0.6192 µg/L	0.27974	0.6192 ppb	0.27974	45.18%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	49.3	0.1087 µg/L	0.20886	0.1087 ppb	0.20886	192.06%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-76.6	-0.0779 µg/L	0.09203	-0.0779 ppb	0.09203	118.09%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	12.0	1.5734 µg/L	0.78191	1.5734 ppb	0.78191	49.70%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	86.2	5.3601 µg/L	4.98581	5.3601 ppb	4.98581	93.02%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	10.9	0.0629 µg/L	0.87804	0.0629 ppb	0.87804	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	22.6	0.1350 µg/L	0.04249	0.1350 ppb	0.04249	31.49%
QC value within limits for Zn 213.857 Recovery = Not calculated						
All analyte(s) passed QC.						

Daily Performance Report

Sample ID: Sample

Sample Date/Time: Sunday, April 11, 2010 14:25:07

Sample Description:

Method File: C:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\100125\Sample.718

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

Summary

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Be	9.0	1476.9	1476.876	69.851	4.7
Mg	24.0	20563.4	20563.391	243.887	1.2
Co	58.9	60201.8	60201.792	593.479	1.0
Rh	102.9	118302.4	118302.431	575.695	0.5
In	114.9	144990.3	144990.303	1225.130	0.8
Pb	208.0	62594.6	62594.639	440.991	0.7
[> Ba	137.9	132866.7	132866.686	904.406	0.7
[Ba++	69.0	2162.0	0.016	0.001	4.8
[> Ce	139.9	160176.6	160176.628	1412.329	0.9
[CeO	155.9	3192.0	0.020	0.000	1.4
Bkgd	220.0	7.3	7.300	1.789	24.5

Current Optimization File Data

Current Value	Description
0.88	Nebulizer Gas Flow
4.25	Lens Voltage
1000.00	ICP RF Power
-1750.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
50.00	Discriminator Threshold
-2.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	13	5.5	1447.7
Co	59	13	6.0	52914.8
In	115	13	6.8	126833.9

ICPMS #4 TUNING REPORT

File Name: 100411.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.0	602	2085	0.624
Be	9.0	9.0	2054	2075	0.628
Mg	24.0	24.0	5659	2110	0.557
Mg	25.0	25.0	5959	2125	0.584
Mg	26.0	26.0	6140	2110	0.602
Co	58.9	58.9	14170	2165	0.603
Rh	102.9	102.9	24875	2255	0.608
In	114.9	114.8	27768	2285	0.615
Ce	139.9	139.9	33849	2320	0.631
Pb	206.0	206.0	49939	2485	0.628
Pb	207.0	207.0	50101	2400	0.596
Pb	208.0	208.0	50448	2480	0.675
U	238.1	238.0	57686	2500	0.623

Report Date/Time: Sunday, April 11, 2010 14:24:18

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ICPMS#4 - Summary Report

Sample ID: Blank
 Sample Date/Time: Monday, April 12, 2010 06:01:21
 Sample Type:
 Sample Description:
 Number of Replicates: 3
 Batch ID:
 Method File: c:\elandata\Method\6020.mth
 Dataset File: c:\elandata\Dataset\100408\Blank.582

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7		ug/L		30	
Be	9		ug/L		7	
B	11		ug/L		117	
Na	23		ug/L		9670	
Mg	24		ug/L		2000	
Al	27		ug/L		3000	
P	31		ug/L		2628	
K	39		ug/L		379326	
Ca	43		ug/L		208	
> Sc	45		ug/L		617415	
Ti	47		ug/L		185	
V	51		ug/L		15645	
Cr	52		ug/L		-10364	
Cr	53		ug/L		119918	
Mn	55		ug/L		675	
Fe	57		ug/L		4960	
Co	59		ug/L		157	
Ni	60		ug/L		75	
Cu	63		ug/L		1922	
Cu	65		ug/L		887	
Zn	66		ug/L		745	
Zn	67		ug/L		7004	
Zn	68		ug/L		1079	
> Ge	74		ug/L		250958	
As	75		ug/L		-25	
Se	77		ug/L		5521	
Se	82		ug/L		26	
Kr	83		ug/L		56	
Sr	88		ug/L		194	
Y	89		ug/L		20	
Zr	90		ug/L		512	
Mo	98		ug/L		425	
Ag	107		ug/L		168	
Cd	111		ug/L		21	
Cd	114		ug/L		47	
> In	115		ug/L		156932	
Sn	120		ug/L		944	
Sb	121		ug/L		644	
Sb	123		ug/L		530	
Ba	135		ug/L		23	
Ba	137		ug/L		39	
Ho	165		ug/L		8	
> Lu	175		ug/L		192070	
Tl	205		ug/L		2822	
Pb	208		ug/L		3693	
Th	232		ug/L		1597	
U	238		ug/L		614	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9997
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: Blank

Report Date/Time: Monday, April 12, 2010 06:04:06

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QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45				
|	Ti	47				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
|	Zn	66				
|	Zn	67				
|	Zn	68				
>	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115				
|	Sn	120				
|	Sb	121				
|	Sb	123				
|	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175				
|	Tl	205				
|	Pb	208				
|	Th	232				
|	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, April 12, 2010 06:07:29

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\Standard 1.583

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	10.000	ug/L	1.808	6038	0.010
Be	9	10.000	ug/L	4.731	1576	0.002
B	11	20.000	ug/L	3.515	2884	0.004
Na	23	1000.000	ug/L	2.230	1624802	2.559
Mg	24	1000.000	ug/L	7.423	1187945	1.879
Al	27	1000.000	ug/L	13.543	1801610	2.852
P	31	1000.000	ug/L	0.191	99113	0.153
K	39	1000.000	ug/L	10.663	3193909	4.450
Ca	43	1000.000	ug/L	2.390	6247	0.010
> Sc	45		ug/L		630931	630931.391
Ti	47	10.000	ug/L	3.743	3165	0.005
V	51	10.000	ug/L	4.555	55145	0.062
Cr	52	10.000	ug/L	0.783	19700	0.048
Cr	53		ug/L		121952	-0.001
Mn	55	10.000	ug/L	2.922	50740	0.079
Fe	57	1000.000	ug/L	1.629	107903	0.163
Co	59	10.000	ug/L	1.513	39425	0.062
Ni	60	10.000	ug/L	0.570	8386	0.013
Cu	63		ug/L		21223	0.031
Cu	65	10.000	ug/L	1.425	10063	0.015
Zn	66	10.000	ug/L	2.728	5986	0.020
Zn	67		ug/L		7692	0.002
Zn	68		ug/L		4826	0.015
> Ge	74		ug/L		255957	255957.017
As	75	10.000	ug/L	7.706	6522	0.026
Se	77		ug/L		5719	0.000
Se	82	10.000	ug/L	12.690	531	0.002
Kr	83		ug/L		56	-0.000
Sr	88	10.000	ug/L	1.770	87941	0.554
Y	89		ug/L		25	0.000
Zr	90	10.000	ug/L	2.003	47347	0.295
Mo	98	10.000	ug/L	4.041	21084	0.130
Ag	107	10.000	ug/L	1.907	33581	0.211
Cd	111	10.000	ug/L	2.532	7740	0.049
Cd	114		ug/L		18467	0.116
> In	115		ug/L		158521	158520.575
Sn	120	10.000	ug/L	2.621	36156	0.222
Sb	121	10.000	ug/L	15.044	19995	0.122
Sb	123		ug/L		15550	0.095
Ba	135		ug/L		8408	0.043
Ba	137	10.000	ug/L	1.690	14575	0.074
Ho	165		ug/L		10	0.000
> Lu	175		ug/L		195776	195775.690
Tl	205	10.000	ug/L	1.026	55078	0.267
Pb	208	10.000	ug/L	1.543	107373	0.529
Th	232	10.000	ug/L	2.389	100242	0.504
U	238	10.000	ug/L	1.692	104490	0.531

Sample ID: Standard 1

Report Date/Time: Monday, April 12, 2010 06:10:12

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45				
|	Ti	47				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
L	Cu	65				
[	Zn	66				
|	Zn	67				
|	Zn	68				
>	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
L	Kr	83				
[	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115				
|	Sn	120				
|	Sb	121				
L	Sb	123				
[	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175				
|	Tl	205				
|	Pb	208				
|	Th	232				
L	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 1

Report Date/Time: Monday, April 12, 2010 06:10:12

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ICPMS#4 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, April 12, 2010 06:13:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\Standard 2.584

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	100.030	ug/L	1.271	60116	0.098
Be	9	100.013	ug/L	0.912	15439	0.025
B	11	200.032	ug/L	0.639	27381	0.045
Na	23	9998.160	ug/L	3.207	15388364	25.127
Mg	24	10004.265	ug/L	1.990	12022382	19.635
Al	27	9990.466	ug/L	4.809	15931744	26.017
P	31	10001.187	ug/L	0.476	949490	1.547
K	39	9999.193	ug/L	4.316	27391339	44.142
Ca	43	9999.899	ug/L	0.510	58687	0.096
> Sc	45		ug/L		612127	612127.164
Ti	47	100.009	ug/L	1.293	29312	0.048
V	51	100.038	ug/L	1.916	410554	0.645
Cr	52	100.001	ug/L	1.466	283999	0.481
Cr	53		ug/L		126726	0.013
Mn	55	99.999	ug/L	1.269	485890	0.793
Fe	57	9999.103	ug/L	2.187	993647	1.615
Co	59	99.987	ug/L	1.331	376108	0.614
Ni	60	99.990	ug/L	0.397	79864	0.130
Cu	63		ug/L		184894	0.299
Cu	65	99.993	ug/L	1.242	89092	0.144
Zn	66	100.028	ug/L	2.582	53123	0.210
Zn	67		ug/L		13805	0.027
Zn	68		ug/L		38905	0.152
> Ge	74		ug/L		249365	249365.172
As	75	99.965	ug/L	2.294	61595	0.247
Se	77		ug/L		7977	0.010
Se	82	100.131	ug/L	2.007	5678	0.023
Kr	83		ug/L		50	-0.000
Sr	88	100.002	ug/L	0.330	853588	5.549
Y	89		ug/L		105	0.001
Zr	90	100.030	ug/L	1.446	468908	3.046
Mo	98	100.037	ug/L	2.715	208537	1.353
Ag	107	99.991	ug/L	1.626	321331	2.089
Cd	111	100.024	ug/L	1.356	76736	0.499
Cd	114		ug/L		182756	1.188
> In	115		ug/L		153788	153787.743
Sn	120	100.008	ug/L	1.304	345258	2.239
Sb	121	100.201	ug/L	12.132	236266	1.532
Sb	123		ug/L		181940	1.179
Ba	135		ug/L		82247	0.436
Ba	137	100.009	ug/L	2.706	141412	0.749
Ho	165		ug/L		11	0.000
> Lu	175		ug/L		188785	188784.539
Tl	205	100.041	ug/L	0.439	527721	2.781
Pb	208	100.009	ug/L	1.848	1012049	5.342
Th	232	100.071	ug/L	1.196	1025979	5.427
U	238	100.015	ug/L	0.764	1018258	5.391

Sample ID: Standard 2

Report Date/Time: Monday, April 12, 2010 06:16:18

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: Standard 2

Report Date/Time: Monday, April 12, 2010 06:16:18

Page 2

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45					
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74					
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115					
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175					
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 2

Report Date/Time: Monday, April 12, 2010 06:16:18

Page 3

ICPMS#4 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, April 12, 2010 06:19:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 1.585

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.200	ug/L	0.700	31244	0.050
Be	9	51.620	ug/L	1.178	8092	0.013
B	11	101.831	ug/L	1.880	14206	0.023
Na	23	5272.656	ug/L	7.507	8245692	13.251
Mg	24	4836.468	ug/L	2.836	5899082	9.493
Al	27	5174.406	ug/L	8.591	8374342	13.475
P	31	4894.769	ug/L	1.644	472998	0.757
K	39	5099.171	ug/L	4.775	14365313	22.511
Ca	43	4897.324	ug/L	0.760	29279	0.047
> Sc	45		ug/L		621318	621317.973
Ti	47	51.312	ug/L	1.760	15356	0.024
V	51	50.920	ug/L	1.953	219852	0.329
Cr	52	51.681	ug/L	0.893	143929	0.248
Cr	53		ug/L		113493	-0.012
Mn	55	53.234	ug/L	1.099	262853	0.422
Fe	57	4968.139	ug/L	1.668	503647	0.803
Co	59	50.488	ug/L	1.856	192839	0.310
Ni	60	52.446	ug/L	2.925	42548	0.068
Cu	63		ug/L		98862	0.156
Cu	65	51.748	ug/L	1.196	47229	0.075
Zn	66	53.277	ug/L	1.788	28645	0.112
Zn	67		ug/L		10006	0.012
Zn	68		ug/L		21153	0.081
> Ge	74		ug/L		249385	249384.584
As	75	52.793	ug/L	2.355	32519	0.131
Se	77		ug/L		6241	0.003
Se	82	54.633	ug/L	1.420	3110	0.012
Kr	83		ug/L		49	-0.000
Sr	88	51.785	ug/L	1.868	449418	2.874
Y	89		ug/L		40	0.000
Zr	90	48.844	ug/L	1.403	233060	1.487
Mo	98	49.434	ug/L	2.002	104987	0.669
Ag	107	52.136	ug/L	1.334	170442	1.089
Cd	111	51.766	ug/L	1.316	40388	0.258
Cd	114		ug/L		94709	0.605
> In	115		ug/L		156356	156355.696
Sn	120	49.993	ug/L	2.087	175938	1.119
Sb	121	62.556	ug/L	1.574	150181	0.956
Sb	123		ug/L		116420	0.741
Ba	135		ug/L		41676	0.220
Ba	137	51.659	ug/L	3.683	73143	0.387
Ho	165		ug/L		10	0.000
> Lu	175		ug/L		189022	189021.731
Tl	205	49.513	ug/L	1.635	262935	1.376
Pb	208	52.011	ug/L	1.746	528728	2.778
Th	232	52.156	ug/L	0.249	536156	2.828
U	238	53.508	ug/L	2.118	545706	2.884

Sample ID: QC Std 1

Report Date/Time: Monday, April 12, 2010 06:22:24

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: QC Std 1

Report Date/Time: Monday, April 12, 2010 06:22:24

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QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	102.400				
Be	9	103.240				
B	11	101.831				
Na	23	105.453				
Mg	24	96.729				
Al	27	102.463				
P	31	97.895				
K	39	101.983				
Ca	43	97.946				
> Sc	45		100.6			
Ti	47	102.624				
V	51	101.841				
Cr	52	103.362				
Cr	53					
Mn	55	106.468				
Fe	57	99.363				
Co	59	100.976				
Ni	60	104.891				
Cu	63					
Cu	65	103.495				
Zn	66	106.555				
Zn	67					
Zn	68					
> Ge	74		99.4			
As	75	105.586				
Se	77					
Se	82	109.266				
Kr	83					
Sr	88	103.571				
Y	89					
Zr	90	97.689				
Mo	98	98.868				
Ag	107	104.273				
Cd	111	103.532				
Cd	114					
> In	115		99.6			
Sn	120	99.986				
Sb	121	125.113				
Sb	123					
Ba	135					
Ba	137	103.317				
Ho	165					
> Lu	175		98.4			
Tl	205	99.026				
Pb	208	104.023				
Th	232	104.311				
U	238	107.017				

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
QC Std 1	Sb	121ICV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, April 12, 2010 06:25:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 2.586

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.018	ug/L	44.699	42	0.000
Be	9	0.004	ug/L	433.715	8	0.000
B	11	1.661	ug/L	17.900	348	0.000
Na	23	2.086	ug/L	122.087	13006	0.005
Mg	24	0.260	ug/L	179.412	2334	0.001
Al	27	1.841	ug/L	58.669	6001	0.005
P	31	4.312	ug/L	65.916	3063	0.001
K	39	-0.568	ug/L	3595.395	380747	-0.003
Ca	43	1.198	ug/L	180.957	217	0.000
> Sc	45		ug/L		622100	622100.311
Ti	47	0.012	ug/L	285.875	190	0.000
V	51	0.099	ug/L	439.622	16156	0.001
Cr	52	0.068	ug/L	26.192	-10239	0.000
Cr	53		ug/L		117446	-0.005
Mn	55	0.011	ug/L	46.853	737	0.000
Fe	57	3.684	ug/L	28.673	5368	0.001
Co	59	0.009	ug/L	29.148	192	0.000
Ni	60	0.001	ug/L	2678.491	76	0.000
Cu	63		ug/L		1872	-0.000
Cu	65	-0.007	ug/L	374.551	887	-0.000
Zn	66	0.380	ug/L	72.403	942	0.001
Zn	67		ug/L		6916	-0.000
Zn	68		ug/L		1097	0.000
> Ge	74		ug/L		250096	250096.384
As	75	0.362	ug/L	16.623	199	0.001
Se	77		ug/L		5304	-0.001
Se	82	1.179	ug/L	6.675	93	0.000
Kr	83		ug/L		59	0.000
Sr	88	0.010	ug/L	39.486	276	0.001
Y	89		ug/L		17	-0.000
Zr	90	0.253	ug/L	19.630	1698	0.008
Mo	98	0.497	ug/L	6.686	1462	0.007
Ag	107	0.069	ug/L	7.533	390	0.001
Cd	111	0.015	ug/L	81.645	32	0.000
Cd	114		ug/L		76	0.000
> In	115		ug/L		154995	154995.109
Sn	120	0.143	ug/L	13.247	1429	0.003
Sb	121	2.440	ug/L	16.936	6417	0.037
Sb	123		ug/L		4926	0.028
Ba	135		ug/L		38	0.000
Ba	137	0.007	ug/L	57.596	48	0.000
Ho	165		ug/L		10	0.000
> Lu	175		ug/L		189053	189052.748
Tl	205	0.362	ug/L	35.232	4669	0.010
Pb	208	0.016	ug/L	67.713	3792	0.001
Th	232	0.411	ug/L	25.168	5768	0.022
U	238	0.032	ug/L	22.952	925	0.002

Sample ID: QC Std 2

Report Date/Time: Monday, April 12, 2010 06:28:35

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7					
|	Be	9					
|	B	11					
|	Na	23					
|	Mg	24					
|	Al	27					
|	P	31					
|	K	39					
|	Ca	43					
>	Sc	45		100.8			
|	Ti	47					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Fe	57					
|	Co	59					
|	Ni	60					
|	Cu	63					
|	Cu	65					
[	Zn	66					
|	Zn	67					
|	Zn	68					
>	Ge	74		99.7			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
[	Sr	88					
|	Y	89					
|	Zr	90					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115		98.8			
|	Sn	120					
|	Sb	121					
|	Sb	123					
[	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175		98.4			
|	Tl	205					
|	Pb	208					
|	Th	232					
|	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 2

Report Date/Time: Monday, April 12, 2010 06:28:35

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ICPMS#4 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, April 12, 2010 06:31:59

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 3.587

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	12.345	ug/L	1.820	7255	0.012
Be	9	0.587	ug/L	13.032	95	0.000
B	11	17.409	ug/L	2.872	2425	0.004
Na	23	324.116	ug/L	6.406	495473	0.815
Mg	24	23.399	ug/L	25.069	29365	0.046
Al	27	38.804	ug/L	13.821	63141	0.101
P	31	53.862	ug/L	3.567	7510	0.008
K	39	352.853	ug/L	2.592	1295911	1.558
Ca	43	239.682	ug/L	2.945	1567	0.002
> Sc	45		ug/L		596610	596610.327
Ti	47	9.768	ug/L	1.170	2952	0.005
V	51	11.746	ug/L	8.732	60306	0.076
Cr	52	12.509	ug/L	1.960	25862	0.060
Cr	53		ug/L		99571	-0.027
Mn	55	6.325	ug/L	0.514	30563	0.050
Fe	57	125.452	ug/L	3.235	16882	0.020
Co	59	1.178	ug/L	2.983	4467	0.007
Ni	60	2.440	ug/L	3.751	1970	0.003
Cu	63		ug/L		3866	0.003
Cu	65	1.231	ug/L	2.377	1915	0.002
Zn	66	14.087	ug/L	2.255	8009	0.030
Zn	67		ug/L		6590	-0.001
Zn	68		ug/L		6167	0.021
> Ge	74		ug/L		246013	246013.077
As	75	6.168	ug/L	8.389	3726	0.015
Se	77		ug/L		4138	-0.005
Se	82	5.149	ug/L	13.903	312	0.001
Kr	83		ug/L		47	-0.000
Sr	88	12.116	ug/L	1.808	103173	0.672
Y	89		ug/L		22	0.000
Zr	90	2.122	ug/L	0.604	10399	0.065
Mo	98	0.659	ug/L	3.825	1780	0.009
Ag	107	1.081	ug/L	0.922	3625	0.023
Cd	111	1.202	ug/L	4.018	938	0.006
Cd	114		ug/L		2228	0.014
> In	115		ug/L		153205	153204.539
Sn	120	5.572	ug/L	1.578	20038	0.125
Sb	121	2.708	ug/L	9.556	6976	0.041
Sb	123		ug/L		5411	0.032
Ba	135		ug/L		1933	0.010
Ba	137	2.384	ug/L	2.941	3337	0.018
Ho	165		ug/L		11	0.000
> Lu	175		ug/L		184805	184805.231
Tl	205	1.043	ug/L	2.483	8074	0.029
Pb	208	2.302	ug/L	2.204	26274	0.123
Th	232	1.147	ug/L	4.304	13027	0.062
U	238	0.289	ug/L	5.367	3467	0.016

Sample ID: QC Std 3

Report Date/Time: Monday, April 12, 2010 06:34:43

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7	123.445				
|	Be	9	117.443				
|	B	11	116.063				
|	Na	23	129.646				
|	Mg	24	155.993				
|	Al	27	129.347				
|	P	31	107.724				
|	K	39	117.618				
|	Ca	43	119.841				
>	Sc	45		96.6			
|	Ti	47	97.676				
|	V	51	117.457				
|	Cr	52	125.086				
|	Cr	53					
|	Mn	55	126.493				
|	Fe	57	125.452				
|	Co	59	117.764				
|	Ni	60	122.015				
|	Cu	63					
|	Cu	65	123.123				
|	Zn	66	140.874				
|	Zn	67					
|	Zn	68					
>	Ge	74		98.0			
|	As	75	123.359				
|	Se	77					
|	Se	82	102.984				
|	Kr	83					
|	Sr	88	121.158				
|	Y	89					
|	Zr	90	106.085				
|	Mo	98	131.703				
|	Ag	107	108.141				
|	Cd	111	120.165				
|	Cd	114					
>	In	115		97.6			
|	Sn	120	111.440				
|	Sb	121	90.257				
|	Sb	123					
|	Ba	135					
|	Ba	137	119.224				
|	Ho	165					
>	Lu	175		96.2			
|	Tl	205	104.345				
|	Pb	208	115.084				
|	Th	232	114.687				
|	U	238	144.404				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 3	Mg	24CRDL is out of limits
QC Std 3	Zn	66CRDL is out of limits
QC Std 3	Mo	98CRDL is out of limits
QC Std 3	U	238CRDL is out of limits

Sample ID: QC Std 3

Report Date/Time: Monday, April 12, 2010 06:34:43

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QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, April 12, 2010 06:38:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 4.588

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.080	ug/L	14.278	79	0.000
Be	9	0.088	ug/L	33.316	21	0.000
B	11	1.021	ug/L	12.513	257	0.000
Na	23	104069.246	ug/L	4.010	161423395	261.543
Mg	24	84674.980	ug/L	4.403	102499885	166.191
Al	27	90861.115	ug/L	4.682	145921913	236.615
P	31	87903.756	ug/L	1.492	8389649	13.596
K	39	95159.225	ug/L	3.647	259565548	420.090
Ca	43	95096.283	ug/L	1.415	560666	0.909
Sc	45		ug/L		616936	616935.698
Ti	47	1640.600	ug/L	2.120	481822	0.781
V	51	-0.734	ug/L	94.347	12687	-0.005
Cr	52	2.261	ug/L	4.059	-3648	0.011
Cr	53		ug/L		110044	-0.016
Mn	55	5.989	ug/L	2.624	29958	0.047
Fe	57	95795.703	ug/L	1.718	9551409	15.476
Co	59	0.226	ug/L	2.908	1012	0.001
Ni	60	3.291	ug/L	2.064	2722	0.004
Cu	63		ug/L		7283	0.009
Cu	65	3.444	ug/L	2.642	3948	0.005
Zn	66	5.685	ug/L	5.861	3699	0.012
Zn	67		ug/L		7791	0.003
Zn	68		ug/L		2038	0.004
Ge	74		ug/L		248132	248131.877
As	75	0.949	ug/L	139.161	559	0.002
Se	77		ug/L		6254	0.003
Se	82	0.664	ug/L	59.536	63	0.000
Kr	83		ug/L		141	0.000
Sr	88	2.942	ug/L	2.269	25070	0.163
Y	89		ug/L		242	0.001
Zr	90	0.901	ug/L	40.037	4678	0.027
Mo	98	1989.852	ug/L	1.307	4103725	26.922
Ag	107	0.103	ug/L	3.683	492	0.002
Cd	111	0.189	ug/L	52.986	163	0.001
Cd	114		ug/L		4537	0.029
In	115		ug/L		152420	152419.817
Sn	120	1.048	ug/L	4.768	4493	0.023
Sb	121	1.615	ug/L	26.003	4387	0.025
Sb	123		ug/L		3330	0.018
Ba	135		ug/L		634	0.003
Ba	137	0.705	ug/L	2.953	1052	0.005
Ho	165		ug/L		3880	0.020
Lu	175		ug/L		191964	191964.203
Tl	205	-0.142	ug/L	6.214	2061	-0.004
Pb	208	0.209	ug/L	7.357	5833	0.011
Th	232	0.415	ug/L	39.786	5906	0.023
U	238	-0.041	ug/L	11.180	190	-0.002

Sample ID: QC Std 4

Report Date/Time: Monday, April 12, 2010 06:40:51

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7					
|	Be	9					
|	B	11					
|	Na	23	104.069				
|	Mg	24	84.675				
|	Al	27	90.861				
|	P	31	87.904				
|	K	39	95.159				
|	Ca	43	95.096				
>	Sc	45		99.9			
|	Ti	47	82.030				
|	V	51					
|	Cr	52	68.508				
|	Cr	53					
|	Mn	55	103.253				
|	Fe	57	95.796				
|	Co	59	96.020				
|	Ni	60	99.428				
|	Cu	63					
|	Cu	65	103.104				
[	Zn	66	151.189				
|	Zn	67					
|	Zn	68					
>	Ge	74		98.9			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
[	Sr	88	99.377				
|	Y	89					
|	Zr	90					
|	Mo	98	99.493				
|	Ag	107					
|	Cd	111	42.519				
|	Cd	114					
>	In	115		97.1			
|	Sn	120					
|	Sb	121					
|	Sb	123					
[	Ba	135					
|	Ba	137	88.344				
|	Ho	165					
>	Lu	175		99.9			
|	Tl	205					
|	Pb	208	110.521				
|	Th	232					
|	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 4

Report Date/Time: Monday, April 12, 2010 06:40:51

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ICPMS#4 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, April 12, 2010 06:44:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 5.589

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	18.223	ug/L	1.950	10978	0.018
Be	9	18.438	ug/L	2.073	2853	0.005
B	11	17.699	ug/L	1.617	2529	0.004
Na	23	102160.020	ug/L	4.252	157187795	256.745
Mg	24	87552.328	ug/L	0.976	105233215	171.839
Al	27	97251.930	ug/L	5.206	155030646	253.257
P	31	90448.582	ug/L	0.896	8569311	13.990
K	39	100859.998	ug/L	5.766	272981714	445.256
Ca	43	97402.717	ug/L	0.238	570041	0.931
Sc	45		ug/L		612346	612346.019
Ti	47	1659.273	ug/L	0.965	483708	0.790
V	51	20.166	ug/L	4.754	95210	0.130
Cr	52	22.088	ug/L	2.084	54743	0.106
Cr	53		ug/L		117289	-0.003
Mn	55	25.846	ug/L	1.852	126135	0.205
Fe	57	97524.949	ug/L	2.223	9654153	15.756
Co	59	19.551	ug/L	0.883	73702	0.120
Ni	60	22.374	ug/L	1.431	17936	0.029
Cu	63		ug/L		42360	0.066
Cu	65	22.342	ug/L	0.792	20596	0.032
Zn	66	22.971	ug/L	1.732	12851	0.048
Zn	67		ug/L		9426	0.010
Zn	68		ug/L		8831	0.031
Ge	74		ug/L		250905	250905.353
As	75	20.737	ug/L	2.212	12836	0.051
Se	77		ug/L		7580	0.008
Se	82	20.736	ug/L	2.299	1204	0.005
Kr	83		ug/L		144	0.000
Sr	88	23.402	ug/L	2.057	202801	1.299
Y	89		ug/L		263	0.002
Zr	90	20.398	ug/L	1.562	97423	0.621
Mo	98	1977.794	ug/L	1.423	4175563	26.759
Ag	107	19.413	ug/L	0.946	63438	0.406
Cd	111	19.002	ug/L	0.865	14809	0.095
Cd	114		ug/L		39582	0.253
In	115		ug/L		156025	156024.521
Sn	120	19.947	ug/L	1.348	70622	0.447
Sb	121	22.022	ug/L	4.180	53175	0.337
Sb	123		ug/L		40666	0.257
Ba	135		ug/L		16942	0.088
Ba	137	20.225	ug/L	0.414	29143	0.151
Ho	165		ug/L		3910	0.020
Lu	175		ug/L		192147	192146.614
Tl	205	17.494	ug/L	3.081	96233	0.486
Pb	208	18.844	ug/L	1.244	197100	1.007
Th	232	19.667	ug/L	1.158	206505	1.066
U	238	19.902	ug/L	1.513	206711	1.073

Sample ID: QC Std 5

Report Date/Time: Monday, April 12, 2010 06:46:59

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7	91.114			
|	Be	9	92.192			
|	B	11	88.496			
|	Na	23	102.160			
|	Mg	24	87.552			
|	Al	27	97.252			
|	P	31	90.449			
|	K	39	100.860			
|	Ca	43	97.403			
>	Sc	45		99.2		
|	Ti	47	82.964			
|	V	51	100.831			
|	Cr	52	94.799			
|	Cr	53				
|	Mn	55	100.178			
|	Fe	57	97.525			
|	Co	59	96.619			
|	Ni	60	95.985			
|	Cu	63				
|	Cu	65	95.722			
|	Zn	66	96.677			
|	Zn	67				
|	Zn	68				
>	Ge	74		100.0		
|	As	75	103.683			
|	Se	77				
|	Se	82	103.679			
|	Kr	83				
|	Sr	88	101.927			
|	Y	89				
|	Zr	90	101.988			
|	Mo	98	98.890			
|	Ag	107	97.067			
|	Cd	111	92.949			
|	Cd	114				
>	In	115		99.4		
|	Sn	120	99.733			
|	Sb	121	110.110			
|	Sb	123				
|	Ba	135				
|	Ba	137	97.243			
|	Ho	165				
>	Lu	175		100.0		
|	Tl	205	87.470			
|	Pb	208	93.337			
|	Th	232	98.335			
|	U	238	99.509			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 5

Report Date/Time: Monday, April 12, 2010 06:46:59

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ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 12, 2010 06:50:24

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 6.590

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	48.646	ug/L	1.230	30425	0.048
Be	9	49.650	ug/L	2.044	7976	0.013
B	11	94.735	ug/L	0.947	13552	0.021
Na	23	5529.004	ug/L	4.429	8858481	13.895
Mg	24	4788.104	ug/L	3.530	5987168	9.398
Al	27	5034.972	ug/L	5.389	8351570	13.112
P	31	4893.337	ug/L	1.610	484643	0.757
K	39	4800.594	ug/L	3.388	13882005	21.193
Ca	43	4908.737	ug/L	1.055	30078	0.047
> Sc	45		ug/L		636770	636770.126
Ti	47	53.193	ug/L	1.872	16307	0.025
V	51	50.516	ug/L	4.053	223591	0.326
Cr	52	51.866	ug/L	3.694	148032	0.249
Cr	53		ug/L		116425	-0.011
Mn	55	53.234	ug/L	1.254	269378	0.422
Fe	57	5014.865	ug/L	1.615	520945	0.810
Co	59	50.687	ug/L	1.186	198412	0.311
Ni	60	53.462	ug/L	0.990	44453	0.070
Cu	63		ug/L		105713	0.163
Cu	65	53.923	ug/L	1.181	50397	0.078
Zn	66	54.559	ug/L	1.165	30526	0.115
Zn	67		ug/L		10454	0.012
Zn	68		ug/L		22295	0.082
> Ge	74		ug/L		259668	259668.125
As	75	52.178	ug/L	1.453	33463	0.129
Se	77		ug/L		6631	0.004
Se	82	51.177	ug/L	4.968	3035	0.012
Kr	83		ug/L		53	-0.000
Sr	88	52.279	ug/L	0.592	466227	2.901
Y	89		ug/L		44	0.000
Zr	90	49.018	ug/L	2.238	240306	1.493
Mo	98	51.377	ug/L	2.511	112096	0.695
Ag	107	52.650	ug/L	1.804	176841	1.100
Cd	111	52.170	ug/L	0.590	41824	0.260
Cd	114		ug/L		96981	0.603
> In	115		ug/L		160649	160649.384
Sn	120	50.228	ug/L	1.395	181632	1.125
Sb	121	57.768	ug/L	4.003	142533	0.883
Sb	123		ug/L		110303	0.683
Ba	135		ug/L		43487	0.225
Ba	137	52.170	ug/L	0.780	75588	0.391
Ho	165		ug/L		14	0.000
> Lu	175		ug/L		193356	193356.372
Tl	205	49.905	ug/L	0.787	271043	1.387
Pb	208	51.188	ug/L	0.582	532438	2.734
Th	232	51.334	ug/L	0.813	539850	2.784
U	238	53.116	ug/L	2.432	554141	2.863

Sample ID: QC Std 6

Report Date/Time: Monday, April 12, 2010 06:53:08

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	97.292				
Be	9	99.300				
B	11	94.735				
Na	23	110.580				
Mg	24	95.762				
Al	27	99.702				
P	31	97.867				
K	39	96.012				
Ca	43	98.175				
> Sc	45		103.1			
Ti	47	106.385				
V	51	101.032				
Cr	52	103.732				
Cr	53					
Mn	55	106.468				
Fe	57	100.297				
Co	59	101.373				
Ni	60	106.923				
Cu	63					
Cu	65	107.847				
Zn	66	109.119				
Zn	67					
Zn	68					
> Ge	74		103.5			
As	75	104.356				
Se	77					
Se	82	102.355				
Kr	83					
Sr	88	104.559				
Y	89					
Zr	90	98.036				
Mo	98	102.754				
Ag	107	105.299				
Cd	111	104.340				
Cd	114					
> In	115		102.4			
Sn	120	100.456				
Sb	121	115.535				
Sb	123					
Ba	135					
Ba	137	104.339				
Ho	165					
> Lu	175		100.7			
Tl	205	99.809				
Pb	208	102.375				
Th	232	102.668				
U	238	106.232				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 6	Na	23CCV is out of limits (+/- 10%)
QC Std 6	Sb	121CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

Sample ID: QC Std 6
Report Date/Time: Monday, April 12, 2010 06:53:08
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ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 12, 2010 06:56:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 7.591

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.046	ug/L	48.446	59	0.000
Be	9	0.001	ug/L	1806.137	8	0.000
B	11	0.960	ug/L	24.592	254	0.000
Na	23	10.858	ug/L	52.487	27027	0.027
Mg	24	4.023	ug/L	61.720	7002	0.008
Al	27	4.025	ug/L	9.815	9670	0.010
P	31	8.531	ug/L	25.718	3516	0.001
K	39	-6.974	ug/L	150.928	368035	-0.031
Ca	43	14.635	ug/L	17.755	301	0.000
Sc	45		ug/L		630531	630531.158
Ti	47	0.646	ug/L	3.066	382	0.000
V	51	-0.353	ug/L	301.293	14537	-0.002
Cr	52	0.200	ug/L	36.203	-9978	0.001
Cr	53		ug/L		118129	-0.007
Mn	55	0.024	ug/L	21.723	807	0.000
Fe	57	11.945	ug/L	13.579	6283	0.002
Co	59	0.007	ug/L	62.802	188	0.000
Ni	60	0.017	ug/L	44.306	91	0.000
Cu	63		ug/L		1995	0.000
Cu	65	0.114	ug/L	6.011	1009	0.000
Zn	66	-0.007	ug/L	525.806	764	-0.000
Zn	67		ug/L		6862	-0.001
Zn	68		ug/L		1025	-0.000
Ge	74		ug/L		258343	258342.567
As	75	0.753	ug/L	108.159	455	0.002
Se	77		ug/L		5817	0.001
Se	82	0.962	ug/L	15.878	83	0.000
Kr	83		ug/L		54	-0.000
Sr	88	0.008	ug/L	11.798	271	0.000
Y	89		ug/L		17	-0.000
Zr	90	0.146	ug/L	27.333	1237	0.004
Mo	98	0.659	ug/L	13.072	1866	0.009
Ag	107	0.052	ug/L	14.171	346	0.001
Cd	111	0.014	ug/L	76.387	32	0.000
Cd	114		ug/L		66	0.000
In	115		ug/L		160633	160632.617
Sn	120	0.106	ug/L	22.180	1346	0.002
Sb	121	1.322	ug/L	20.483	3899	0.020
Sb	123		ug/L		2938	0.015
Ba	135		ug/L		31	0.000
Ba	137	0.006	ug/L	63.226	47	0.000
Ho	165		ug/L		6	-0.000
Lu	175		ug/L		192082	192082.087
Tl	205	0.141	ug/L	46.136	3570	0.004
Pb	208	0.049	ug/L	15.067	4195	0.003
Th	232	0.208	ug/L	32.234	3760	0.011
U	238	0.022	ug/L	37.138	839	0.001

Sample ID: QC Std 7

Report Date/Time: Monday, April 12, 2010 06:59:19

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		102.1			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		102.9			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		102.4			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		100.0			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 7	Mo	98CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Monday, April 12, 2010 07:02:43

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 10.592

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	930.940	ug/L	0.733	556685	0.913
Be	9	942.409	ug/L	1.266	144776	0.238
B	11	0.370	ug/L	10.067	165	0.000
Na	23	54578.136	ug/L	4.579	83613867	137.164
Mg	24	46698.700	ug/L	3.792	55862437	91.655
Al	27	49472.661	ug/L	7.127	78517284	128.834
P	31	22784.464	ug/L	1.414	2150335	3.524
K	39	47502.766	ug/L	5.999	128198921	209.706
Ca	43	48072.850	ug/L	2.026	280116	0.459
Sc	45		ug/L		609402	609402.212
Ti	47	37.178	ug/L	1.087	10964	0.018
V	51	921.087	ug/L	0.975	3636902	5.943
Cr	52	938.804	ug/L	1.191	2740140	4.513
Cr	53		ug/L		445334	0.537
Mn	55	933.582	ug/L	1.486	4510803	7.401
Fe	57	47525.866	ug/L	0.196	4683871	7.678
Co	59	914.520	ug/L	0.421	3423627	5.618
Ni	60	927.461	ug/L	1.145	736901	1.209
Cu	63		ug/L		1660410	2.722
Cu	65	931.901	ug/L	1.862	819411	1.343
Zn	66	2216.025	ug/L	0.989	1140648	4.654
Zn	67		ug/L		187198	0.736
Zn	68		ug/L		823123	3.357
Ge	74		ug/L		244908	244907.585
As	75	942.326	ug/L	1.156	570478	2.329
Se	77		ug/L		25889	0.084
Se	82	507.730	ug/L	1.302	28172	0.115
Kr	83		ug/L		83	0.000
Sr	88	952.442	ug/L	1.415	8009362	52.850
Y	89		ug/L		247	0.002
Zr	90	479.887	ug/L	1.889	2214979	14.613
Mo	98	938.695	ug/L	2.543	1924983	12.700
Ag	107	244.259	ug/L	1.389	773190	5.102
Cd	111	947.243	ug/L	0.808	715933	4.725
Cd	114		ug/L		1672286	11.036
In	115		ug/L		151525	151525.231
Sn	120	949.230	ug/L	1.860	3221287	21.254
Sb	121	316.675	ug/L	1.802	734262	4.842
Sb	123		ug/L		568970	3.752
Ba	135		ug/L		796320	4.077
Ba	137	936.750	ug/L	1.725	1370324	7.016
Ho	165		ug/L		93	0.000
Lu	175		ug/L		195318	195318.490
Tl	205	447.475	ug/L	1.042	2432196	12.438
Pb	208	4568.522	ug/L	1.732	47668111	244.049
Th	232	2356.147	ug/L	3.130	24957497	127.766
U	238	4827.921	ug/L	0.976	50825439	260.228

Sample ID: QC Std 10

Report Date/Time: Monday, April 12, 2010 07:05:25

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7	93.094			
|	Be	9	94.241			
|	B	11				
|	Na	23	109.156			
|	Mg	24	93.397			
|	Al	27	98.945			
|	P	31	91.138			
|	K	39	95.006			
|	Ca	43	96.146			
>	Sc	45		98.7		
|	Ti	47				
|	V	51	92.109			
|	Cr	52	93.880			
|	Cr	53				
|	Mn	55	93.358			
|	Fe	57	95.052			
|	Co	59	91.452			
|	Ni	60	92.746			
|	Cu	63				
|	Cu	65	93.190			
[	Zn	66	88.641			
|	Zn	67				
|	Zn	68				
>	Ge	74		97.6		
|	As	75	94.233			
|	Se	77				
|	Se	82	101.546			
|	Kr	83				
[	Sr	88	95.244			
|	Y	89				
|	Zr	90	95.977			
|	Mo	98	93.869			
|	Ag	107	97.704			
|	Cd	111	94.724			
|	Cd	114				
>	In	115		96.6		
|	Sn	120	94.923			
|	Sb	121	126.670			
|	Sb	123				
[	Ba	135				
|	Ba	137	93.675			
|	Ho	165				
>	Lu	175		101.7		
|	Tl	205	89.495			
|	Pb	208	91.370			
|	Th	232	94.246			
|	U	238	96.558			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 10	Zn	66LRS is out of limits (+/- 10%)
QC Std 10	Sb	121LRS is out of limits (+/- 10%)
QC Std 10	Tl	205LRS is out of limits (+/- 10%)

QC Action

Sample ID: QC Std 10
 Report Date/Time: Monday, April 12, 2010 07:05:25
 Page 3

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Monday, April 12, 2010 07:08:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 11.593

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	49.596	ug/L	1.430	31251	0.049
Be	9	50.064	ug/L	0.721	8103	0.013
B	11	95.902	ug/L	2.789	13820	0.021
Na	23	5717.990	ug/L	5.366	9228606	14.370
Mg	24	4993.112	ug/L	4.272	6288795	9.800
Al	27	5142.212	ug/L	3.750	8593521	13.391
P	31	4893.049	ug/L	1.333	488233	0.757
K	39	4982.701	ug/L	0.914	14505065	21.997
Ca	43	4964.199	ug/L	1.056	30641	0.047
> Sc	45		ug/L		641506	641505.504
Ti	47	51.725	ug/L	1.898	15982	0.025
V	51	52.401	ug/L	1.761	233132	0.338
Cr	52	53.146	ug/L	1.902	153130	0.255
Cr	53		ug/L		115723	-0.014
Mn	55	53.869	ug/L	0.602	274638	0.427
Fe	57	5065.151	ug/L	1.152	530097	0.818
Co	59	52.108	ug/L	1.111	205508	0.320
Ni	60	53.718	ug/L	0.297	45002	0.070
Cu	63		ug/L		105918	0.162
Cu	65	54.237	ug/L	2.537	51067	0.078
Zn	66	54.411	ug/L	1.126	31102	0.114
Zn	67		ug/L		10701	0.012
Zn	68		ug/L		22830	0.082
> Ge	74		ug/L		265252	265251.540
As	75	53.432	ug/L	1.040	35009	0.132
Se	77		ug/L		6660	0.003
Se	82	56.856	ug/L	0.509	3441	0.013
Kr	83		ug/L		57	-0.000
Sr	88	51.671	ug/L	1.594	475084	2.867
Y	89		ug/L		46	0.000
Zr	90	51.366	ug/L	2.452	259587	1.564
Mo	98	50.862	ug/L	2.170	114417	0.688
Ag	107	51.705	ug/L	1.718	179056	1.080
Cd	111	51.722	ug/L	0.213	42753	0.258
Cd	114		ug/L		100209	0.605
> In	115		ug/L		165638	165638.340
Sn	120	50.289	ug/L	1.586	187501	1.126
Sb	121	57.966	ug/L	1.828	147490	0.886
Sb	123		ug/L		113250	0.680
Ba	135		ug/L		44378	0.224
Ba	137	51.692	ug/L	2.399	76605	0.387
Ho	165		ug/L		12	0.000
> Lu	175		ug/L		197814	197813.627
Tl	205	50.846	ug/L	2.800	282359	1.413
Pb	208	52.453	ug/L	1.133	557980	2.802
Th	232	54.278	ug/L	1.270	583796	2.943
U	238	53.973	ug/L	1.240	575997	2.909

Sample ID: QC Std 11

Report Date/Time: Monday, April 12, 2010 07:11:32

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7	99.192				
|	Be	9	100.128				
|	B	11	95.902				
|	Na	23	114.360				
|	Mg	24	99.862				
|	Al	27	101.826				
|	P	31	97.861				
|	K	39	99.654				
|	Ca	43	99.284				
>	Sc	45		103.9			
|	Ti	47	103.451				
|	V	51	104.802				
|	Cr	52	106.293				
|	Cr	53					
|	Mn	55	107.738				
|	Fe	57	101.303				
|	Co	59	104.217				
|	Ni	60	107.436				
|	Cu	63					
|	Cu	65	108.473				
|	Zn	66	108.822				
|	Zn	67					
|	Zn	68					
>	Ge	74		105.7			
|	As	75	106.864				
|	Se	77					
|	Se	82	113.712				
|	Kr	83					
|	Sr	88	103.341				
|	Y	89					
|	Zr	90	102.732				
|	Mo	98	101.725				
|	Ag	107	103.410				
|	Cd	111	103.443				
|	Cd	114					
>	In	115		105.5			
|	Sn	120	100.578				
|	Sb	121	115.931				
|	Sb	123					
|	Ba	135					
|	Ba	137	103.384				
|	Ho	165					
>	Lu	175		103.0			
|	Tl	205	101.692				
|	Pb	208	104.906				
|	Th	232	108.556				
|	U	238	107.946				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 11	Na	23	23CCV is out of limits (+/- 10%)
QC Std 11	Se	82	82CCV is out of limits (+/- 10%)
QC Std 11	Sb	121	121CCV is out of limits (+/- 10%)

QC Action

Sample ID: QC Std 11
 Report Date/Time: Monday, April 12, 2010 07:11:32
 Page 3

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Monday, April 12, 2010 07:14:58

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 12.594

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.114	ug/L	22.217	104	0.000
Be	9	0.029	ug/L	23.543	12	0.000
B	11	0.973	ug/L	21.963	262	0.000
Na	23	3.830	ug/L	79.350	16343	0.010
Mg	24	4.398	ug/L	19.476	7669	0.009
Al	27	4.492	ug/L	54.318	10671	0.012
P	31	1.852	ug/L	49.549	2932	0.000
K	39	-11.741	ug/L	60.560	363239	-0.052
Ca	43	11.433	ug/L	18.353	288	0.000
> Sc	45		ug/L		645508	645508.266
Ti	47	0.129	ug/L	68.147	233	0.000
V	51	-0.533	ug/L	178.342	14116	-0.003
Cr	52	0.404	ug/L	27.471	-9580	0.002
Cr	53		ug/L		117407	-0.012
Mn	55	0.038	ug/L	12.804	902	0.000
Fe	57	4.777	ug/L	35.688	5682	0.001
Co	59	0.034	ug/L	20.298	298	0.000
Ni	60	0.037	ug/L	15.983	109	0.000
Cu	63		ug/L		2090	0.000
Cu	65	0.069	ug/L	22.515	992	0.000
Zn	66	0.193	ug/L	40.741	898	0.000
Zn	67		ug/L		6975	-0.002
Zn	68		ug/L		1163	0.000
> Ge	74		ug/L		266047	266047.138
As	75	1.505	ug/L	44.940	963	0.004
Se	77		ug/L		5750	-0.000
Se	82	1.735	ug/L	6.619	132	0.000
Kr	83		ug/L		50	-0.000
Sr	88	0.039	ug/L	11.243	548	0.002
Y	89		ug/L		20	-0.000
Zr	90	0.393	ug/L	15.600	2473	0.012
Mo	98	0.743	ug/L	5.801	2075	0.010
Ag	107	0.097	ug/L	30.165	503	0.002
Cd	111	0.066	ug/L	17.908	75	0.000
Cd	114		ug/L		167	0.001
> In	115		ug/L		162586	162585.856
Sn	120	0.372	ug/L	13.620	2331	0.008
Sb	121	1.141	ug/L	17.785	3498	0.017
Sb	123		ug/L		2666	0.013
Ba	135		ug/L		54	0.000
Ba	137	0.042	ug/L	40.245	100	0.000
Ho	165		ug/L		8	0.000
> Lu	175		ug/L		194916	194915.672
Tl	205	0.523	ug/L	15.288	5697	0.015
Pb	208	0.333	ug/L	6.159	7212	0.018
Th	232	0.791	ug/L	12.443	9984	0.043
U	238	0.251	ug/L	11.942	3258	0.014

Sample ID: QC Std 12

Report Date/Time: Monday, April 12, 2010 07:17:43

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: QC Std 12

Report Date/Time: Monday, April 12, 2010 07:17:43

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QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45					104.6
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74					106.0
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115					103.6
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175					101.5
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 12	Mo	98	CCB is out of limits (+/- PQL)
QC Std 12	U	238	CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

Sample ID: QC Std 12
 Report Date/Time: Monday, April 12, 2010 07:17:43
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ICPMS#4 - Summary Report

Sample ID: 1202056962

Sample Date/Time: Monday, April 12, 2010 07:21:11

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 959143|1|bcd1

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\1202056962.595

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.143	ug/L	13.122	127	0.000
Be	9	-0.004	ug/L	921.329	7	-0.000
B	11	0.877	ug/L	21.869	258	0.000
Na	23	12.772	ug/L	60.337	32040	0.032
Mg	24	2.405	ug/L	73.446	5334	0.005
Al	27	5.007	ug/L	22.612	12005	0.013
P	31	1.785	ug/L	95.255	3039	0.000
K	39	-3.284	ug/L	173.206	402258	-0.014
Ca	43	47.477	ug/L	9.722	530	0.000
> Sc	45		ug/L		670540	670539.909
Ti	47	0.539	ug/L	23.852	373	0.000
V	51	2.135	ug/L	125.702	26223	0.014
Cr	52	-5.017	ug/L	10.043	-27425	-0.024
Cr	53		ug/L		330093	0.298
Mn	55	0.291	ug/L	5.059	2278	0.002
Fe	57	16.759	ug/L	3.147	7202	0.003
Co	59	0.007	ug/L	76.158	201	0.000
Ni	60	0.012	ug/L	91.851	92	0.000
Cu	63		ug/L		2713	0.001
Cu	65	0.390	ug/L	4.437	1340	0.001
Zn	66	3.894	ug/L	21.925	3080	0.008
Zn	67		ug/L		28811	0.076
Zn	68		ug/L		3589	0.009
> Ge	74		ug/L		276604	276603.810
As	75	1.080	ug/L	73.792	706	0.003
Se	77		ug/L		19827	0.050
Se	82	1.778	ug/L	8.411	140	0.000
Kr	83		ug/L		63	0.000
Sr	88	0.098	ug/L	8.979	1139	0.005
Y	89		ug/L		35	0.000
Zr	90	0.412	ug/L	14.925	2688	0.013
Mo	98	0.578	ug/L	6.957	1789	0.008
Ag	107	0.047	ug/L	11.814	351	0.001
Cd	111	0.028	ug/L	25.867	46	0.000
Cd	114		ug/L		96	0.000
> In	115		ug/L		169936	169936.103
Sn	120	1.588	ug/L	6.680	7064	0.036
Sb	121	0.783	ug/L	21.460	2731	0.012
Sb	123		ug/L		2144	0.009
Ba	135		ug/L		62	0.000
Ba	137	0.062	ug/L	15.856	130	0.000
Ho	165		ug/L		9	0.000
> Lu	175		ug/L		195300	195300.114
Tl	205	0.286	ug/L	14.594	4421	0.008
Pb	208	0.896	ug/L	4.362	13097	0.048
Th	232	0.546	ug/L	13.049	7400	0.030
U	238	0.099	ug/L	34.577	1658	0.005

Sample ID: 1202056962

Report Date/Time: Monday, April 12, 2010 07:23:58

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45		108.6		
|	Ti	47				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
[	Zn	66				
|	Zn	67				
|	Zn	68				
>	Ge	74		110.2		
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
[	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115		108.3		
|	Sn	120				
|	Sb	121				
|	Sb	123				
[	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175		101.7		
|	Tl	205				
|	Pb	208				
|	Th	232				
|	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056962

Report Date/Time: Monday, April 12, 2010 07:23:58

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ICPMS#4 - Summary Report

Sample ID: 1202056963

Sample Date/Time: Monday, April 12, 2010 07:27:26

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 959143|1|bcd1

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\1202056963.596

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	46.439	ug/L	0.993	30973	0.046
Be	9	49.424	ug/L	1.921	8467	0.012
B	11	101.849	ug/L	3.910	15527	0.023
Na	23	2161.081	ug/L	9.523	3698796	5.431
Mg	24	1758.857	ug/L	5.210	2346286	3.452
Al	27	2018.486	ug/L	0.513	3572331	5.256
P	31	1897.353	ug/L	2.502	202145	0.293
K	39	2098.839	ug/L	4.372	6708083	9.266
Ca	43	2096.628	ug/L	1.798	13829	0.020
Sc	45		ug/L		678981	678980.647
Ti	47	48.416	ug/L	1.174	15846	0.023
V	51	52.680	ug/L	9.512	247950	0.340
Cr	52	47.327	ug/L	2.277	143077	0.228
Cr	53		ug/L		357479	0.332
Mn	55	54.862	ug/L	1.912	296036	0.435
Fe	57	2151.823	ug/L	1.804	241497	0.348
Co	59	53.125	ug/L	1.261	221750	0.326
Ni	60	54.248	ug/L	1.739	48099	0.071
Cu	63		ug/L		114060	0.165
Cu	65	56.104	ug/L	1.386	55878	0.081
Zn	66	54.367	ug/L	1.577	32858	0.114
Zn	67		ug/L		34686	0.096
Zn	68		ug/L		24904	0.085
Ge	74		ug/L		280457	280456.778
As	75	53.154	ug/L	1.969	36827	0.131
Se	77		ug/L		21667	0.055
Se	82	53.596	ug/L	3.993	3431	0.012
Kr	83		ug/L		66	0.000
Sr	88	52.722	ug/L	1.986	498362	2.926
Y	89		ug/L		46	0.000
Zr	90	50.354	ug/L	2.213	261657	1.533
Mo	98	51.093	ug/L	1.014	118176	0.691
Ag	107	54.091	ug/L	0.255	192592	1.130
Cd	111	51.657	ug/L	1.741	43895	0.258
Cd	114		ug/L		102489	0.602
In	115		ug/L		170293	170292.514
Sn	120	51.337	ug/L	2.218	196754	1.149
Sb	121	64.001	ug/L	1.373	167324	0.979
Sb	123		ug/L		129336	0.756
Ba	135		ug/L		44777	0.223
Ba	137	52.395	ug/L	1.221	78690	0.392
Ho	165		ug/L		15	0.000
Lu	175		ug/L		200426	200426.184
Tl	205	46.424	ug/L	3.363	261596	1.290
Pb	208	52.717	ug/L	0.606	568271	2.816
Th	232	51.829	ug/L	0.553	564980	2.811
U	238	54.132	ug/L	0.573	585442	2.918

Sample ID: 1202056963

Report Date/Time: Monday, April 12, 2010 07:30:13

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		110.0			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		111.8			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		108.5			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		104.4			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056963

Report Date/Time: Monday, April 12, 2010 07:30:13

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ICPMS#4 - Summary Report

Sample ID: 248245001

Sample Date/Time: Monday, April 12, 2010 07:39:53

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959143|1|bcd1

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\248245001.598

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.202	ug/L	4.985	170	0.000
Be	9	0.003	ug/L	416.012	9	0.000
B	11	28.553	ug/L	1.069	4501	0.006
Na	23	135.468	ug/L	6.692	244750	0.340
Mg	24	11.455	ug/L	14.023	17678	0.022
Al	27	33.754	ug/L	24.390	63814	0.088
P	31	-0.478	ug/L	347.152	2875	-0.000
K	39	73.461	ug/L	9.704	645259	0.324
Ca	43	96.777	ug/L	5.913	867	0.001
> Sc	45		ug/L		687479	687479.165
Ti	47	1.077	ug/L	5.476	558	0.001
V	51	0.465	ug/L	755.954	19423	0.003
Cr	52	-2.970	ug/L	7.380	-21358	-0.014
Cr	53		ug/L		395510	0.381
Mn	55	0.881	ug/L	2.449	5553	0.007
Fe	57	40.673	ug/L	2.469	10040	0.007
Co	59	0.009	ug/L	24.585	213	0.000
Ni	60	0.479	ug/L	4.507	512	0.001
Cu	63		ug/L		3546	0.002
Cu	65	0.764	ug/L	7.272	1744	0.001
Zn	66	2.899	ug/L	6.275	2605	0.006
Zn	67		ug/L		32544	0.085
Zn	68		ug/L		3398	0.008
> Ge	74		ug/L		287691	287690.888
As	75	-0.108	ug/L	309.407	-103	-0.000
Se	77		ug/L		26896	0.071
Se	82	0.335	ug/L	60.302	52	0.000
Kr	83		ug/L		67	0.000
Sr	88	0.336	ug/L	1.820	3400	0.019
Y	89		ug/L		507	0.003
Zr	90	0.184	ug/L	7.517	1518	0.006
Mo	98	0.225	ug/L	10.854	983	0.003
Ag	107	0.012	ug/L	25.920	226	0.000
Cd	111	0.273	ug/L	7.895	255	0.001
Cd	114		ug/L		586	0.003
> In	115		ug/L		171034	171033.741
Sn	120	0.700	ug/L	0.931	3711	0.016
Sb	121	0.111	ug/L	22.682	993	0.002
Sb	123		ug/L		819	0.001
Ba	135		ug/L		699	0.003
Ba	137	0.755	ug/L	1.649	1159	0.006
Ho	165		ug/L		25	0.000
> Lu	175		ug/L		197833	197832.830
Tl	205	0.167	ug/L	8.627	3826	0.005
Pb	208	0.637	ug/L	3.570	10539	0.034
Th	232	0.159	ug/L	12.325	3354	0.009
U	238	-0.008	ug/L	125.937	544	-0.000

Sample ID: 248245001

Report Date/Time: Monday, April 12, 2010 07:42:36

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45	111.3			
|	Ti	47				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
[	Zn	66				
|	Zn	67				
|	Zn	68				
>	Ge	74	114.6			
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
[	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115	109.0			
|	Sn	120				
|	Sb	121				
|	Sb	123				
[	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175	103.0			
|	Tl	205				
|	Pb	208				
|	Th	232				
|	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 248245001

Report Date/Time: Monday, April 12, 2010 07:42:36

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ICPMS#4 - Summary Report

Sample ID: 1202056964

Sample Date/Time: Monday, April 12, 2010 07:52:07

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 959143|1|bcd1

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\1202056964.600

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.059	ug/L	22.721	70	0.000
Be	9	-0.015	ug/L	48.144	5	-0.000
B	11	0.557	ug/L	16.385	205	0.000
Na	23	7.539	ug/L	30.348	22685	0.019
Mg	24	-0.879	ug/L	87.595	1000	-0.002
Al	27	1.851	ug/L	65.777	6335	0.005
P	31	-1.521	ug/L	42.770	2632	-0.000
K	39	13.091	ug/L	91.064	439682	0.058
Ca	43	61.910	ug/L	15.505	608	0.001
Sc	45		ug/L		654555	654554.738
Ti	47	0.441	ug/L	8.009	333	0.000
V	51	2.700	ug/L	96.875	27920	0.017
Cr	52	-5.844	ug/L	5.778	-29384	-0.028
Cr	53		ug/L		366414	0.366
Mn	55	0.330	ug/L	1.865	2427	0.003
Fe	57	16.858	ug/L	13.863	7038	0.003
Co	59	-0.011	ug/L	61.470	124	-0.000
Ni	60	0.008	ug/L	105.788	87	0.000
Cu	63		ug/L		2679	0.001
Cu	65	0.382	ug/L	12.084	1300	0.001
Zn	66	1.911	ug/L	5.743	1886	0.004
Zn	67		ug/L		31156	0.087
Zn	68		ug/L		2897	0.006
Ge	74		ug/L		270114	270113.917
As	75	0.901	ug/L	204.703	574	0.002
Se	77		ug/L		22600	0.062
Se	82	-0.027	ug/L	729.102	26	-0.000
Kr	83		ug/L		69	0.000
Sr	88	0.083	ug/L	5.989	964	0.005
Y	89		ug/L		34	0.000
Zr	90	0.040	ug/L	14.827	743	0.001
Mo	98	0.076	ug/L	12.243	620	0.001
Ag	107	-0.004	ug/L	123.700	164	-0.000
Cd	111	-0.006	ug/L	100.717	17	-0.000
Cd	114		ug/L		30	-0.000
In	115		ug/L		165629	165628.876
Sn	120	0.606	ug/L	1.074	3243	0.014
Sb	121	0.032	ug/L	42.429	761	0.000
Sb	123		ug/L		634	0.000
Ba	135		ug/L		87	0.000
Ba	137	0.070	ug/L	22.452	140	0.001
Ho	165		ug/L		9	0.000
Lu	175		ug/L		192962	192961.865
Tl	205	-0.100	ug/L	9.525	2298	-0.003
Pb	208	0.474	ug/L	8.045	8590	0.025
Th	232	0.018	ug/L	22.531	1798	0.001
U	238	-0.026	ug/L	14.971	345	-0.001

Sample ID: 1202056964

Report Date/Time: Monday, April 12, 2010 07:54:51

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45			106.0		
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74			107.6		
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115			105.5		
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175			100.5		
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056964

Report Date/Time: Monday, April 12, 2010 07:54:51

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ICPMS#4 - Summary Report

Sample ID: 1202056965

Sample Date/Time: Monday, April 12, 2010 07:58:16

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 959143|1|bcd1

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\1202056965.601

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	47.585	ug/L	2.600	31282	0.047
Be	9	51.594	ug/L	2.687	8711	0.013
B	11	106.232	ug/L	3.003	15956	0.024
Na	23	2010.546	ug/L	8.062	3389950	5.053
Mg	24	1923.800	ug/L	10.410	2527797	3.776
Al	27	1925.085	ug/L	3.234	3358846	5.013
P	31	1924.268	ug/L	3.600	201998	0.298
K	39	1953.313	ug/L	7.572	6178191	8.623
Ca	43	2188.220	ug/L	1.815	14218	0.021
> Sc	45		ug/L		669439	669438.720
Ti	47	50.313	ug/L	1.801	16224	0.024
V	51	53.599	ug/L	6.306	248276	0.346
Cr	52	47.534	ug/L	3.413	141666	0.229
Cr	53		ug/L		372912	0.363
Mn	55	55.476	ug/L	2.572	295034	0.440
Fe	57	2198.137	ug/L	2.392	243035	0.355
Co	59	54.417	ug/L	2.109	223889	0.334
Ni	60	55.027	ug/L	3.909	48085	0.072
Cu	63		ug/L		115552	0.169
Cu	65	56.795	ug/L	2.274	55746	0.082
Zn	66	52.499	ug/L	1.328	31474	0.110
Zn	67		ug/L		36153	0.102
Zn	68		ug/L		24601	0.084
> Ge	74		ug/L		277943	277942.603
As	75	82.744	ug/L	1.494	56831	0.205
Se	77		ug/L		21466	0.055
Se	82	21.276	ug/L	4.852	1367	0.005
Kr	83		ug/L		69	0.000
Sr	88	54.432	ug/L	1.331	507046	3.020
Y	89		ug/L		83	0.000
Zr	90	52.827	ug/L	2.857	270453	1.609
Mo	98	52.779	ug/L	1.801	120282	0.714
Ag	107	55.961	ug/L	1.350	196331	1.169
Cd	111	10.842	ug/L	2.107	9096	0.054
Cd	114		ug/L		20928	0.124
> In	115		ug/L		167825	167825.438
Sn	120	52.325	ug/L	2.539	197584	1.172
Sb	121	261.020	ug/L	2.498	670291	3.991
Sb	123		ug/L		524032	3.120
Ba	135		ug/L		45879	0.234
Ba	137	54.212	ug/L	3.182	79754	0.406
Ho	165		ug/L		107	0.001
> Lu	175		ug/L		196391	196390.884
Tl	205	97.685	ug/L	3.335	536059	2.715
Pb	208	44.199	ug/L	2.253	467373	2.361
Th	232	55.996	ug/L	3.926	597829	3.036
U	238	57.161	ug/L	1.615	605660	3.081

Sample ID: 1202056965

Report Date/Time: Monday, April 12, 2010 08:01:00

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45			108.4		
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
L Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74			110.8		
As	75					
Se	77					
Se	82					
L Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115			106.9		
Sn	120					
Sb	121					
L Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175			102.2		
Tl	205					
Pb	208					
Th	232					
L U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
	Sb	121Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: 1202056966

Sample Date/Time: Monday, April 12, 2010 08:04:25

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 959143|5|bcd1

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\1202056966.602

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.038	ug/L	55.593	55	0.000
Be	9	0.020	ug/L	44.091	11	0.000
B	11	1.042	ug/L	24.557	267	0.000
Na	23	5.062	ug/L	9.338	18011	0.013
Mg	24	-0.589	ug/L	206.354	1333	-0.001
Al	27	1.561	ug/L	79.027	5668	0.004
P	31	2.245	ug/L	86.843	2920	0.000
K	39	-12.490	ug/L	95.159	354708	-0.055
Ca	43	21.789	ug/L	32.809	345	0.000
Sc	45		ug/L		634355	634355.247
Ti	47	0.171	ug/L	53.664	242	0.000
V	51	-0.034	ug/L	686.201	15926	-0.000
Cr	52	-0.602	ug/L	8.186	-12484	-0.003
Cr	53		ug/L		160013	0.058
Mn	55	0.080	ug/L	25.617	1097	0.001
Fe	57	-0.604	ug/L	188.420	5033	-0.000
Co	59	0.019	ug/L	45.055	237	0.000
Ni	60	0.018	ug/L	103.137	92	0.000
Cu	63		ug/L		1915	-0.000
Cu	65	-0.022	ug/L	409.385	890	-0.000
Zn	66	0.298	ug/L	28.389	931	0.001
Zn	67		ug/L		9958	0.011
Zn	68		ug/L		1345	0.001
Ge	74		ug/L		259204	259203.758
As	75	1.222	ug/L	123.342	746	0.003
Se	77		ug/L		8610	0.011
Se	82	0.163	ug/L	113.663	37	0.000
Kr	83		ug/L		55	-0.000
Sr	88	0.040	ug/L	16.850	554	0.002
Y	89		ug/L		25	0.000
Zr	90	0.023	ug/L	26.336	638	0.001
Mo	98	0.092	ug/L	21.429	637	0.001
Ag	107	0.040	ug/L	20.189	308	0.001
Cd	111	-0.010	ug/L	64.498	13	-0.000
Cd	114		ug/L		38	-0.000
In	115		ug/L		161015	161014.909
Sn	120	0.115	ug/L	21.640	1384	0.003
Sb	121	0.044	ug/L	18.024	770	0.001
Sb	123		ug/L		602	0.000
Ba	135		ug/L		59	0.000
Ba	137	0.035	ug/L	17.628	90	0.000
Ho	165		ug/L		8	0.000
Lu	175		ug/L		195461	195460.902
Tl	205	1.267	ug/L	19.038	9736	0.035
Pb	208	0.075	ug/L	10.680	4535	0.004
Th	232	0.212	ug/L	23.916	3867	0.012
U	238	0.026	ug/L	107.813	897	0.001

Sample ID: 1202056966

Report Date/Time: Monday, April 12, 2010 08:07:09

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45	102.7			
|	Ti	47				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
|	Zn	66				
|	Zn	67				
|	Zn	68				
>	Ge	74	103.3			
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115	102.6			
|	Sn	120				
|	Sb	121				
|	Sb	123				
|	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175	101.8			
|	Tl	205				
|	Pb	208				
|	Th	232				
|	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056966

Report Date/Time: Monday, April 12, 2010 08:07:09

Page 3

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 12, 2010 08:16:43

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 6.604

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	49.111	ug/L	1.397	30660	0.048
Be	9	49.648	ug/L	0.449	7962	0.013
B	11	95.933	ug/L	0.707	13698	0.021
Na	23	5438.316	ug/L	3.659	8696705	13.667
Mg	24	4807.809	ug/L	6.844	5997845	9.436
Al	27	4771.705	ug/L	1.128	7901826	12.426
P	31	4775.493	ug/L	0.994	472177	0.739
K	39	4815.523	ug/L	2.270	13902386	21.259
Ca	43	4868.482	ug/L	1.078	29778	0.047
Sc	45		ug/L		635621	635621.204
Ti	47	51.346	ug/L	1.493	15719	0.024
V	51	51.023	ug/L	2.798	225314	0.329
Cr	52	50.535	ug/L	1.356	143735	0.243
Cr	53		ug/L		128393	0.008
Mn	55	53.143	ug/L	2.289	268434	0.421
Fe	57	5017.475	ug/L	1.514	520298	0.811
Co	59	50.429	ug/L	1.701	197050	0.310
Ni	60	52.765	ug/L	0.947	43797	0.069
Cu	63		ug/L		104441	0.161
Cu	65	53.980	ug/L	2.009	50360	0.078
Zn	66	54.915	ug/L	0.913	30482	0.115
Zn	67		ug/L		11538	0.017
Zn	68		ug/L		21808	0.080
Ge	74		ug/L		257639	257639.114
As	75	52.305	ug/L	0.628	33285	0.129
Se	77		ug/L		6979	0.005
Se	82	49.562	ug/L	6.474	2916	0.011
Kr	83		ug/L		57	-0.000
Sr	88	51.094	ug/L	0.701	457036	2.835
Y	89		ug/L		43	0.000
Zr	90	48.204	ug/L	1.558	237037	1.468
Mo	98	48.469	ug/L	2.476	106091	0.656
Ag	107	51.679	ug/L	1.868	174105	1.079
Cd	111	50.877	ug/L	1.011	40912	0.254
Cd	114		ug/L		96720	0.600
In	115		ug/L		161133	161132.860
Sn	120	49.512	ug/L	2.096	179587	1.109
Sb	121	55.975	ug/L	3.620	138541	0.856
Sb	123		ug/L		107024	0.661
Ba	135		ug/L		43136	0.220
Ba	137	51.403	ug/L	1.717	75503	0.385
Ho	165		ug/L		12	0.000
Lu	175		ug/L		196019	196019.082
Tl	205	49.635	ug/L	2.226	273262	1.380
Pb	208	50.633	ug/L	1.186	533931	2.705
Th	232	50.715	ug/L	1.434	540640	2.750
U	238	53.083	ug/L	1.356	561413	2.861

Sample ID: QC Std 6

Report Date/Time: Monday, April 12, 2010 08:19:27

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7	98.222				
|	Be	9	99.297				
|	B	11	95.933				
|	Na	23	108.766				
|	Mg	24	96.156				
|	Al	27	94.489				
|	P	31	95.510				
|	K	39	96.310				
|	Ca	43	97.370				
>	Sc	45		102.9			
|	Ti	47	102.692				
|	V	51	102.047				
|	Cr	52	101.069				
|	Cr	53					
|	Mn	55	106.287				
|	Fe	57	100.350				
|	Co	59	100.859				
|	Ni	60	105.529				
|	Cu	63					
|	Cu	65	107.960				
|	Zn	66	109.829				
|	Zn	67					
|	Zn	68					
>	Ge	74		102.7			
|	As	75	104.610				
|	Se	77					
|	Se	82	99.124				
|	Kr	83					
|	Sr	88	102.188				
|	Y	89					
|	Zr	90	96.409				
|	Mo	98	96.938				
|	Ag	107	103.357				
|	Cd	111	101.754				
|	Cd	114					
>	In	115		102.7			
|	Sn	120	99.024				
|	Sb	121	111.951				
|	Sb	123					
|	Ba	135					
|	Ba	137	102.805				
|	Ho	165					
>	Lu	175		102.1			
|	Tl	205	99.269				
|	Pb	208	101.265				
|	Th	232	101.430				
|	U	238	106.166				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 6	Sb	121CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 12, 2010 08:22:53

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 7.605

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.037	ug/L	27.696	54	0.000
Be	9	-0.009	ug/L	174.425	6	-0.000
B	11	0.977	ug/L	29.710	256	0.000
Na	23	0.510	ug/L	376.439	10671	0.001
Mg	24	1.058	ug/L	179.612	3334	0.002
Al	27	1.383	ug/L	90.790	5334	0.004
P	31	3.156	ug/L	46.445	2986	0.000
K	39	-9.067	ug/L	15.290	361517	-0.040
Ca	43	7.433	ug/L	37.079	257	0.000
> Sc	45		ug/L		629469	629468.708
Ti	47	0.011	ug/L	96.799	192	0.000
V	51	0.034	ug/L	831.736	16087	0.000
Cr	52	0.022	ug/L	231.666	-10502	0.000
Cr	53		ug/L		123068	0.001
Mn	55	0.022	ug/L	21.335	796	0.000
Fe	57	2.120	ug/L	92.671	5271	0.000
Co	59	0.006	ug/L	43.699	183	0.000
Ni	60	0.014	ug/L	28.770	88	0.000
Cu	63		ug/L		1882	-0.000
Cu	65	-0.010	ug/L	384.567	895	-0.000
Zn	66	0.025	ug/L	339.847	768	0.000
Zn	67		ug/L		7444	0.001
Zn	68		ug/L		1086	-0.000
> Ge	74		ug/L		254040	254039.890
As	75	0.738	ug/L	72.561	439	0.002
Se	77		ug/L		5811	0.001
Se	82	1.206	ug/L	17.310	96	0.000
Kr	83		ug/L		48	-0.000
Sr	88	0.011	ug/L	22.286	295	0.001
Y	89		ug/L		20	-0.000
Zr	90	0.235	ug/L	17.317	1647	0.007
Mo	98	0.374	ug/L	16.864	1231	0.005
Ag	107	0.039	ug/L	19.583	297	0.001
Cd	111	0.020	ug/L	111.422	36	0.000
Cd	114		ug/L		73	0.000
> In	115		ug/L		158405	158404.898
Sn	120	0.092	ug/L	14.939	1277	0.002
Sb	121	1.066	ug/L	26.815	3226	0.016
Sb	123		ug/L		2503	0.012
Ba	135		ug/L		31	0.000
Ba	137	0.012	ug/L	42.777	56	0.000
Ho	165		ug/L		8	-0.000
> Lu	175		ug/L		194356	194355.651
Tl	205	0.219	ug/L	28.077	4034	0.006
Pb	208	0.049	ug/L	50.673	4239	0.003
Th	232	0.343	ug/L	22.528	5221	0.019
U	238	0.046	ug/L	39.839	1109	0.002

Sample ID: QC Std 7

Report Date/Time: Monday, April 12, 2010 08:25:39

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		102.0			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
L Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		101.2			
As	75					
Se	77					
Se	82					
L Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		100.9			
Sn	120					
Sb	121					
L Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		101.2			
Tl	205					
Pb	208					
Th	232					
L U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Monday, April 12, 2010 08:25:39

Page 3

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 11:45:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\Blank.001

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		185761	
|	Sn	120		ug/L		601	
|	Sb	121		ug/L		81	
|	Sb	123		ug/L		67	
[>	Lu	175		ug/L		392643	
|	U	238		ug/L		76	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Simple Linear	
Sn	120	Simple Linear	
Sb	121	Simple Linear	
Sb	123	Simple Linear	
Lu	175	Simple Linear	
U	238	Simple Linear	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	In	115					
|	Sn	120					
|	Sb	121					
|	Sb	123					
[>	Lu	175					
|	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Blank

Report Date/Time: Tuesday, April 13, 2010 11:45:32

Page 1

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, April 13, 2010 11:47:29

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\Standard 1.002

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		182036	182035.964
| Sn	120	10.000	ug/L	2.014	53910	0.293
| Sb	121	10.000	ug/L	2.863	41462	0.227
| Sb	123		ug/L		32322	0.177
[> Lu	175		ug/L		382362	382362.256
| U	238	10.000	ug/L	3.365	459323	1.201

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[> In	115					
| Sn	120					
| Sb	121					
| Sb	123					
[> Lu	175					
| U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 1

Report Date/Time: Tuesday, April 13, 2010 11:47:57

Page 1

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, April 13, 2010 11:49:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\Standard 2.003

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		184236	184236.210
| Sn	120	99.964	ug/L	2.074	521119	2.826
| Sb	121	100.049	ug/L	1.558	440889	2.393
| Sb	123		ug/L		342818	1.861
[> Lu	175		ug/L		399772	399771.738
[U	238	99.900	ug/L	1.081	4361704	10.910

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[> In	115						
| Sn	120						
| Sb	121						
| Sb	123						
[> Lu	175						
[U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 2

Report Date/Time: Tuesday, April 13, 2010 11:50:23

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, April 13, 2010 11:52:21

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 1.004

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		184783	184782.938
|	Sn	120	50.255	ug/L	2.353	263015	1.421
|	Sb	121	53.137	ug/L	3.381	234778	1.271
|	Sb	123		ug/L		182858	0.989
[>	Lu	175		ug/L		396367	396366.712
|	U	238	51.729	ug/L	1.463	2238990	5.649

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[>	In	115			99.5			
|	Sn	120	100.511					
|	Sb	121	106.273					
|	Sb	123						
[>	Lu	175		100.9				
|	U	238	103.458					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 1

Report Date/Time: Tuesday, April 13, 2010 11:52:49

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, April 13, 2010 11:54:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 2.005

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		186749	186749.324
|	Sn	120	-0.014	ug/L	83.102	532	-0.000
|	Sb	121	0.344	ug/L	3.857	1616	0.008
|	Sb	123		ug/L		1273	0.006
[>	Lu	175		ug/L		394533	394532.622
|	U	238	0.005	ug/L	10.622	275	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	In	115		100.5				
|	Sn	120						
|	Sb	121						
|	Sb	123						
[>	Lu	175		100.5				
|	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 2

Report Date/Time: Tuesday, April 13, 2010 11:55:20

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, April 13, 2010 11:57:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 3.006

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		187234	187233.558
|	Sn	120	5.598	ug/L	2.621	30227	0.158
|	Sb	121	2.944	ug/L	1.367	13265	0.070
|	Sb	123		ug/L		10433	0.055
[>	Lu	175		ug/L		396608	396607.555
|	U	238	0.301	ug/L	2.546	13096	0.033

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	In	115		100.8				
|	Sn	120	111.957					
|	Sb	121	98.142					
|	Sb	123						
[>	Lu	175		101.0				
|	U	238	150.304					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	U	238	CRDL is out of limits

QC Action

QC Action Line: Continue

Sample ID: QC Std 3

Report Date/Time: Tuesday, April 13, 2010 11:57:47

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, April 13, 2010 11:59:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 4.007

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		163099	163099.298
|	Sn	120	0.204	ug/L	2.717	1469	0.006
|	Sb	121	0.265	ug/L	3.152	1103	0.006
|	Sb	123		ug/L		895	0.005
[>	Lu	175		ug/L		355401	355400.625
|	U	238	0.002	ug/L	19.302	147	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	In	115		87.8				
|	Sn	120						
|	Sb	121						
|	Sb	123						
[>	Lu	175		90.5				
|	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 4

Report Date/Time: Tuesday, April 13, 2010 12:00:14

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, April 13, 2010 12:02:12

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 5.008

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		164246	164245.716
|	Sn	120	20.117	ug/L	2.678	93906	0.569
|	Sb	121	20.261	ug/L	2.170	79645	0.485
|	Sb	123		ug/L		62352	0.379
[>	Lu	175		ug/L		356670	356669.933
|	U	238	21.126	ug/L	0.769	822958	2.307

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	In	115		88.4				
|	Sn	120	100.587					
|	Sb	121	101.307					
|	Sb	123						
[>	Lu	175		90.8				
|	U	238	105.631					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 5

Report Date/Time: Tuesday, April 13, 2010 12:02:42

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, April 13, 2010 12:04:40

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 6.009

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		180800	180799.988
| Sn	120	49.813	ug/L	3.483	255017	1.408
| Sb	121	52.557	ug/L	3.494	227209	1.257
| Sb	123		ug/L		178584	0.988
[> Lu	175		ug/L		384201	384200.999
| U	238	52.168	ug/L	0.479	2188900	5.697

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[> In	115		97.3				
| Sn	120	99.627					
| Sb	121	105.114					
| Sb	123						
[> Lu	175		97.8				
| U	238	104.336					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 6

Report Date/Time: Tuesday, April 13, 2010 12:05:10

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, April 13, 2010 12:07:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 7.010

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		178005	178004.541
|	Sn	120	-0.027	ug/L	23.813	442	-0.001
|	Sb	121	0.191	ug/L	2.212	892	0.005
|	Sb	123		ug/L		687	0.004
[>	Lu	175		ug/L		382061	382060.614
|	U	238	0.003	ug/L	10.893	210	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	In	115		95.8				
|	Sn	120						
|	Sb	121						
|	Sb	123						
[>	Lu	175		97.3				
|	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Tuesday, April 13, 2010 12:07:40

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202056962

Sample Date/Time: Tuesday, April 13, 2010 12:09:38

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 959143|1|prb

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\1202056962.011

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		184850	184849.895
|	Sn	120	0.427	ug/L	4.073	2830	0.012
|	Sb	121	0.188	ug/L	4.974	910	0.004
|	Sb	123		ug/L		700	0.003
[>	Lu	175		ug/L		387599	387599.457
|	U	238	0.022	ug/L	1.470	1024	0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	In	115		99.5			
|	Sn	120					
|	Sb	121					
|	Sb	123					
[>	Lu	175		98.7			
|	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056963

Sample Date/Time: Tuesday, April 13, 2010 12:12:05

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 959143|1|prb

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\1202056963.012

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		184838	184838.106
|	Sn	120	53.947	ug/L	2.621	282425	1.525
|	Sb	121	57.478	ug/L	1.706	254160	1.375
|	Sb	123		ug/L		199568	1.079
[>	Lu	175		ug/L		389504	389504.224
|	U	238	52.118	ug/L	1.758	2217132	5.692

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	In	115		99.5				
|	Sn	120						
|	Sb	121						
|	Sb	123						
[>	Lu	175		99.2				
|	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056963

Report Date/Time: Tuesday, April 13, 2010 12:12:34

Page 1

ICPMS#5 - Summary Report

Sample ID: 248245001

Sample Date/Time: Tuesday, April 13, 2010 12:16:58

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959143|1|prb

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\248245001.014

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		186378	186378.125
|	Sn	120	0.202	ug/L	4.253	1666	0.006
|	Sb	121	0.054	ug/L	13.269	321	0.001
|	Sb	123		ug/L		244	0.001
[>	Lu	175		ug/L		396884	396884.117
|	U	238	0.007	ug/L	9.039	398	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	In	115		100.3			
|	Sn	120					
|	Sb	121					
|	Sb	123					
[>	Lu	175		101.1			
|	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 248245001

Report Date/Time: Tuesday, April 13, 2010 12:17:27

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202056964

Sample Date/Time: Tuesday, April 13, 2010 12:21:53

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 959143|1|prb

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\1202056964.016

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		185168	185167.844
|	Sn	120	0.198	ug/L	3.913	1635	0.006
|	Sb	121	0.026	ug/L	1.163	197	0.001
|	Sb	123		ug/L		161	0.001
[>	Lu	175		ug/L		391355	391354.879
|	U	238	0.001	ug/L	15.281	139	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	In	115		99.7			
|	Sn	120					
|	Sb	121					
|	Sb	123					
[>	Lu	175		99.7			
|	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056964

Report Date/Time: Tuesday, April 13, 2010 12:22:22

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ICPMS#5 - Summary Report

Sample ID: 1202056965

Sample Date/Time: Tuesday, April 13, 2010 12:24:21

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 9591431|prb

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\1202056965.017

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		184452	184451.759
| Sn	120	55.310	ug/L	2.457	288917	1.563
| Sb	121	228.435	ug/L	1.641	1007689	5.464
| Sb	123		ug/L		794158	4.305
[> Lu	175		ug/L		387371	387371.431
| U	238	53.644	ug/L	1.922	2269243	5.858

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[> In	115		99.3			
| Sn	120					
| Sb	121					
| Sb	123					
[> Lu	175		98.7			
| U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056965

Report Date/Time: Tuesday, April 13, 2010 12:24:50

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ICPMS#5 - Summary Report

Sample ID: 1202056966

Sample Date/Time: Tuesday, April 13, 2010 12:26:49

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 959143|5|prb

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\1202056966.018

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		179478	179478.170
|	Sn	120	0.001	ug/L	649.496	586	0.000
|	Sb	121	0.096	ug/L	7.686	492	0.002
|	Sb	123		ug/L		409	0.002
[>	Lu	175		ug/L		382275	382274.724
|	U	238	0.021	ug/L	4.665	968	0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Di	Duplicate Rel. % Difference
[>	In	115			96.6		
|	Sn	120					
|	Sb	121					
|	Sb	123					
[>	Lu	175			97.4		
|	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 12:31:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.020

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		179880	179879.590
|	Sn	120	50.183	ug/L	0.622	255755	1.419
|	Sb	121	52.882	ug/L	0.671	227587	1.265
|	Sb	123		ug/L		177328	0.985
[>	Lu	175		ug/L		385933	385933.317
|	U	238	51.782	ug/L	2.522	2181888	5.655

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[>	In	115			96.8			
|	Sn	120	100.367					
|	Sb	121	105.764					
|	Sb	123						
[>	Lu	175			98.3			
|	U	238	103.564					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 12:34:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.021

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		180084	180084.005
|	Sn	120	-0.039	ug/L	7.068	383	-0.001
|	Sb	121	0.142	ug/L	4.782	688	0.003
|	Sb	123		ug/L		548	0.003
[>	Lu	175		ug/L		382471	382471.262
|	U	238	0.004	ug/L	7.628	243	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	In	115		96.9				
|	Sn	120						
|	Sb	121						
|	Sb	123						
[>	Lu	175		97.4				
|	U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 9

Report Date/Time: Tuesday, April 13, 2010 12:34:43

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ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, April 13, 2010 15:12:52

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\Blank.090

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		350450	
[U	238		ug/L		325	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[> Lu	175					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: Blank

Report Date/Time: Tuesday, April 13, 2010 15:13:04

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ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, April 13, 2010 15:14:32

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\w only.mth

Dataset File: C:\elandata\Dataset\100413\Standard 1.091

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		357385	357385.496
[	U	238	10.000	ug/L	1.263	423309	1.183

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, April 13, 2010 15:16:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\Standard 2.092

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		346400	346400.487
[	U	238	99.956	ug/L	0.528	3924964	11.330

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
>	Lu	175					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, April 13, 2010 15:17:46

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 1.093

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		349311	349311.125
[	U	238	49.627	ug/L	0.746	1965252	5.625

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
>	Lu	175			99.7		
[U	238	99.254				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 1

Report Date/Time: Tuesday, April 13, 2010 15:17:56

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, April 13, 2010 15:19:26

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 2.094

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		350872	350872.277
[	U	238	0.012	ug/L	5.508	815	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dilution	Duplicate Rel. % Difference
[>	Lu	175			100.1		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 2

Report Date/Time: Tuesday, April 13, 2010 15:19:38

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, April 13, 2010 15:21:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 3.095

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		341237	341237.117
[	U	238	0.216	ug/L	1.954	8686	0.025

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			97.4		
[U	238	108.183				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, April 13, 2010 15:22:46

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 4.096

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		321479	321479.366
[	U	238	-0.002	ug/L	2.476	214	-0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			91.7		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 4

Report Date/Time: Tuesday, April 13, 2010 15:22:56

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, April 13, 2010 15:24:25

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 5.097

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		323412	323411.634
[	U	238	20.986	ug/L	1.639	769564	2.379

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			92.3			
[U	238	104.932					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 5

Report Date/Time: Tuesday, April 13, 2010 15:24:35

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, April 13, 2010 15:26:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 6.098

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		344845	344845.355
[	U	238	49.309	ug/L	1.762	1927882	5.589

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			98.4		
[U	238	98.617				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 6

Report Date/Time: Tuesday, April 13, 2010 15:26:15

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, April 13, 2010 15:27:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 7.099

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		345974	345974.197
[	U	238	0.010	ug/L	12.917	706	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	DiDuplicate	Rel. % Difference
[>	Lu	175			98.7			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Tuesday, April 13, 2010 15:27:57

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202056962

Sample Date/Time: Tuesday, April 13, 2010 15:29:25

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 959143|1|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\1202056962.100

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		352094	352094.182
[	U	238	0.018	ug/L	7.714	1047	0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
[>	Lu	175			100.5		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056963

Sample Date/Time: Tuesday, April 13, 2010 15:31:03

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 959143|1|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\1202056963.101

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		355950	355949.614
[	U	238	48.931	ug/L	0.880	1974557	5.546

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			101.6		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248245001

Sample Date/Time: Tuesday, April 13, 2010 15:34:19

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959143|1|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\248245001.103

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		356643	356643.193
[	U	238	0.002	ug/L	18.136	419	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			101.8		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056964

Sample Date/Time: Tuesday, April 13, 2010 15:37:37

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 959143|1|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\1202056964.105

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		362872	362871.988
[	U	238	-0.004	ug/L	6.948	157	-0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		103.5			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056965

Sample Date/Time: Tuesday, April 13, 2010 15:39:16

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 959143|1|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\1202056965.106

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		358477	358476.641
[	U	238	50.986	ug/L	3.392	2072120	5.779

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		102.3			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056965

Report Date/Time: Tuesday, April 13, 2010 15:39:27

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202056966

Sample Date/Time: Tuesday, April 13, 2010 15:40:55

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 959143|5|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\1202056966.107

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		357183	357182.936
[	U	238	0.030	ug/L	4.311	1557	0.003

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Duplicate Rel. % Difference
[>	Lu	175			101.9		
[	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
------------------	---------	------	-----------------------

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056966

Report Date/Time: Tuesday, April 13, 2010 15:41:06

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 15:44:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.109

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		341777	341777.190
[	U	238	50.362	ug/L	1.286	1951226	5.709

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175		97.5				
[	U	238	100.723					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
------------------	---------	------	-----------------------

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 8

Report Date/Time: Tuesday, April 13, 2010 15:44:24

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 15:45:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.110

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		349790	349789.814
[	U	238	0.009	ug/L	2.899	693	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		99.8			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 9

Report Date/Time: Tuesday, April 13, 2010 15:46:06

Page 1

=====
Analysis BegunLogged In Analyst: Administrator
Spectrometer Model: FIMS-100, S/N B050-9550Technique: AA FIMS-MHS
Autosampler Model: S10

Sample Information File: C:\data-AA\Administrator\Sample Information\030210W1.SIF

Batch ID:

Results Data Set: 030210W3

Results Library: C:\data-AA\Administrator\Results\Results.mdb

=====
Sequence No.: 1
Sample ID: Calib Blank
Analyst:Autosampler Location: 1
Date Collected: 3/2/2010 08:26:33
Data Type: Original-----
Replicate Data: Calib Blank

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0006	0.0027	0.0006	08:27:33	Yes
2		[0.00]	0.0006	0.0025	0.0006	08:28:08	Yes
Mean:		[0.00]	0.0006				
SD:		0.00	0.0000				
%RSD:		0.00	8.04				

Auto-zero performed.

=====
Sequence No.: 2
Sample ID: S0.2
Analyst:Autosampler Location: 2
Date Collected: 3/2/2010 08:28:26
Data Type: Original-----
Replicate Data: S0.2

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0021	0.0131	0.0027	08:29:27	Yes
2		[0.2]	0.0021	0.0122	0.0028	08:30:02	Yes
Mean:		[0.2]	0.0021				
SD:		0.0	0.0000				
%RSD:		0.0	0.35				

Standard number 1 applied. [0.2]

Correlation Coef.: 1.000000 Slope: 0.01068 Intercept: 0.00000

=====
Sequence No.: 3
Sample ID: S0.5
Analyst:Autosampler Location: 3
Date Collected: 3/2/2010 08:30:21
Data Type: Original-----
Replicate Data: S0.5

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0054	0.0299	0.0060	08:31:22	Yes
2		[0.5]	0.0055	0.0282	0.0061	08:31:57	Yes
Mean:		[0.5]	0.0055				
SD:		0.0	0.0001				
%RSD:		0.0	1.42				

Standard number 2 applied. [0.5]

Correlation Coef.: 0.999936 Slope: 0.01097 Intercept: -0.00002

=====
Sequence No.: 4
Sample ID: S2.0
Analyst:Autosampler Location: 4
Date Collected: 3/2/2010 08:32:17
Data Type: Original-----
Replicate Data: S2.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
--------	-----------------	--------------	----------------	-----------	-------------	------	-------------

1 [2.0] 0.0209 0.1041 0.0215 08:33:18 Yes
 2 [2.0] 0.0206 0.1004 0.0212 08:33:53 Yes
 Mean: [2.0] 0.0207
 SD: 0.0 0.0002
 %RSD: 0.0 0.90
 Standard number 3 applied. [2.0]
 Correlation Coef.: 0.999896 Slope: 0.01034 Intercept: 0.00011

Sequence No.: 5
 Sample ID: S5.0
 Analyst:

Autosampler Location: 5
 Date Collected: 3/2/2010 08:34:13
 Data Type: Original

Replicate Data: S5.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.0520	0.2558	0.0526	08:35:15	Yes
2		[5.0]	0.0500	0.2379	0.0506	08:35:49	Yes
Mean:		[5.0]	0.0510				
SD:		0.0	0.0014				
%RSD:		0.0	2.77				

Standard number 4 applied. [5.0]
 Correlation Coef.: 0.999965 Slope: 0.01018 Intercept: 0.00020

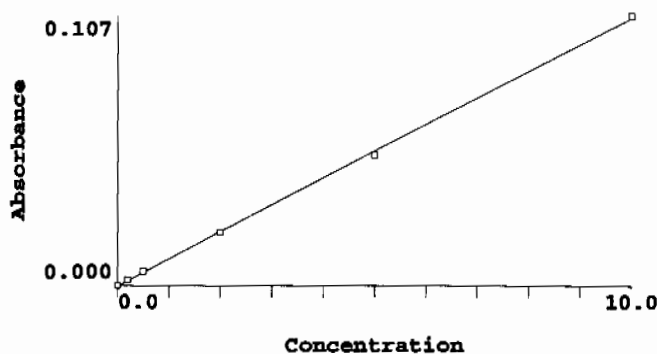
Sequence No.: 6
 Sample ID: S10.0
 Analyst:

Autosampler Location: 6
 Date Collected: 3/2/2010 08:36:10
 Data Type: Original

Replicate Data: S10.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.1058	0.5210	0.1064	08:37:10	Yes
2		[10.0]	0.1077	0.5459	0.1083	08:37:45	Yes
Mean:		[10.0]	0.1068				
SD:		0.0	0.0014				
%RSD:		0.0	1.27				

Standard number 5 applied. [10.0]
 Correlation Coef.: 0.999746 Slope: 0.01062 Intercept: -0.00030



Calibration data for Hg 253.7

Equation: Linear, Calculated Intercept

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calib Blank	0.0000	0	0.028	0.00	8.0
S0.2	0.0021	0.2	0.229	0.00	0.4
S0.5	0.0055	0.5	0.544	0.00	1.4
S2.0	0.0207	2.0	1.982	0.00	0.9
S5.0	0.0510	5.0	4.832	0.00	2.8
S10.0	0.1068	10.0	10.085	0.00	1.3

Correlation Coef.: 0.999746 Slope: 0.01062 Intercept: -0.00030

Sequence No.: 7
Sample ID: ICV
Analyst:

Autosampler Location: 9
Date Collected: 3/2/2010 08:38:04
Data Type: Original

Replicate Data: ICV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.221	5.221	0.0551	0.2819	0.0557	08:39:05	Yes
2	5.176	5.176	0.0547	0.2755	0.0553	08:39:40	Yes
Mean:	5.199	5.199	0.0549				
SD:	0.032	0.032	0.0003				
%RSD:	0.612	0.612	0.61				

QC value within limits for Hg 253.7 Recovery = 103.98%
All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICB
Analyst:

Autosampler Location: 10
Date Collected: 3/2/2010 08:40:00
Data Type: Original

Replicate Data: ICB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.031	0.031	0.0000	0.0024	0.0006	08:41:01	Yes
2	0.039	0.039	0.0001	0.0036	0.0007	08:41:36	Yes
Mean:	0.035	0.035	0.0001				
SD:	0.006	0.006	0.0001				
%RSD:	15.89	15.89	82.13				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 9
Sample ID: CRDL
Analyst:

Autosampler Location: 11
Date Collected: 3/2/2010 08:41:56
Data Type: Original

Replicate Data: CRDL

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.234	0.234	0.0022	0.0142	0.0028	08:42:57	Yes
2	0.245	0.245	0.0023	0.0156	0.0029	08:43:32	Yes
Mean:	0.240	0.240	0.0022				
SD:	0.008	0.008	0.0001				
%RSD:	3.187	3.187	3.61				

QC value within limits for Hg 253.7 Recovery = 119.76%
All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 3/2/2010 08:43:52
Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.182	5.182	0.0547	0.2774	0.0553	08:44:52	Yes
2	5.128	5.128	0.0542	0.2734	0.0548	08:45:27	Yes
Mean:	5.155	5.155	0.0544				
SD:	0.038	0.038	0.0004				
%RSD:	0.738	0.738	0.74				

QC value within limits for Hg 253.7 Recovery = 103.11%
All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 3/2/2010 08:45:46
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.012	0.012	-0.0002	-0.0000	0.0004	08:46:47	Yes
2	0.012	0.012	-0.0002	-0.0001	0.0004	08:47:22	Yes
Mean:	0.012	0.012	-0.0002				
SD:	0.000	0.000	0.0000				
%RSD:	0.848	0.848	0.63				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 12

Autosampler Location: 12

Sample ID: 1202055823|958575|1

Date Collected: 3/2/2010 08:47:41

Analyst: JXL

Data Type: Original

Replicate Data: 1202055823|958575|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.012	0.012	-0.0002	-0.0000	0.0004	08:48:43	Yes
2	0.016	0.016	-0.0001	0.0004	0.0005	08:49:17	Yes
Mean:	0.014	0.014	-0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	18.17	18.17	19.03				

Sequence No.: 13

Autosampler Location: 13

Sample ID: 1202055824|958575|1

Date Collected: 3/2/2010 08:49:38

Analyst: JXL

Data Type: Original

Replicate Data: 1202055824|958575|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.127	2.127	0.0223	0.1129	0.0229	08:50:40	Yes
2	2.104	2.104	0.0220	0.1110	0.0227	08:51:14	Yes
Mean:	2.116	2.116	0.0222				
SD:	0.016	0.016	0.0002				
%RSD:	0.778	0.778	0.79				

Sequence No.: 14

Autosampler Location: 14

Sample ID: 247037001|958575|1

Date Collected: 3/2/2010 08:51:35

Analyst: JXL

Data Type: Original

Replicate Data: 247037001|958575|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.028	0.028	-0.0000	0.0025	0.0006	08:52:35	Yes
2	0.045	0.045	0.0002	0.0048	0.0008	08:53:11	Yes
Mean:	0.037	0.037	0.0001				
SD:	0.012	0.012	0.0001				
%RSD:	34.19	34.19	145.41				

Sequence No.: 15

Autosampler Location: 15

Sample ID: 1202055825|958575|1

Date Collected: 3/2/2010 08:53:30

Analyst: JXL

Data Type: Original

Replicate Data: 1202055825|958575|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.019	0.019	-0.0001	0.0021	0.0005	08:54:30	Yes
2	0.028	0.028	-0.0000	0.0030	0.0006	08:55:05	Yes
Mean:	0.024	0.024	-0.0000				
SD:	0.006	0.006	0.0001				

1	0.032	0.032	0.0000	0.0035	0.0007	09:04:04	Yes
2	0.032	0.032	0.0000	0.0030	0.0007	09:04:39	Yes
Mean:	0.032	0.032	0.0000				
SD:	0.000	0.000	0.0000				
%RSD:	0.786	0.786	6.22				

Sequence No.: 21

Autosampler Location: 21

Sample ID: 247042004|958575|1

Date Collected: 3/2/2010 09:04:58

Analyst: JXL

Data Type: Original

Replicate Data: 247042004|958575|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.028	0.028	0.0000	0.0031	0.0006	09:05:59	Yes
2	0.030	0.030	0.0000	0.0036	0.0006	09:06:34	Yes
Mean:	0.029	0.029	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	4.826	4.826	93.90				

Sequence No.: 22

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/2/2010 09:06:54

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.128	5.128	0.0541	0.2768	0.0548	09:07:54	Yes
2	5.127	5.127	0.0541	0.2755	0.0547	09:08:29	Yes
Mean:	5.128	5.128	0.0541				
SD:	0.001	0.001	0.0000				
%RSD:	0.015	0.015	0.02				

QC value within limits for Hg 253.7 Recovery = 102.55%
All analyte(s) passed QC.

Sequence No.: 23

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/2/2010 09:08:48

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.032	0.032	0.0000	0.0035	0.0007	09:09:49	Yes
2	0.037	0.037	0.0001	0.0040	0.0007	09:10:24	Yes
Mean:	0.035	0.035	0.0001				
SD:	0.004	0.004	0.0000				
%RSD:	10.44	10.44	53.94				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 24

Autosampler Location: 22

Sample ID: 247042005|958575|1

Date Collected: 3/2/2010 09:10:43

Analyst: JXL

Data Type: Original

Replicate Data: 247042005|958575|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.029	0.029	0.0000	0.0033	0.0006	09:11:44	Yes
2	0.033	0.033	0.0001	0.0036	0.0007	09:12:19	Yes
Mean:	0.031	0.031	0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	8.235	8.235	83.29				

SD: 0.003 0.003 0.0000
%RSD: 9.252 9.252 154.88

Sequence No.: 30

Sample ID: 1202055830|958578|1

Analyst: JXL

Autosampler Location: 28

Date Collected: 3/2/2010 09:22:19

Data Type: Original

Replicate Data: 1202055830|958578|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.029	0.029	0.0000	0.0034	0.0006	09:23:19	Yes
2	0.026	0.026	-0.0000	0.0025	0.0006	09:23:54	Yes
Mean:	0.027	0.027	-0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	7.825	7.825	359.08				

Sequence No.: 31

Sample ID: 1202055831|958578|1

Analyst: JXL

Autosampler Location: 29

Date Collected: 3/2/2010 09:24:13

Data Type: Original

Replicate Data: 1202055831|958578|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.105	2.105	0.0221	0.1147	0.0227	09:25:14	Yes
2	2.105	2.105	0.0221	0.1146	0.0227	09:25:49	Yes
Mean:	2.105	2.105	0.0221				
SD:	0.000	0.000	0.0000				
%RSD:	0.010	0.010	0.01				

Sequence No.: 32

Sample ID: 1202055832|958278|5

Analyst: JXL

Autosampler Location: 30

Date Collected: 3/2/2010 09:26:08

Data Type: Original

Replicate Data: 1202055832|958278|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.026	0.026	-0.0000	0.0028	0.0006	09:27:08	Yes
2	0.025	0.025	-0.0000	0.0026	0.0006	09:27:43	Yes
Mean:	0.025	0.025	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	3.125	3.125	27.93				

Sequence No.: 33

Sample ID: 247036002|958578|1

Analyst: JXL

Autosampler Location: 31

Date Collected: 3/2/2010 09:28:02

Data Type: Original

Replicate Data: 247036002|958578|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.023	0.023	-0.0001	0.0026	0.0006	09:29:03	Yes
2	0.029	0.029	0.0000	0.0031	0.0006	09:29:38	Yes
Mean:	0.026	0.026	-0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	16.58	16.58	246.20				

Sequence No.: 34

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 3/2/2010 09:29:57

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
------	------------	---------	---------	------	------	------	------

#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.092	5.092	0.0538	0.2718	0.0544	09:30:58	Yes
2	5.019	5.019	0.0530	0.2655	0.0536	09:31:32	Yes
Mean:	5.056	5.056	0.0534				
SD:	0.051	0.051	0.0005				
%RSD:	1.013	1.013	1.02				

QC value within limits for Hg 253.7 Recovery = 101.11%
All analyte(s) passed QC.

Sequence No.: 35

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/2/2010 09:31:51

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.048	0.048	0.0002	0.0039	0.0008	09:32:52	Yes
2	0.033	0.033	0.0001	0.0029	0.0007	09:33:27	Yes
Mean:	0.040	0.040	0.0001				
SD:	0.010	0.010	0.0001				
%RSD:	25.10	25.10	81.63				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 36

Autosampler Location: 32

Sample ID: 247036003|958578|1

Date Collected: 3/2/2010 09:33:47

Analyst: JXL

Data Type: Original

Replicate Data: 247036003|958578|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.026	0.026	-0.0000	0.0027	0.0006	09:34:48	Yes
2	0.029	0.029	0.0000	0.0030	0.0006	09:35:23	Yes
Mean:	0.028	0.028	-0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	8.511	8.511	602.34				

Sequence No.: 37

Autosampler Location: 33

Sample ID: 247036004|958578|1

Date Collected: 3/2/2010 09:35:42

Analyst: JXL

Data Type: Original

Replicate Data: 247036004|958578|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.023	0.023	-0.0000	0.0024	0.0006	09:36:43	Yes
2	0.037	0.037	0.0001	0.0036	0.0007	09:37:18	Yes
Mean:	0.030	0.030	0.0000				
SD:	0.009	0.009	0.0001				
%RSD:	31.23	31.23	437.06				

Sequence No.: 38

Autosampler Location: 34

Sample ID: 247036005|958578|1

Date Collected: 3/2/2010 09:37:38

Analyst: JXL

Data Type: Original

Replicate Data: 247036005|958578|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.027	0.027	-0.0000	0.0029	0.0006	09:38:39	Yes
2	0.025	0.025	-0.0000	0.0028	0.0006	09:39:14	Yes
Mean:	0.026	0.026	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	4.570	4.570	52.14				

Mean: 0.029 0.029 0.0000
SD: 0.004 0.004 0.0000
%RSD: 15.71 15.71 746.11

Sequence No.: 44

Sample ID: 1202055833|958581|1

Analyst: JXL

Autosampler Location: 40

Date Collected: 3/2/2010 09:49:16

Data Type: Original

Replicate Data: 1202055833|958581|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.021	0.021	-0.0001	0.0024	0.0005	09:50:17	Yes
2	0.029	0.029	0.0000	0.0030	0.0006	09:50:51	Yes
Mean:	0.025	0.025	-0.0000				
SD:	0.005	0.005	0.0001				
%RSD:	21.51	21.51	171.71				

Sequence No.: 45

Sample ID: 1202055834|958581|1

Analyst: JXL

Autosampler Location: 41

Date Collected: 3/2/2010 09:51:11

Data Type: Original

Replicate Data: 1202055834|958581|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.186	2.186	0.0229	0.1196	0.0235	09:52:12	Yes
2	2.183	2.183	0.0229	0.1194	0.0235	09:52:47	Yes
Mean:	2.184	2.184	0.0229				
SD:	0.003	0.003	0.0000				
%RSD:	0.123	0.123	0.12				

Sequence No.: 46

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 3/2/2010 09:53:06

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.016	5.016	0.0530	0.2735	0.0536	09:54:06	Yes
2	5.018	5.018	0.0530	0.2717	0.0536	09:54:41	Yes
Mean:	5.017	5.017	0.0530				
SD:	0.001	0.001	0.0000				
%RSD:	0.023	0.023	0.02				

QC value within limits for Hg 253.7 Recovery = 100.34%
All analyte(s) passed QC.

Sequence No.: 47

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/2/2010 09:55:00

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.035	0.035	0.0001	0.0033	0.0007	09:56:01	Yes
2	0.032	0.032	0.0000	0.0031	0.0007	09:56:36	Yes
Mean:	0.034	0.034	0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	5.467	5.467	32.35				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 48

Sample ID: 247817001|958581|1

Autosampler Location: 42

Date Collected: 3/2/2010 09:56:55

2	0.038	0.038	0.0001	0.0037	0.0007	10:15:55	Yes
Mean:	0.037	0.037	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	4.045	4.045	16.44				

Sequence No.: 58
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 3/2/2010 10:16:14
Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.001	5.001	0.0528	0.2739	0.0534	10:17:15	Yes
2	4.992	4.992	0.0527	0.2715	0.0533	10:17:50	Yes
Mean:	4.997	4.997	0.0528				
SD:	0.006	0.006	0.0001				
%RSD:	0.126	0.126	0.13				

QC value within limits for Hg 253.7 Recovery = 99.93%
All analyte(s) passed QC.

Sequence No.: 59
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 3/2/2010 10:18:09
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.031	0.031	0.0000	0.0030	0.0006	10:19:09	Yes
2	0.033	0.033	0.0001	0.0032	0.0007	10:19:45	Yes
Mean:	0.032	0.032	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	5.084	5.084	37.73				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 60
Sample ID: 1202055843|958587|1
Analyst: JXL

Autosampler Location: 52
Date Collected: 3/2/2010 10:20:04
Data Type: Original

Replicate Data: 1202055843|958587|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.028	0.028	-0.0000	0.0029	0.0006	10:21:05	Yes
2	0.032	0.032	0.0000	0.0035	0.0007	10:21:41	Yes
Mean:	0.030	0.030	0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	11.19	11.19	167.05				

Sequence No.: 61
Sample ID: 1202055844|958587|1
Analyst: JXL

Autosampler Location: 53
Date Collected: 3/2/2010 10:22:00
Data Type: Original

Replicate Data: 1202055844|958587|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.176	2.176	0.0228	0.1196	0.0234	10:23:01	Yes
2	2.169	2.169	0.0227	0.1186	0.0233	10:23:36	Yes
Mean:	2.173	2.173	0.0228				
SD:	0.005	0.005	0.0001				
%RSD:	0.228	0.228	0.23				

Sequence No.: 62

Autosampler Location: 54

%RSD: 3.709 3.709 11.51

Sequence No.: 67

Sample ID: 248044003|958587|1

Analyst: JXL

Autosampler Location: 59

Date Collected: 3/2/2010 10:33:34

Data Type: Original

Replicate Data: 248044003|958587|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.037	0.037	0.0001	0.0035	0.0007	10:34:36	Yes
2	0.042	0.042	0.0001	0.0036	0.0008	10:35:11	Yes
Mean:	0.039	0.039	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	8.563	8.563	29.80				

Sequence No.: 68

Sample ID: 248044004|958587|1

Analyst: JXL

Autosampler Location: 60

Date Collected: 3/2/2010 10:35:31

Data Type: Original

Replicate Data: 248044004|958587|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.037	0.037	0.0001	0.0035	0.0007	10:36:32	Yes
2	0.037	0.037	0.0001	0.0031	0.0007	10:37:07	Yes
Mean:	0.037	0.037	0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	0.860	0.860	3.53				

Sequence No.: 69

Sample ID: 248044005|958587|1

Analyst: JXL

Autosampler Location: 61

Date Collected: 3/2/2010 10:37:27

Data Type: Original

Replicate Data: 248044005|958587|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.026	0.026	-0.0000	0.0028	0.0006	10:38:29	Yes
2	0.029	0.029	0.0000	0.0030	0.0006	10:39:04	Yes
Mean:	0.027	0.027	-0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	7.669	7.669	260.52				

Sequence No.: 70

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 3/2/2010 10:39:24

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.079	5.079	0.0536	0.2761	0.0542	10:40:25	Yes
2	5.044	5.044	0.0533	0.2727	0.0539	10:41:00	Yes
Mean:	5.061	5.061	0.0534				
SD:	0.025	0.025	0.0003				
%RSD:	0.487	0.487	0.49				

QC value within limits for Hg 253.7 Recovery = 101.22%
All analyte(s) passed QC.

Sequence No.: 71

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/2/2010 10:41:19

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.032	0.032	0.0000	0.0028	0.0006	10:42:20	Yes
2	0.037	0.037	0.0001	0.0037	0.0007	10:42:55	Yes
Mean:	0.034	0.034	0.0001				
SD:	0.004	0.004	0.0000				
%RSD:	10.27	10.27	56.74				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 72

Autosampler Location: 62

Sample ID: 248044006|958587|1

Date Collected: 3/2/2010 10:43:14

Analyst: JXL

Data Type: Original

Replicate Data: 248044006|958587|1

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.035	0.035	0.0001	0.0032	0.0007	10:44:16	Yes
2	0.041	0.041	0.0001	0.0037	0.0007	10:44:51	Yes
Mean:	0.038	0.038	0.0001				
SD:	0.004	0.004	0.0000				
%RSD:	10.62	10.62	40.88				

Sequence No.: 73

Autosampler Location: 63

Sample ID: 248127002|958587|1

Date Collected: 3/2/2010 10:45:11

Analyst: JXL

Data Type: Original

Replicate Data: 248127002|958587|1

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.049	0.049	0.0002	0.0042	0.0008	10:46:12	Yes
2	0.049	0.049	0.0002	0.0038	0.0008	10:46:47	Yes
Mean:	0.049	0.049	0.0002				
SD:	0.000	0.000	0.0000				
%RSD:	0.072	0.072	0.17				

Sequence No.: 74

Autosampler Location: 64

Sample ID: 248168006|958587|1

Date Collected: 3/2/2010 10:47:07

Analyst: JXL

Data Type: Original

Replicate Data: 248168006|958587|1

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.032	0.032	0.0000	0.0032	0.0006	10:48:08	Yes
2	0.039	0.039	0.0001	0.0038	0.0007	10:48:43	Yes
Mean:	0.035	0.035	0.0001				
SD:	0.005	0.005	0.0001				
%RSD:	15.15	15.15	72.49				

Sequence No.: 75

Autosampler Location: 65

Sample ID: 248169004|958587|1

Date Collected: 3/2/2010 10:49:03

Analyst: JXL

Data Type: Original

Replicate Data: 248169004|958587|1

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.039	0.039	0.0001	0.0037	0.0007	10:50:04	Yes
2	0.041	0.041	0.0001	0.0036	0.0008	10:50:39	Yes
Mean:	0.040	0.040	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	3.561	3.561	11.62				

Replicate Data: 1202055863|958593|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	26.95	26.95	0.2859	1.4918	0.2865	10:59:45	Yes

Sample concentration is greater than that of the highest standard.

2	26.74	26.74	0.2836	1.4832	0.2842	11:00:20	Yes
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Sample concentration is greater than that of the highest standard.

Mean: 26.85 26.85 0.2847

SD: 0.150 0.150 0.0016

%RSD: 0.559 0.559 0.56

Sample concentration is greater than that of the highest standard.

Sequence No.: 81

Sample ID: 1202055864|958593|5

Analyst: JXL

Autosampler Location: 71

Date Collected: 3/2/2010 11:00:40

Data Type: Original

Replicate Data: 1202055864|958593|5

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.495	5.495	0.0580	0.2982	0.0586	11:01:41	Yes
2	5.466	5.466	0.0577	0.2966	0.0583	11:02:16	Yes

Mean: 5.480 5.480 0.0579

SD: 0.020 0.020 0.0002

%RSD: 0.371 0.371 0.37

Sequence No.: 82

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 3/2/2010 11:02:36

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.006	5.006	0.0528	0.2714	0.0535	11:03:37	Yes
2	5.022	5.022	0.0530	0.2712	0.0536	11:04:12	Yes

Mean: 5.014 5.014 0.0529

SD: 0.011 0.011 0.0001

%RSD: 0.227 0.227 0.23

QC value within limits for Hg 253.7 Recovery = 100.27%

All analyte(s) passed QC.

Sequence No.: 83

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/2/2010 11:04:31

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.033	0.033	0.0001	0.0031	0.0007	11:05:31	Yes
2	0.048	0.048	0.0002	0.0040	0.0008	11:06:06	Yes

Mean: 0.040 0.040 0.0001

SD: 0.010 0.010 0.0001

%RSD: 26.02 26.02 85.60

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 84

Sample ID: 247958002|958593|1

Analyst: JXL

Autosampler Location: 72

Date Collected: 3/2/2010 11:06:25

Data Type: Original

Replicate Data: 247958002|958593|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.063	0.063	0.0004	0.0052	0.0010	11:07:27	Yes

Sequence No.: 94
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 3/2/2010 11:25:50
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.218	5.218	0.0551	0.2817	0.0557	11:26:50	Yes
2	5.211	5.211	0.0550	0.2791	0.0556	11:27:25	Yes
Mean:	5.214	5.214	0.0551				
SD:	0.005	0.005	0.0001				
%RSD:	0.095	0.095	0.10				

QC value within limits for Hg 253.7 Recovery = 104.29%
All analyte(s) passed QC.

Sequence No.: 95
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 3/2/2010 11:27:44
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.029	0.029	0.0000	0.0027	0.0006	11:28:45	Yes
2	0.038	0.038	0.0001	0.0032	0.0007	11:29:20	Yes
Mean:	0.033	0.033	0.0001				
SD:	0.006	0.006	0.0001				
%RSD:	19.42	19.42	124.89				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 96
Sample ID: 248026001|958951|1
Analyst: JXL

Autosampler Location: 82
Date Collected: 3/2/2010 11:29:40
Data Type: Original

Replicate Data: 248026001|958951|1

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.036	0.036	0.0001	0.0035	0.0007	11:30:41	Yes
2	0.037	0.037	0.0001	0.0031	0.0007	11:31:16	Yes
Mean:	0.036	0.036	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	1.939	1.939	8.63				

Sequence No.: 97
Sample ID: 248032001|958951|1
Analyst: JXL

Autosampler Location: 83
Date Collected: 3/2/2010 11:31:36
Data Type: Original

Replicate Data: 248032001|958951|1

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.028	0.028	-0.0000	0.0029	0.0006	11:32:37	Yes
2	0.031	0.031	0.0000	0.0032	0.0006	11:33:12	Yes
Mean:	0.030	0.030	0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	8.573	8.573	152.05				

Sequence No.: 98
Sample ID: 248034001|958951|1
Analyst: JXL

Autosampler Location: 84
Date Collected: 3/2/2010 11:33:32
Data Type: Original

Sample ID: 248046002|958951|1
Analyst: JXL

Date Collected: 3/2/2010 11:43:16
Data Type: Original

Replicate Data: 248046002|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.025	0.025	-0.0000	0.0028	0.0006	11:44:17	Yes
2	0.031	0.031	0.0000	0.0032	0.0006	11:44:52	Yes
Mean:	0.028	0.028	-0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	15.25	15.25	>999.9%				

Sequence No.: 104

Sample ID: 248053001|958951|1
Analyst: JXL

Autosampler Location: 90

Date Collected: 3/2/2010 11:45:12
Data Type: Original

Replicate Data: 248053001|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.028	0.028	0.0000	0.0030	0.0006	11:46:14	Yes
2	0.031	0.031	0.0000	0.0030	0.0006	11:46:49	Yes
Mean:	0.029	0.029	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	5.471	5.471	107.18				

Sequence No.: 105

Sample ID: 248053002|958951|1
Analyst: JXL

Autosampler Location: 91

Date Collected: 3/2/2010 11:47:10
Data Type: Original

Replicate Data: 248053002|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.026	0.026	-0.0000	0.0027	0.0006	11:48:11	Yes
2	0.028	0.028	0.0000	0.0029	0.0006	11:48:46	Yes
Mean:	0.027	0.027	-0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	5.952	5.952	162.46				

Sequence No.: 106

Sample ID: CCV
Analyst:

Autosampler Location: 7

Date Collected: 3/2/2010 11:49:06
Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.948	4.948	0.0522	0.2686	0.0529	11:50:06	Yes
2	4.918	4.918	0.0519	0.2653	0.0525	11:50:41	Yes
Mean:	4.933	4.933	0.0521				
SD:	0.021	0.021	0.0002				
%RSD:	0.435	0.435	0.44				

QC value within limits for Hg 253.7 Recovery = 98.67%
All analyte(s) passed QC.

Sequence No.: 107

Sample ID: CCB
Analyst:

Autosampler Location: 8

Date Collected: 3/2/2010 11:51:00
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.024	0.024	-0.0000	0.0025	0.0006	11:52:01	Yes
2	0.032	0.032	0.0000	0.0029	0.0007	11:52:36	Yes

Mean: 0.028 0.028 -0.0000
SD: 0.006 0.006 0.0001
%RSD: 20.56 20.56 >999.9%

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 108

Autosampler Location: 92

Sample ID: 248053003|958951|1

Date Collected: 3/2/2010 11:52:55

Analyst: JXL

Data Type: Original

Replicate Data: 248053003|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.030	0.030	0.0000	0.0032	0.0006	11:53:57	Yes
2	0.035	0.035	0.0001	0.0036	0.0007	11:54:31	Yes
Mean:	0.032	0.032	0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	11.99	11.99	88.45				

Sequence No.: 109

Autosampler Location: 93

Sample ID: 248108001|958951|1

Date Collected: 3/2/2010 11:54:52

Analyst: JXL

Data Type: Original

Replicate Data: 248108001|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.026	0.026	-0.0000	0.0030	0.0006	11:55:53	Yes
2	0.030	0.030	0.0000	0.0033	0.0006	11:56:28	Yes
Mean:	0.028	0.028	0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	9.111	9.111	>999.9%				

Sequence No.: 110

Autosampler Location: 94

Sample ID: 248117001|958951|1

Date Collected: 3/2/2010 11:56:48

Analyst: JXL

Data Type: Original

Replicate Data: 248117001|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.023	0.023	-0.0000	0.0025	0.0006	11:57:50	Yes
2	0.031	0.031	0.0000	0.0032	0.0006	11:58:25	Yes
Mean:	0.027	0.027	-0.0000				
SD:	0.005	0.005	0.0001				
%RSD:	19.43	19.43	681.10				

Sequence No.: 111

Autosampler Location: 95

Sample ID: 248145001|958951|1

Date Collected: 3/2/2010 11:58:45

Analyst: JXL

Data Type: Original

Replicate Data: 248145001|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.029	0.029	0.0000	0.0032	0.0006	11:59:46	Yes
2	0.027	0.027	-0.0000	0.0029	0.0006	12:00:21	Yes
Mean:	0.028	0.028	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	4.334	4.334	287.89				

Sequence No.: 112

Autosampler Location: 96

Sample ID: 1202056575|958951|1

Date Collected: 3/2/2010 12:00:41

Analyst: JXL

Data Type: Original

Replicate Data: 1202056575|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.024	0.024	-0.0000	0.0028	0.0006	12:01:43	Yes
2	0.032	0.032	0.0000	0.0030	0.0007	12:02:19	Yes
Mean:	0.028	0.028	-0.0000				
SD:	0.006	0.006	0.0001				
%RSD:	20.52	20.52	>999.9%				

Sequence No.: 113

Autosampler Location: 97

Sample ID: 1202056576|958951|1

Date Collected: 3/2/2010 12:02:39

Analyst: JXL

Data Type: Original

Replicate Data: 1202056576|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.290	2.290	0.0240	0.1266	0.0246	12:03:41	Yes
2	2.255	2.255	0.0236	0.1250	0.0243	12:04:16	Yes
Mean:	2.273	2.273	0.0238				
SD:	0.024	0.024	0.0003				
%RSD:	1.063	1.063	1.08				

Sequence No.: 114

Autosampler Location: 98

Sample ID: 1202056577|958951|5

Date Collected: 3/2/2010 12:04:36

Analyst: JXL

Data Type: Original

Replicate Data: 1202056577|958951|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.030	0.030	0.0000	0.0032	0.0006	12:05:38	Yes
2	0.032	0.032	0.0000	0.0031	0.0006	12:06:13	Yes
Mean:	0.031	0.031	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	4.606	4.606	53.00				

Sequence No.: 115

Autosampler Location: 99

Sample ID: 1202056608|958969|1

Date Collected: 3/2/2010 12:06:33

Analyst: JXL

Data Type: Original

Replicate Data: 1202056608|958969|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.025	0.025	-0.0000	0.0030	0.0006	12:07:35	Yes
2	0.023	0.023	-0.0000	0.0027	0.0006	12:08:10	Yes
Mean:	0.024	0.024	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	4.800	4.800	32.24				

Sequence No.: 116

Autosampler Location: 100

Sample ID: 1202056609|958969|1

Date Collected: 3/2/2010 12:08:30

Analyst: JXL

Data Type: Original

Replicate Data: 1202056609|958969|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.265	2.265	0.0237	0.1245	0.0244	12:09:32	Yes
2	2.262	2.262	0.0237	0.1229	0.0243	12:10:08	Yes
Mean:	2.263	2.263	0.0237				
SD:	0.002	0.002	0.0000				
%RSD:	0.077	0.077	0.08				

Sequence No.: 117
Sample ID: 248162001|958969|1
Analyst: JXL

Autosampler Location: 101
Date Collected: 3/2/2010 12:10:28
Data Type: Original

Replicate Data: 248162001|958969|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.027	0.027	-0.0000	0.0030	0.0006	12:11:30	Yes
2	0.030	0.030	0.0000	0.0030	0.0006	12:12:05	Yes
Mean:	0.028	0.028	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	5.485	5.485	294.70				

Sequence No.: 118
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 3/2/2010 12:12:25
Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.004	5.004	0.0528	0.2717	0.0534	12:13:26	Yes
2	5.010	5.010	0.0529	0.2692	0.0535	12:14:01	Yes
Mean:	5.007	5.007	0.0529				
SD:	0.004	0.004	0.0000				
%RSD:	0.080	0.080	0.08				

QC value within limits for Hg 253.7 Recovery = 100.14%
All analyte(s) passed QC.

Sequence No.: 119
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 3/2/2010 12:14:20
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.030	0.030	0.0000	0.0031	0.0006	12:15:21	Yes
2	0.038	0.038	0.0001	0.0035	0.0007	12:15:56	Yes
Mean:	0.034	0.034	0.0001				
SD:	0.005	0.005	0.0001				
%RSD:	15.64	15.64	89.85				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 120
Sample ID: 248162002|958969|1
Analyst: JXL

Autosampler Location: 102
Date Collected: 3/2/2010 12:16:15
Data Type: Original

Replicate Data: 248162002|958969|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.024	0.024	-0.0000	0.0026	0.0006	12:17:17	Yes
2	0.032	0.032	0.0000	0.0031	0.0006	12:17:52	Yes
Mean:	0.028	0.028	-0.0000				
SD:	0.005	0.005	0.0001				
%RSD:	18.16	18.16	>999.9%				

Sequence No.: 121
Sample ID: 248162003|958969|1
Analyst: JXL

Autosampler Location: 103
Date Collected: 3/2/2010 12:18:12
Data Type: Original

Replicate Data: 248162003|958969|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
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Replicate Data: 248199001|958969|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.032	0.032	0.0000	0.0031	0.0006	12:29:01	Yes
2	0.035	0.035	0.0001	0.0033	0.0007	12:29:36	Yes
Mean:	0.033	0.033	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	7.598	7.598	46.83				

=====

Sequence No.: 127	Autosampler Location: 109
Sample ID: 248238001|958969|1	Date Collected: 3/2/2010 12:29:57
Analyst: JXL	Data Type: Original

Replicate Data: 248238001|958969|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.027	0.027	-0.0000	0.0030	0.0006	12:30:59	Yes
2	0.028	0.028	0.0000	0.0029	0.0006	12:31:33	Yes
Mean:	0.028	0.028	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	4.222	4.222	268.59				

=====

Sequence No.: 128	Autosampler Location: 110
Sample ID: 248238002|958969|1	Date Collected: 3/2/2010 12:31:54
Analyst: JXL	Data Type: Original

Replicate Data: 248238002|958969|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.023	0.023	-0.0001	0.0025	0.0006	12:32:56	Yes
2	0.029	0.029	0.0000	0.0031	0.0006	12:33:31	Yes
Mean:	0.026	0.026	-0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	16.09	16.09	214.23				

=====

Sequence No.: 129	Autosampler Location: 111
Sample ID: 248242001|958969|1	Date Collected: 3/2/2010 12:33:51
Analyst: JXL	Data Type: Original

Replicate Data: 248242001|958969|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.024	0.024	-0.0000	0.0025	0.0006	12:34:53	Yes
2	0.026	0.026	-0.0000	0.0027	0.0006	12:35:28	Yes
Mean:	0.025	0.025	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	3.471	3.471	29.15				

=====

Sequence No.: 130	Autosampler Location: 7
Sample ID: CCV	Date Collected: 3/2/2010 12:35:49
Analyst:	Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.971	4.971	0.0525	0.2714	0.0531	12:36:49	Yes
2	4.945	4.945	0.0522	0.2672	0.0528	12:37:24	Yes
Mean:	4.958	4.958	0.0523				
SD:	0.018	0.018	0.0002				
%RSD:	0.369	0.369	0.37				

QC value within limits for Hg 253.7 Recovery = 99.16%

All analyte(s) passed QC.

Sequence No.: 131

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/2/2010 12:37:43

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.033	0.033	0.0001	0.0031	0.0007	12:38:44	Yes
2	0.038	0.038	0.0001	0.0033	0.0007	12:39:19	Yes
Mean:	0.035	0.035	0.0001				
SD:	0.004	0.004	0.0000				
%RSD:	10.25	10.25	48.76				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 132

Sample ID: 248245001|958969|1

Analyst: JXL

Autosampler Location: 112

Date Collected: 3/2/2010 12:39:39

Data Type: Original

Replicate Data: 248245001|958969|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.026	0.026	-0.0000	0.0027	0.0006	12:40:41	Yes
2	0.027	0.027	-0.0000	0.0028	0.0006	12:41:16	Yes
Mean:	0.026	0.026	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	3.345	3.345	60.45				

Sequence No.: 133

Sample ID: 248257001|958969|1

Analyst: JXL

Autosampler Location: 113

Date Collected: 3/2/2010 12:41:37

Data Type: Original

Replicate Data: 248257001|958969|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.023	0.023	-0.0001	0.0026	0.0006	12:42:39	Yes
2	0.023	0.023	-0.0001	0.0024	0.0006	12:43:14	Yes
Mean:	0.023	0.023	-0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	1.017	1.017	4.51				

Sequence No.: 134

Sample ID: 1202056610|958969|1

Analyst: JXL

Autosampler Location: 114

Date Collected: 3/2/2010 12:43:34

Data Type: Original

Replicate Data: 1202056610|958969|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.023	0.023	-0.0000	0.0026	0.0006	12:44:36	Yes
2	0.028	0.028	0.0000	0.0028	0.0006	12:45:12	Yes
Mean:	0.026	0.026	-0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	13.38	13.38	174.62				

Sequence No.: 135

Sample ID: 1202056611|958969|1

Analyst: JXL

Autosampler Location: 115

Date Collected: 3/2/2010 12:45:32

Data Type: Original

Replicate Data: 1202056611|958969|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.310	2.310	0.0242	0.1274	0.0248	12:46:35	Yes
2	2.305	2.305	0.0242	0.1264	0.0248	12:47:09	Yes
Mean:	2.307	2.307	0.0242				
SD:	0.004	0.004	0.0000				
%RSD:	0.171	0.171	0.17				

Sequence No.: 136

Autosampler Location: 116

Sample ID: 1202056612|958969|5

Date Collected: 3/2/2010 12:47:30

Analyst: JXL

Data Type: Original

Replicate Data: 1202056612|958969|5

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.028	0.028	0.0000	0.0030	0.0006	12:48:32	Yes
2	0.031	0.031	0.0000	0.0031	0.0006	12:49:07	Yes
Mean:	0.030	0.030	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	5.951	5.951	104.22				

Sequence No.: 137

Autosampler Location: 117

Sample ID: 248257002|958969|1

Date Collected: 3/2/2010 12:49:28

Analyst: JXL

Data Type: Original

Replicate Data: 248257002|958969|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.028	0.028	0.0000	0.0030	0.0006	12:50:30	Yes
2	0.027	0.027	-0.0000	0.0027	0.0006	12:51:05	Yes
Mean:	0.027	0.027	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	3.072	3.072	153.82				

Sequence No.: 138

Autosampler Location: 118

Sample ID: 1202056518|958922|1

Date Collected: 3/2/2010 12:51:25

Analyst: JXL

Data Type: Original

Replicate Data: 1202056518|958922|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.024	0.024	-0.0000	0.0026	0.0006	12:52:27	Yes
2	0.028	0.028	-0.0000	0.0028	0.0006	12:53:02	Yes
Mean:	0.026	0.026	-0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	8.924	8.924	119.08				

Sequence No.: 139

Autosampler Location: 119

Sample ID: 1202056519|958922|1

Date Collected: 3/2/2010 12:53:23

Analyst: JXL

Data Type: Original

Replicate Data: 1202056519|958922|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.370	2.370	0.0249	0.1300	0.0255	12:54:25	Yes
2	2.364	2.364	0.0248	0.1296	0.0254	12:55:00	Yes
Mean:	2.367	2.367	0.0248				
SD:	0.004	0.004	0.0000				
%RSD:	0.171	0.171	0.17				

Sequence No.: 140

Autosampler Location: 120

Sample ID: 246839001|958922|1

Date Collected: 3/2/2010 12:55:21

Analyst: JXL

Data Type: Original

Replicate Data: 246839001|958922|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.097	0.097	0.0007	0.0079	0.0013	12:56:23	Yes
2	0.077	0.077	0.0005	0.0059	0.0011	12:56:58	Yes
Mean:	0.087	0.087	0.0006				
SD:	0.014	0.014	0.0001				
%RSD:	16.18	16.18	23.82				

Sequence No.: 141

Autosampler Location: 121

Sample ID: 1202056520|958922|1

Date Collected: 3/2/2010 12:57:18

Analyst: JXL

Data Type: Original

Replicate Data: 1202056520|958922|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.075	0.075	0.0005	0.0061	0.0011	12:58:20	Yes
2	0.073	0.073	0.0005	0.0057	0.0011	12:58:56	Yes
Mean:	0.074	0.074	0.0005				
SD:	0.001	0.001	0.0000				
%RSD:	1.776	1.776	2.85				

Sequence No.: 142

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/2/2010 12:59:16

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.084	5.084	0.0537	0.2781	0.0543	13:00:17	Yes
2	5.041	5.041	0.0532	0.2763	0.0538	13:00:51	Yes
Mean:	5.063	5.063	0.0535				
SD:	0.030	0.030	0.0003				
%RSD:	0.595	0.595	0.60				

QC value within limits for Hg 253.7 Recovery = 101.25%

All analyte(s) passed QC.

Sequence No.: 143

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/2/2010 13:01:10

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.030	0.030	0.0000	0.0029	0.0006	13:02:11	Yes
2	0.046	0.046	0.0002	0.0041	0.0008	13:02:46	Yes
Mean:	0.038	0.038	0.0001				
SD:	0.011	0.011	0.0001				
%RSD:	29.63	29.63	111.17				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 144

Autosampler Location: 122

Sample ID: 1202056521|958922|1

Date Collected: 3/2/2010 13:03:05

Analyst: JXL

Data Type: Original

Replicate Data: 1202056521|958922|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.930	1.930	0.0202	0.1151	0.0208	13:04:08	Yes

Miscellaneous

Prep Logbook

Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Batch ID: 958967.0
Analyst: Tara Griffin
Method: SW846 7470A Prep
Lab SOP: GL-MA-E-010 REV# 23
Instrument: No analytical instrument

Verified by:

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check	Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
1202056608 MB	01-MAR-2010 12:20:00	Water	20	20	1	<2	LCS	1202056609	Mercury working intermediate standard for LCS/MS	WHG100301-13	.2	mL
1202056609 LCS	01-MAR-2010 12:20:00	Water	20	20	1	<2	MS	1202056611	Mercury working intermediate standard for LCS/MS	WHG100301-13	.2	mL
248162001	01-MAR-2010 12:20:00	Water	20	20	1	<2						
248162002	01-MAR-2010 12:20:00	Water	20	20	1	<2						
248162003	01-MAR-2010 12:20:00	Water	20	20	1	<2						
248162004	01-MAR-2010 12:20:00	Water	20	20	1	<2						
248172001	01-MAR-2010 12:20:00	Water	20	20	1	<2						
248173001	01-MAR-2010 12:20:00	Water	20	20	1	<2						
248188001	01-MAR-2010 12:20:00	Water	20	20	1	<2						
248199001	01-MAR-2010 12:20:00	Water	20	20	1	<2						
248238001	01-MAR-2010 12:20:00	Water	20	20	1	<2						
248238002	01-MAR-2010 12:20:00	Water	20	20	1	<2						
248242001	01-MAR-2010 12:20:00	Water	20	20	1	<2						
248245001	01-MAR-2010 12:20:00	Water	20	20	1	<2						
248257001	01-MAR-2010 12:20:00	Water	20	20	1	<2						
1202056610 DUP (248257001)	01-MAR-2010 12:20:00	Water	20	20	1	<2						
1202056611 MS (248257001)	01-MAR-2010 12:20:00	Water	20	20	1	<2						
1202056612 SDILT (248257001)	01-MAR-2010 12:20:00	Water	20	20	1	<2						
248257002	01-MAR-2010 12:20:00	Water	20	20	1	<2						

Reagent/Solvent Lot ID	Description	Amount	Comments:
1176183	Sulfuric Acid, Concentrated	1 mL	Digestion Start Date: 01-MAR-10 12:20
1255532-C	Hg reducing agent	1 mL	Digestion End Date: 01-MAR-10 14:20
1274391-I	NITRIC ACID	.5 mL	
1274397-C	5% KMnO4 solution	3 mL	
1276435-C	5% Potassium Persulfate	1.5 mL	
WHG100301-01a	Mercury Working 1st Source CAL 0.2/CRA	20 uL	

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GEL Laboratories LLC

Prep Logbook

Acid Digestion of Total Recoverable or Dissolved Metals in Surface and Groundwater Samples for Analysis by ICP or ICP-MS

Batch ID: 959140.0
Analyst: Louis Hall
Method: SW846 3005A
Lab SOP: GL-MA-E-006 REV# 9
Instrument: Metals Manual Instrument

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202056958	Metals Spike Mix I	U11268741-01	.25	mL
LCS	1202056958	Metals Spike Mix II	U11268744-06	.25	mL
MS	1202056960	Metals Spike Mix I	U11268741-01	.25	mL
MS	1202056960	Metals Spike Mix II	U11268744-06	.25	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202056957 MB	11-MAR-2010 10:00:00	Water	50	50	1	<2
1202056958 LCS	11-MAR-2010 10:00:00	Water	50	50	1	<2
248242001	11-MAR-2010 10:00:00	Water	50	50	1	<2
248245001	11-MAR-2010 10:00:00	Water	50	50	1	<2
248257001	11-MAR-2010 10:00:00	Water	50	50	1	<2
1202056959 DUP (248257001)	11-MAR-2010 10:00:00	Water	50	50	1	<2
1202056960 MS (248257001)	11-MAR-2010 10:00:00	Water	50	50	1	<2
1202056961 SDILT (248257001)	11-MAR-2010 10:00:00	Water	50	50	1	<2
248257002	11-MAR-2010 10:00:00	Water	50	50	1	<2

Reagent/Solvent Lot ID	Description	Amount	Comments:
1277916	HYDROCHLORIC ACID	2.5 mL	
1277919	Nitric Acid CONC.	1 mL	

Prep Logbook

Acid Digestion of Total Recoverable or Dissolved Metals in Surface and Groundwater Samples for Analysis by ICP or ICP-MS

Batch ID: 959142.0
 Analyst: Louis Hall
 Method: SW846 3005A
 Lab SOP: GL-MA-E-006 REV# 9
 Instrument: Metals Manual Instrument

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202056963	ICP-MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution A)	U11268746-A	.5	mL
LCS	1202056963	MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution B)	U11268749-B	.5	mL
MS	1202056965	ICP-MS DOE liquid Spike Solution A	U1090930-A	.5	mL
MS	1202056965	ICP-MS DOE Liquid Spike Solution B	U1090930-B	.5	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202056962 MB	11-MAR-2010 10:00:00	Water	50	50	1	<2
1202056963 LCS	11-MAR-2010 10:00:00	Water	50	50	1	<2
248242001	11-MAR-2010 10:00:00	Water	50	50	1	<2
248245001	11-MAR-2010 10:00:00	Water	50	50	1	<2
248257001	11-MAR-2010 10:00:00	Water	50	50	1	<2
1202056964 DUP (248257001)	11-MAR-2010 10:00:00	Water	50	50	1	<2
1202056965 MS (248257001)	11-MAR-2010 10:00:00	Water	50	50	1	<2
1202056966 SDILT (248257001)	11-MAR-2010 10:00:00	Water	50	50	1	<2
248257002	11-MAR-2010 10:00:00	Water	50	50	1	<2

Reagent/Solvent Lot ID	Description	Amount	Comments:
1277916	HYDROCHLORIC ACID	2.5 mL	
1277919	Nitric Acid CONC.	1 mL	

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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: 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

Standard Logbook

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		

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: O2SI
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: O2SI
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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
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: 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

Standard Logbook

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
Vanadium	100 mg/L	Zinc	100 mg/L

Serial ID: UI090930-A **Opened:** 30-SEP-09 **Catalog Number :** 160067-02
Name: ICP-MS DOE Liquid SPIKE **Received:** 28-SEP-09 **Lot Number :** 1017141
Type: Source Material **Expires:** 30-SEP-10
Employee: Francena Armstrong **Verified:** 21-NOV-08
Supplier: O2Si
Description: ICP-MS DOE liquid Spike Solution A
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	4 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	Silicon	200 mg/L
Sodium	200 mg/L	Strontium	5 mg/L
Thallium	10 mg/L	Thorium	5 mg/L
Total Uranium	5 mg/L	Uranium	5 mg/L
Uranium-235	.0364 mg/L	Uranium-238	4.96 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Standard Logbook

Serial ID: UI090930-B **Opened:** 30-SEP-09 **Catalog Number :** 160067-02
Name: ICP-MS DOE Liquid SPIKE **Received:** 28-SEP-09 **Lot Number :** 1017141
Type: Source Material **Expires:** 30-SEP-10
Employee: Francena Armstrong **Verified:** 21-NOV-08
Supplier: O2Si
Description: ICP-MS DOE Liquid Spike Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	5 mg/L
Silver	5 mg/L	Tin	5 mg/L
Titanium	5 mg/L	Zirconium	5 mg/L

Serial ID: UI091015-42 **Opened:** 28-OCT-09 **Amount :** 500 mL
Name: SI 1000mg/L **Received:** 15-OCT-09 **Catalog Number :** 060014-02-03
Type: Source Material **Expires:** 28-OCT-10 **Lot Number :** 1017581
Employee: Helen Camello **Solvent :** 0.3%H2O(NH4)2SiF6
Supplier: o2si
Description: Silicon 1000mg/L +/- 0.3% in H2O(NH4)2SiF6
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091102-40 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1A SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-1-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930215
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Std #1A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2000 mg/L	Arsenic	200 mg/L
Barium	200 mg/L	Beryllium	200 mg/L
Boron	200 mg/L	Cadmium	200 mg/L
Calcium	2000 mg/L	Chromium	200 mg/L
Cobalt	200 mg/L	Copper	200 mg/L
Iron	2000 mg/L	Lead	200 mg/L
Magnesium	2000 mg/L	Manganese	200 mg/L
Nickel	200 mg/L	Phosphorous	1000 mg/L
Potassium	2000 mg/L	Selenium	200 mg/L
Sodium	2000 mg/L	Strontium	200 mg/L
Thallium	200 mg/L	Uranium	200 mg/L
Vanadium	200 mg/L	Zinc	200 mg/L

Standard Logbook

Serial ID: UI091102-41 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1B SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-2-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930216
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Standard #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
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 ICSEA **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 ICSEAB **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 Interferent Check Standard AB
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Antimony	500 ug/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Arsenic	500 ug/L	Barium	500 ug/L
Beryllium	250 ug/L	Boron	500 ug/L
Cadmium	500 ug/L	Calcium	500000 ug/L
Chromium	500 ug/L	Cobalt	500 ug/L
Copper	500 ug/L	Iron	200000 ug/L
Lead	500 ug/L	Magnesium	500000 ug/L
Manganese	500 ug/L	Molybdenum	500 ug/L
Nickel	500 ug/L	Phosphorous	2500 ug/L
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 IGV/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 IGV/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 IGV/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 IGV/CCV Soln B - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	20 mg/L	Barium	20 mg/L
Beryllium	20 mg/L	Boron	40 mg/L
Cadmium	20 mg/L	Chromium	20 mg/L
Cobalt	20 mg/L	Copper	20 mg/L
Lead	20 mg/L	Lithium	20 mg/L
Manganese	20 mg/L	Nickel	20 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Selenium	20 mg/L	Strontium	20 mg/L
Thallium	20 mg/L	Thorium	20 mg/L
Uranium	20 mg/L	Vanadium	20 mg/L
Zinc	20 mg/L		

Serial ID: 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:** 15-APR-10 **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
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Standard Logbook

Analyte	Concentration	Analyte	Concentration
Antimony	10000 ug/L	Arsenic	10000 ug/L
Barium	15000 ug/L	Beryllium	3000 ug/L
Boron	5000 ug/L	Cadmium	10000 ug/L
Chromium	25000 ug/L	Cobalt	10000 ug/L
Copper	20000 ug/L	Lead	25000 ug/L
Manganese	10000 ug/L	Molybdenum	10000 ug/L
Nickel	10000 ug/L	Phosphorous	15000 ug/L
Potassium	300000 ug/L	Selenium	10000 ug/L
Silica	107000 ug/L	Silicon	50000 ug/L
Silver	1000 ug/L	Strontium	10000 ug/L
Sulfur	50000 ug/L	Thallium	10000 ug/L
Tin	10000 ug/L	Titanium	10000 ug/L
Vanadium	10000 ug/L	Zinc	15000 ug/L

Serial ID: 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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Zinc	2 mg/L		

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: O2SI
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: UI100405-60 **Opened:** 05-APR-10 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 05-APR-10 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019464
Employee: Paul Boyd **Solvent :** 2%HNO3 + Tr HF
Supplier: O2SI
Description: Linear Range Standard A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Arsenic	100 mg/L
Barium	250 mg/L	Beryllium	100 mg/L
Cadmium	100 mg/L	Calcium	5000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	5000 mg/L
Lead	500 mg/L	Lithium	100 mg/L
Magnesium	5000 mg/L	Manganese	100 mg/L
Nickel	100 mg/L	Phosphorous	2500 mg/L
Potassium	5000 mg/L	Selenium	50 mg/L
Sodium	5000 mg/L	Strontium	100 mg/L
Thallium	50 mg/L	Thorium	250 mg/L
Uranium	500 mg/L	Vanadium	100 mg/L
Zinc	250 mg/L		

Serial ID: UI100405-61 **Opened:** 05-APR-10 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 05-APR-10 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019464
Employee: Paul Boyd **Solvent :** 2%HNO3 + Tr HF
Supplier: O2SI
Description: Linear Range Standard B

Standard Logbook

Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	25 mg/L	Molybdenum	100 mg/L
Silver	25 mg/L	Tin	100 mg/L
Tungsten	100 mg/L	Zirconium	50 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
Titanium	100 ug/mL	Uranium	100 ug/mL
Uranium-235	.72 ug/mL	Uranium-238	99.28 ug/mL
Vanadium	100 ug/mL	Zinc	100 ug/mL

Standard Logbook

Serial ID: UI1268746-A **Opened:** 11-FEB-10 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 11-FEB-10 **Lot Number :** 1018516
Type: Source Material **Expires:** 11-FEB-11
Employee: Bryan Davis
Supplier: O2si
Description: ICP-MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution A).
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	5 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Bismuth	5 mg/L	Boron	10 mg/L
Cadmium	5 mg/L	Calcium	200 mg/L
Cesium	5 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	5 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorous	200 mg/L	Potassium	200 mg/L
Selenium	5 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	5 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

Serial ID: UI1268749-B **Opened:** 11-FEB-10 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 11-FEB-10 **Lot Number :** 1018516
Type: Source Material **Expires:** 11-FEB-11
Employee: Bryan Davis
Supplier: O2si
Description: MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution B).
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	5 mg/L	Molybdenum	5 mg/L
Silver	5 mg/L	Tin	5 mg/L
Titanium	5 mg/L	Zirconium	5 mg/L

Serial ID: UMS100226-01 **Opened:** 26-FEB-10 **Amount :** 250 mL
Name: ICPMSCalSPIKEB **Received:** 26-FEB-10 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-104JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution B
Comments: None

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Arsenic	10 mg/L	Barium	10 mg/L
Beryllium	10 mg/L	Boron	20 mg/L
Cadmium	10 mg/L	Chromium	10 mg/L
Cobalt	10 mg/L	Copper	10 mg/L
Lead	10 mg/L	Lithium	10 mg/L
Manganese	10 mg/L	Nickel	10 mg/L
Selenium	10 mg/L	Silver	10 mg/L
Strontium	10 mg/L	Thallium	10 mg/L
Thorium	10 mg/L	Uranium	10 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UMS100226-02 **Opened:** 26-FEB-10 **Catalog Number :** ZGEL-102-250
Name: ICPMSCalSPIKEA **Received:** 26-FEB-10 **Lot Number :** 21-103JB
Type: Source Material **Expires:** 26-FEB-11
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Phosphorous	1000 mg/L	Potassium	1000 mg/L
Sodium	1000 mg/L		

Serial ID: UMS100226-03 **Opened:** 26-FEB-10 **Amount :** 250 ml
Name: ICPMSCalSPIKEC **Received:** 26-FEB-10 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-102JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10 mg/L	Molybdenum	10 mg/L
Tin	10 mg/L	Titanium	10 mg/L
Zirconium	10 mg/L		

Serial ID: IHG100301-01 **Opened:** 01-MAR-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 01-MAR-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 02-MAR-10 **Solvent :** 1mL HNO3 + Typel H2O
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 1st Source 200 ug/L

Standard Logbook

Comments: Prepare fresh daily

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: IHG100301-02 Opened: 01-MAR-10 Pipet Id : Minou1
 Name: MHGINTER2 Received: 01-MAR-10 Solvent : 2% HNO3-1274391
 Type: Intermediate Expires: 02-MAR-10
 Employee: Tara Griffin
 Supplier: GEL
 Description: Mercury Intermediate 2nd Source 200 ug/L
 Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UHG1167641-02	Mercury	999.7 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: WHG100301-01a Opened: 01-MAR-10 Pipet Id : Hg1289245
 Name: MHGWORKCAL0.2CRA Received: 01-MAR-10 Solvent : 2% HNO3-1274391
 Type: Working Expires: 08-MAR-10
 Employee: Tara Griffin
 Supplier: GEL
 Description: Mercury Working 1st Source CAL 0.2/CRA
 Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
IHG100301-01	Mercury	200 ug/L	20 uL	20 mL	.2 ug/L

Serial ID: WHG100301-02 Opened: 01-MAR-10 Pipet Id : Hg1289245
 Name: MHGWORKCAL0.5 Received: 01-MAR-10 Solvent : 2% HNO3-1274391
 Type: Working Expires: 08-MAR-10
 Employee: Tara Griffin
 Supplier: GEL
 Description: Mercury Working 1st Source CAL 0.5
 Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
IHG100301-01	Mercury	200 ug/L	50 uL	20 mL	.5 ug/L

Serial ID: WHG100301-03 Opened: 01-MAR-10 Pipet Id : Hg1289245
 Name: MHGWORKCAL2.0 Received: 01-MAR-10 Solvent : 2% HNO3-1274391
 Type: Working Expires: 08-MAR-10
 Employee: Tara Griffin Verified: 20-JUL-07
 Supplier: GEL
 Description: Mercury Working 1st Source CAL 2.0
 Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100301-01	Mercury	200 ug/L	200 uL	20 mL	2 ug/L

Serial ID: WHG100301-04 **Opened:** 01-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL5.0CCV **Received:** 01-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 08-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 1st Source CAL 5.0/CCV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100301-01	Mercury	200 ug/L	500 uL	20 mL	5 ug/L

Serial ID: WHG100301-05 **Opened:** 01-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL10.0 **Received:** 01-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 08-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 1st Source CAL 10.0
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100301-01	Mercury	200 ug/L	1 mL	20 mL	10 ug/L

Serial ID: WHG100301-06 **Opened:** 01-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORK5.0ICV **Received:** 01-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 08-MAR-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Working 2nd Source 5.0/ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100301-02	Mercury	200 ug/L	500 uL	20 mL	5 ug/L

Serial ID: WHG100301-13 **Opened:** 01-MAR-10 **Pipet Id :** Hg1289245
Name: MHG1QLCSMSSPIKE **Received:** 01-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 08-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury working intermediate standard for LCS/MS
Comments: None

Standard Logbook

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: 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
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

Standard Logbook

Serial ID: W100331-43 **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
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

Standard Logbook

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.	Allquot	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
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

Standard Logbook

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.	Allquot	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.	Allquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Antimony	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Beryllium	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Magnesium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-41	Manganese	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Molybdenum	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Nickel	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Silver	50 mg/L	2.5 mL	500 mL	250 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
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.	Alliquot	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
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100411-04 **Opened:** 11-APR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 11-APR-10 **Balance Id :** 4025216
Type: Working **Expires:** 12-APR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1296562
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100226-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS100226-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100411-04A **Opened:** 11-APR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 11-APR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 12-APR-10 **Solvent :** 2%HNO3/1%HCl - 1296562
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100411-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100411-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100411-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100411-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100411-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100411-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100411-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100411-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100411-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100411-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100411-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: <u>WMS100411-05</u>	Opened: <u>11-APR-10</u>	Balance Id : <u>40245216</u>
Name: <u>ICPMS ICV</u>	Received: <u>11-APR-10</u>	Pipet Id : <u>3541598</u>
Type: <u>Working</u>	Expires: <u>12-APR-10</u>	Solvent : <u>2%HNQ3/1%HCl - 1296562</u>
Employee: <u>Paul Boyd</u>		
Supplier: <u>GEL</u>		
Description: <u>ICPMS ICV</u>		
Comments: <u>None</u>		

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
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

Standard Logbook

Serial ID: WMS100411-06 **Opened:** 11-APR-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 11-APR-10 **Pipet Id :** 3820544
Type: Working **Expires:** 12-APR-10 **Solvent :** 2%HNO3/1%HCl - 1296562
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Standard Logbook

Serial ID: WMS100411-07 **Opened:** 11-APR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 11-APR-10 **Lot Number :** 1010773
Type: Working **Expires:** 12-APR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1296562
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: WMS100411-08 **Opened:** 11-APR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 11-APR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 12-APR-10 **Solvent :** 2%HNO3/1%HCl - 1296562
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
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100411-70 **Opened:** 11-APR-10 **Balance Id :** 40245216
Name: ICPMS LINEAR RANGE ST **Received:** 11-APR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 12-APR-10 **Solvent :** 2%HNO3/1%HCl - 1296562
Employee: Paul Boyd
Supplier: 02SI
Description: ICPMS LINEAR RANGE STANDARD
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100405-60	Aluminum	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Arsenic	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Barium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100405-60	Beryllium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Cadmium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Calcium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Chromium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Cobalt	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Copper	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Iron	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Lead	500 mg/L	.5 mL	50 mL	5000 ug/L
UI100405-60	Lithium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Magnesium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Manganese	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Nickel	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Phosphorous	2500 mg/L	.5 mL	50 mL	25000 ug/L
UI100405-60	Potassium	5000 mg/L	.5 mL	50 mL	50000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100405-60	Selenium	50 mg/L	.5 mL	50 mL	500 ug/L
UI100405-60	Sodium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Strontium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Thallium	50 mg/L	.5 mL	50 mL	500 ug/L
UI100405-60	Thorium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100405-60	Uranium	500 mg/L	.5 mL	50 mL	5000 ug/L
UI100405-60	Vanadium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Zinc	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100405-61	Antimony	25 mg/L	.5 mL	50 mL	250 ug/L
UI100405-61	Molybdenum	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-61	Silver	25 mg/L	.5 mL	50 mL	250 ug/L
UI100405-61	Tin	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-61	Tungsten	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-61	Zirconium	50 mg/L	.5 mL	50 mL	500 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 **Expires:** 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: 1176183 **Opened:** 24-AUG-09 **Lot Number :** H20001
Name: B-H2SO4-MER **Received:** 24-AUG-09
Type: Reagent/Solvent **Expires:** 24-AUG-10
Employee: Tara Griffin
Supplier: Mallinckrodt
Description: Sulfuric Acid, Concentrated
Comments: None

Standard Logbook

Serial ID: 1215906 **Opened:** 06-NOV-09 **Lot Number :** H44465
Name: B-K2S2O8S-MER **Received:** 06-NOV-09
Type: Reagent/Solvent **Expires:** 06-NOV-10
Employee: Tara Griffin
Supplier: J.T BAKER
Description: Potassium Persulfate Concentrate.
Comments: None

Serial ID: 1228372-A **Opened:** 12-NOV-09 **Lot Number :** 49215936
Name: B-NH2OH.HCl-MER **Received:** 12-NOV-09
Type: Reagent/Solvent **Expires:** 12-NOV-10
Employee: Tara Griffin
Supplier: Fisher Scientific
Description: Hydroxylamine Hydrochloride
Comments: None

Serial ID: 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: 1274397-C **Opened:** 24-FEB-10 **Balance Id :** BAL-002
Name: B-KMnO4-MER **Received:** 24-FEB-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: 1276435-C Opened: 28-FEB-10 Balance Id : BAL-002
 Name: B-K2S2O8-MER Received: 28-FEB-10
 Type: Reagent/Solvent Expires: 28-AUG-10
 Employee: Tara Griffin
 Supplier: GEL
 Description: 5% Potassium Persulfate
 Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1215906	B-K2S2O8S-MER	N/A	50 g	1000 mL	N/A

Serial ID: 1277916 Opened: 02-MAR-10 Lot Number : J02039
 Name: I-HCL Received: 02-MAR-10 Preservative_Id : 5 none
 Type: Reagent/Solvent Expires: 02-MAR-11
 Employee: Francena Armstrong
 Supplier: J.T. BAKER
 Description: HYDROCHLORIC ACID
 Comments: None

Serial ID: 1277919 Opened: 02-MAR-10 Lot Number : J 04043 L
 Name: I-HNO3 Received: 02-MAR-10
 Type: Reagent/Solvent Expires: 02-MAR-11
 Employee: Francena Armstrong
 Supplier: BAKER
 Description: Nitric Acid CONC.
 Comments: None

Serial ID: 1291278 Opened: 25-MAR-10 Lot Number : J 08035 L
 Name: I-HNO3 Received: 25-MAR-10
 Type: Reagent/Solvent Expires: 25-MAR-11
 Employee: Anthony Green
 Supplier: BAKER
 Description: Nitric Acid CONC.
 Comments: None

Serial ID: 1293083 Opened: 29-MAR-10 Amount : 20 L
 Name: B-ICP-RINSE SOLN Received: 29-MAR-10 Lot Number : H04040+G34050
 Type: Reagent/Solvent Expires: 04-APR-10 Solvent : 3%HCL+1%HNO3
 Employee: Helen Camello
 Supplier: GEL

Standard Logbook

Description: 3%HCL+1%HNO3 RINSE SOLN.

Comments: None

Serial ID: 1296562 Opened: 05-APR-10 Solvent : Type I Water

Name: B-2%HNO3/1%HCl-ICPMS Received: 05-APR-10

Type: Reagent/Solvent Expires: 12-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

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

Metals Analysis

Case Narrative

**Metals Fractional Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2138-1**

Sample Analysis

Sample ID	Client ID
248247001	RE36-10-8464
248247002	RE36-10-8475
248247003	RE36-10-8471
248247004	RE36-10-8485
248247005	RE36-10-8477
248247006	RE36-10-8479
248247007	RE36-10-8484
248247008	RE36-10-8481
1202056979	Method Blank (MB) ICP
1202056984	Laboratory Control Sample (LCS)
1202056981	248247001(RE36-10-8464L) Serial Dilution (SD)
1202056980	248247001(RE36-10-8464D) Sample Duplicate (DUP)
1202056982	248247001(RE36-10-8464S) Matrix Spike (MS)
1202056983	248247001(RE36-10-8464SD) Matrix Spike Duplicate (MSD)
1202056985	Method Blank (MB) ICP-MS
1202056990	Laboratory Control Sample (LCS)
1202056987	248247001(RE36-10-8464L) Serial Dilution (SD)
1202056986	248247001(RE36-10-8464D) Sample Duplicate (DUP)
1202056988	248247001(RE36-10-8464S) Matrix Spike (MS)
1202056989	248247001(RE36-10-8464SD) Matrix Spike Duplicate (MSD)

1202056652	Method Blank (MB) CVAA
1202056653	Laboratory Control Sample (LCS)
1202056656	248256001(RE46-10-13534L) Serial Dilution (SD)
1202056654	248256001(RE46-10-13534D) Sample Duplicate (DUP)
1202056655	248256001(RE46-10-13534S) Matrix Spike (MS)
1202056657	248256001(RE46-10-13534SD) Matrix Spike Duplicate (MSD)

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

Method/Analysis Information

Analytical Batch:	959150, 959152 and 958993
Prep Batch :	959149, 959151 and 958991
Standard Operating Procedures:	GL-MA-E-013 REV# 20, GL-MA-E-009 REV# 19, GL-MA-E-014 REV# 21 and GL-MA-E-010 REV# 23
Analytical Method:	SW846 3050B/6010B, SW846 3050B/6020 and SW846 7471A
Prep Method :	SW846 3050B and SW846 7471A Prep

Preparation/Analytical Method Verification

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

System Configuration

The Metals analysis-ICP was performed on a P E 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, which recovered outside of the advisory limits of 70-130%.

ICSA/ICSAB Statement

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

Continuing Calibration Blank (CCB) Requirements

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

Continuing Calibration Verification (CCV) Requirements

All continuing calibration 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 laboratory control sample (LCS) met the recommended acceptance criteria for percent recovery (%R) for all elements of interest, with the exception of antimony. 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.

Quality Control (QC) Sample Statement

The following samples were selected as the quality control (QC) samples for this SDG: 248247001 (RE36-10-8464) and 248256001 (RE46-10-13534).

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 calcium, lead, magnesium and potassium, 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 calcium, magnesium 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 exception of lead, as indicated by the "*" qualifier.

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 mercury and calcium, as indicated by the "*" qualifier.

Serial Dilution % Difference Statement

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

Technical Information**Holding Time Specifications**

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

Sample Dilutions

Dilutions are performed to minimize matrix interferences resulting from elevated mineral element concentrations present in solid samples and/or to bring over range target analyte concentrations into the linear calibration range of the instrument. The samples in this SDG were diluted the standard 2x for solids on the ICPMS. Per the SOP, sample 248247004 (RE36-10-8485) required dilutions for beryllium and nickel due to relatively high native sample concentration of an internal standard.

Preparation Information

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

Miscellaneous Information**Electronic Packaging Comment**

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

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

Data Exception (DER) Documentation

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following DERs were generated for this SDG: 805464 and 814411. A copy of each DER 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:

Kuister-Paason 4/16/10

Reviewer: _____ Date: _____

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2138-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248247001

BASIS: Dry Weight

DATE COLLECTED 24-FEB-10

CLIENT ID: RE36-10-8464

LEVEL: Low

DATE RECEIVED 27-FEB-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	3680000	ug/Kg		7160	21100	21100	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-36-0	Antimony	1050	ug/Kg	U	347	1050	1050	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-38-2	Arsenic	1.16	mg/kg		0.207	1.03	1.03	2	MS	SKJ	04/13/10 23:18	100413-2	959152
7440-39-3	Barium	43700	ug/Kg		105	526	526	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-41-7	Beryllium	0.561	mg/kg		0.0207	0.103	0.103	2	MS	SKJ	04/13/10 23:18	100413-2	959152
7440-43-9	Cadmium	526	ug/Kg	U	105	526	526	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-70-2	Calcium	1410000	ug/Kg	*N	8420	26300	26300	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-47-3	Chromium	8370	ug/Kg		158	526	526	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-48-4	Cobalt	6750	ug/Kg		158	526	526	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-50-8	Copper	5360	ug/Kg		316	1050	1050	1	P	HSC	04/01/10 05:12	033110B-1	959150
7439-89-6	Iron	9910000	ug/Kg		8420	26300	26300	1	P	HSC	04/01/10 05:12	033110B-1	959150
7439-92-1	Lead	7580	ug/Kg	*N	263	1050	1050	1	P	HSC	04/01/10 05:12	033110B-1	959150
7439-95-4	Magnesium	692000	ug/Kg	N	8950	31600	31600	1	P	HSC	04/01/10 05:12	033110B-1	959150
7439-96-5	Manganese	331000	ug/Kg		211	1050	1050	1	P	HSC	04/01/10 05:12	033110B-1	959150
7439-97-6	Mercury	30.6	ug/kg		4.47	13.2	13.2	1	AV	JXL1	03/17/10 10:49	031710S2-5	958993
7440-02-0	Nickel	4.04	mg/kg		0.103	0.413	0.413	2	MS	SKJ	04/13/10 23:18	100413-2	959152
7440-09-7	Potassium	612000	ug/Kg	N	6740	26300	26300	1	P	HSC	04/01/10 05:12	033110B-1	959150
7782-49-2	Selenium	1.03	mg/kg	U	0.517	1.03	1.03	2	MS	SKJ	04/13/10 23:18	100413-2	959152
7440-22-4	Silver	526	ug/Kg	U	105	526	526	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-23-5	Sodium	251000	ug/Kg		7370	26300	26300	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-28-0	Thallium	0.207	mg/kg	U	0.062	0.207	0.207	2	MS	SKJ	04/13/10 23:18	100413-2	959152
7440-61-1	Uranium	0.550	mg/kg		0.0136	0.0413	0.0413	2	MS	SKJ	04/13/10 23:18	100413-2	959152
7440-62-2	Vanadium	7540	ug/Kg		105	526	526	1	P	HSC	04/01/10 05:12	033110B-1	959150
7440-66-6	Zinc	45400	ug/Kg		347	1050	1050	1	P	HSC	04/01/10 05:12	033110B-1	959150

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958993	958991	SW846 7471A Prep	0.504	g	30	mL	03/16/10	TXB3
959150	959149	SW846 3050B	0.525	g	50	mL	03/11/10	LYH1
959152	959151	SW846 3050B	0.535	g	50	mL	03/11/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2138-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248247002

BASIS: Dry Weight

DATE COLLECTED 24-FEB-10

CLIENT ID: RE36-10-8475

LEVEL: Low

DATE RECEIVED 27-FEB-10

MATRIX: SOIL

%SOLIDS: 91.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2650000	ug/Kg		7260	21300	21300	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-36-0	Antimony	1070	ug/Kg	U	352	1070	1070	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-38-2	Arsenic	2.2	mg/kg		0.211	1.05	1.05	2	MS	SKJ	04/13/10 23:38	100413-2	959152
7440-39-3	Barium	20800	ug/Kg		107	534	534	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-41-7	Beryllium	0.499	mg/kg		0.0211	0.105	0.105	2	MS	SKJ	04/13/10 23:38	100413-2	959152
7440-43-9	Cadmium	534	ug/Kg	U	107	534	534	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-70-2	Calcium	656000	ug/Kg	*N	8540	26700	26700	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-47-3	Chromium	13400	ug/Kg		160	534	534	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-48-4	Cobalt	1340	ug/Kg		160	534	534	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-50-8	Copper	4400	ug/Kg		320	1070	1070	1	P	HSC	04/01/10 05:21	033110B-1	959150
7439-89-6	Iron	8670000	ug/Kg		8540	26700	26700	1	P	HSC	04/01/10 05:21	033110B-1	959150
7439-92-1	Lead	5430	ug/Kg	*N	267	1070	1070	1	P	HSC	04/01/10 05:21	033110B-1	959150
7439-95-4	Magnesium	572000	ug/Kg	N	9070	32000	32000	1	P	HSC	04/01/10 05:21	033110B-1	959150
7439-96-5	Manganese	191000	ug/Kg		213	1070	1070	1	P	HSC	04/01/10 05:21	033110B-1	959150
7439-97-6	Mercury	52.4	ug/kg		4.04	11.9	11.9	1	AV	JXL1	03/17/10 10:50	031710S2-5	958993
7440-02-0	Nickel	2.52	mg/kg		0.105	0.421	0.421	2	MS	SKJ	04/13/10 23:38	100413-2	959152
7440-09-7	Potassium	491000	ug/Kg	N	6830	26700	26700	1	P	HSC	04/01/10 05:21	033110B-1	959150
7782-49-2	Selenium	1.05	mg/kg	U	0.526	1.05	1.05	2	MS	SKJ	04/13/10 23:38	100413-2	959152
7440-22-4	Silver	534	ug/Kg	U	107	534	534	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-23-5	Sodium	134000	ug/Kg		7470	26700	26700	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-28-0	Thallium	0.211	mg/kg	U	0.0632	0.211	0.211	2	MS	SKJ	04/13/10 23:38	100413-2	959152
7440-61-1	Uranium	0.723	mg/kg		0.0139	0.0421	0.0421	2	MS	SKJ	04/13/10 23:38	100413-2	959152
7440-62-2	Vanadium	6230	ug/Kg		107	534	534	1	P	HSC	04/01/10 05:21	033110B-1	959150
7440-66-6	Zinc	47400	ug/Kg		352	1070	1070	1	P	HSC	04/01/10 05:21	033110B-1	959150

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958993	958991	SW846 7471A Prep	0.554	g	30	mL	03/16/10	TXB3
959150	959149	SW846 3050B	0.514	g	50	mL	03/11/10	LYH1
959152	959151	SW846 3050B	0.521	g	50	mL	03/11/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2138-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248247003

BASIS: Dry Weight

DATE COLLECTED 24-FEB-10

CLIENT ID: RE36-10-8471

LEVEL: Low

DATE RECEIVED 27-FEB-10

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2590000	ug/Kg		7360	21600	21600	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-36-0	Antimony	1080	ug/Kg	U	357	1080	1080	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-38-2	Arsenic	0.750	mg/kg	J	0.219	1.09	1.09	2	MS	SKJ	04/13/10 23:42	100413-2	959152
7440-39-3	Barium	25700	ug/Kg		108	541	541	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-41-7	Beryllium	0.463	mg/kg		0.0219	0.109	0.109	2	MS	SKJ	04/13/10 23:42	100413-2	959152
7440-43-9	Cadmium	541	ug/Kg	U	108	541	541	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-70-2	Calcium	554000	ug/Kg	*N	8660	27100	27100	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-47-3	Chromium	59100	ug/Kg		162	541	541	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-48-4	Cobalt	4060	ug/Kg		162	541	541	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-50-8	Copper	3660	ug/Kg		325	1080	1080	1	P	HSC	04/01/10 05:23	033110B-1	959150
7439-89-6	Iron	8980000	ug/Kg		8660	27100	27100	1	P	HSC	04/01/10 05:23	033110B-1	959150
7439-92-1	Lead	4070	ug/Kg	*N	271	1080	1080	1	P	HSC	04/01/10 05:23	033110B-1	959150
7439-95-4	Magnesium	469000	ug/Kg	N	9200	32500	32500	1	P	HSC	04/01/10 05:23	033110B-1	959150
7439-96-5	Manganese	300000	ug/Kg		216	1080	1080	1	P	HSC	04/01/10 05:23	033110B-1	959150
7439-97-6	Mercury	9.5	ug/kg	J	4.22	12.4	12.4	1	AV	JXL1	03/17/10 10:52	031710S2-5	958993
7440-02-0	Nickel	5.72	mg/kg		0.109	0.437	0.437	2	MS	SKJ	04/13/10 23:42	100413-2	959152
7440-09-7	Potassium	517000	ug/Kg	N	6930	27100	27100	1	P	HSC	04/01/10 05:23	033110B-1	959150
7782-49-2	Selenium	1.09	mg/kg	U	0.546	1.09	1.09	2	MS	SKJ	04/13/10 23:42	100413-2	959152
7440-22-4	Silver	541	ug/Kg	U	108	541	541	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-23-5	Sodium	239000	ug/Kg		7570	27100	27100	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-28-0	Thallium	0.219	mg/kg	U	0.0656	0.219	0.219	2	MS	SKJ	04/13/10 23:42	100413-2	959152
7440-61-1	Uranium	0.581	mg/kg		0.0144	0.0437	0.0437	2	MS	SKJ	04/13/10 23:42	100413-2	959152
7440-62-2	Vanadium	4480	ug/Kg		108	541	541	1	P	HSC	04/01/10 05:23	033110B-1	959150
7440-66-6	Zinc	46600	ug/Kg		357	1080	1080	1	P	HSC	04/01/10 05:23	033110B-1	959150

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958993	958991	SW846 7471A Prep	0.546	g	30	mL	03/16/10	TXB3
959150	959149	SW846 3050B	0.522	g	50	mL	03/11/10	LYH1
959152	959151	SW846 3050B	0.517	g	50	mL	03/11/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2138-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248247004

BASIS: Dry Weight

DATE COLLECTED 24-FEB-10

CLIENT ID: RE36-10-8485

LEVEL: Low

DATE RECEIVED 27-FEB-10

MATRIX: SOIL

%SOLIDS: 77

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	19900000	ug/Kg		8760	25800	25800	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-36-0	Antimony	1290	ug/Kg	U	425	1290	1290	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-38-2	Arsenic	3.82	mg/kg		0.256	1.28	1.28	2	MS	SKJ	04/13/10 23:55	100413-2	959152
7440-39-3	Barium	104000	ug/Kg		129	644	644	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-41-7	Beryllium	5.57	mg/kg		0.128	0.641	0.641	10	MS	SKJ	04/14/10 10:32	100413-4	959152
7440-43-9	Cadmium	644	ug/Kg	U	129	644	644	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-70-2	Calcium	4260000	ug/Kg	*N	10300	32200	32200	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-47-3	Chromium	42100	ug/Kg		193	644	644	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-48-4	Cobalt	4070	ug/Kg		193	644	644	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-50-8	Copper	12300	ug/Kg		387	1290	1290	1	P	HSC	04/01/10 05:30	033110B-1	959150
7439-89-6	Iron	19000000	ug/Kg		10300	32200	32200	1	P	HSC	04/01/10 05:30	033110B-1	959150
7439-92-1	Lead	13000	ug/Kg	*N	322	1290	1290	1	P	HSC	04/01/10 05:30	033110B-1	959150
7439-95-4	Magnesium	3800000	ug/Kg	N	11000	38700	38700	1	P	HSC	04/01/10 05:30	033110B-1	959150
7439-96-5	Manganese	256000	ug/Kg		258	1290	1290	1	P	HSC	04/01/10 05:30	033110B-1	959150
7439-97-6	Mercury	53.5	ug/kg		4.78	14.1	14.1	1	AV	JXL1	03/17/10 10:57	031710S2-5	958993
7440-02-0	Nickel	39.9	mg/kg		0.641	2.56	2.56	10	MS	SKJ	04/14/10 10:32	100413-4	959152
7440-09-7	Potassium	2220000	ug/Kg	N	8250	32200	32200	1	P	HSC	04/01/10 05:30	033110B-1	959150
7782-49-2	Selenium	1.28	mg/kg	U	0.641	1.28	1.28	2	MS	SKJ	04/13/10 23:55	100413-2	959152
7440-22-4	Silver	644	ug/Kg	U	129	644	644	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-23-5	Sodium	1300000	ug/Kg		9020	32200	32200	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-28-0	Thallium	0.218	mg/kg	J	0.0769	0.256	0.256	2	MS	SKJ	04/13/10 23:55	100413-2	959152
7440-61-1	Uranium	0.884	mg/kg		0.0169	0.0512	0.0512	2	MS	SKJ	04/13/10 23:55	100413-2	959152
7440-62-2	Vanadium	26100	ug/Kg		129	644	644	1	P	HSC	04/01/10 05:30	033110B-1	959150
7440-66-6	Zinc	50500	ug/Kg		425	1290	1290	1	P	HSC	04/01/10 05:30	033110B-1	959150

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958993	958991	SW846 7471A Prep	0.558	g	30	mL	03/16/10	TXB3
959150	959149	SW846 3050B	0.507	g	50	mL	03/11/10	LYH1
959152	959151	SW846 3050B	0.51	g	50	mL	03/11/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2138-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248247005

BASIS: Dry Weight

DATE COLLECTED 24-FEB-10

CLIENT ID: RE36-10-8477

LEVEL: Low

DATE RECEIVED 27-FEB-10

MATRIX: SOIL

%SOLIDS: 87

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		7460	21900	21900	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-36-0	Antimony	1100	ug/Kg	U	362	1100	1100	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-38-2	Arsenic	1.04	mg/kg	J	0.214	1.07	1.07	2	MS	SKJ	04/13/10 23:59	100413-2	959152
7440-39-3	Barium	31200	ug/Kg		110	548	548	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-41-7	Beryllium	0.567	mg/kg		0.0214	0.107	0.107	2	MS	SKJ	04/13/10 23:59	100413-2	959152
7440-43-9	Cadmium	548	ug/Kg	U	110	548	548	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-70-2	Calcium	959000	ug/Kg	*N	8780	27400	27400	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-47-3	Chromium	13300	ug/Kg		165	548	548	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-48-4	Cobalt	1540	ug/Kg		165	548	548	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-50-8	Copper	2930	ug/Kg		329	1100	1100	1	P	HSC	04/01/10 05:32	033110B-1	959150
7439-89-6	Iron	9340000	ug/Kg		8780	27400	27400	1	P	HSC	04/01/10 05:32	033110B-1	959150
7439-92-1	Lead	6350	ug/Kg	*N	274	1100	1100	1	P	HSC	04/01/10 05:32	033110B-1	959150
7439-95-4	Magnesium	928000	ug/Kg	N	9320	32900	32900	1	P	HSC	04/01/10 05:32	033110B-1	959150
7439-96-5	Manganese	242000	ug/Kg		219	1100	1100	1	P	HSC	04/01/10 05:32	033110B-1	959150
7439-97-6	Mercury	7.85	ug/kg	J	4.68	13.8	13.8	1	AV	JXL1	03/17/10 10:59	031710S2-5	958993
7440-02-0	Nickel	3.72	mg/kg		0.107	0.427	0.427	2	MS	SKJ	04/13/10 23:59	100413-2	959152
7440-09-7	Potassium	666000	ug/Kg	N	7020	27400	27400	1	P	HSC	04/01/10 05:32	033110B-1	959150
7782-49-2	Selenium	1.07	mg/kg	U	0.534	1.07	1.07	2	MS	SKJ	04/13/10 23:59	100413-2	959152
7440-22-4	Silver	548	ug/Kg	U	110	548	548	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-23-5	Sodium	165000	ug/Kg		7680	27400	27400	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-28-0	Thallium	0.214	mg/kg	U	0.0641	0.214	0.214	2	MS	SKJ	04/13/10 23:59	100413-2	959152
7440-61-1	Uranium	0.685	mg/kg		0.0141	0.0427	0.0427	2	MS	SKJ	04/13/10 23:59	100413-2	959152
7440-62-2	Vanadium	7870	ug/Kg		110	548	548	1	P	HSC	04/01/10 05:32	033110B-1	959150
7440-66-6	Zinc	49100	ug/Kg		362	1100	1100	1	P	HSC	04/01/10 05:32	033110B-1	959150

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958993	958991	SW846 7471A Prep	0.5	g	30	mL	03/16/10	TXB3
959150	959149	SW846 3050B	0.523	g	50	mL	03/11/10	LYH1
959152	959151	SW846 3050B	0.537	g	50	mL	03/11/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2138-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248247006

BASIS: Dry Weight

DATE COLLECTED 24-FEB-10

CLIENT ID: RE36-10-8479

LEVEL: Low

DATE RECEIVED 27-FEB-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	5240000	ug/Kg		7280	21400	21400	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-36-0	Antimony	1070	ug/Kg	U	353	1070	1070	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-38-2	Arsenic	1.48	mg/kg		0.206	1.03	1.03	2	MS	SKJ	04/14/10 00:03	100413-2	959152
7440-39-3	Barium	40000	ug/Kg		107	536	536	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-41-7	Beryllium	0.586	mg/kg		0.0206	0.103	0.103	2	MS	SKJ	04/14/10 00:03	100413-2	959152
7440-43-9	Cadmium	536	ug/Kg	U	107	536	536	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-70-2	Calcium	1380000	ug/Kg	*N	8570	26800	26800	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-47-3	Chromium	5980	ug/Kg		161	536	536	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-48-4	Cobalt	1620	ug/Kg		161	536	536	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-50-8	Copper	3620	ug/Kg		321	1070	1070	1	P	HSC	04/01/10 05:34	033110B-1	959150
7439-89-6	Iron	9250000	ug/Kg		8570	26800	26800	1	P	HSC	04/01/10 05:34	033110B-1	959150
7439-92-1	Lead	6690	ug/Kg	*N	268	1070	1070	1	P	HSC	04/01/10 05:34	033110B-1	959150
7439-95-4	Magnesium	967000	ug/Kg	N	9100	32100	32100	1	P	HSC	04/01/10 05:34	033110B-1	959150
7439-96-5	Manganese	234000	ug/Kg		214	1070	1070	1	P	HSC	04/01/10 05:34	033110B-1	959150
7439-97-6	Mercury	15.8	ug/kg		4.31	12.7	12.7	1	AV	JXL1	03/17/10 11:00	031710S2-5	958993
7440-02-0	Nickel	3.1	mg/kg		0.103	0.412	0.412	2	MS	SKJ	04/14/10 00:03	100413-2	959152
7440-09-7	Potassium	741000	ug/Kg	N	6860	26800	26800	1	P	HSC	04/01/10 05:34	033110B-1	959150
7782-49-2	Selenium	1.03	mg/kg	U	0.515	1.03	1.03	2	MS	SKJ	04/14/10 00:03	100413-2	959152
7440-22-4	Silver	536	ug/Kg	U	107	536	536	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-23-5	Sodium	132000	ug/Kg		7500	26800	26800	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-28-0	Thallium	0.206	mg/kg	U	0.0618	0.206	0.206	2	MS	SKJ	04/14/10 00:03	100413-2	959152
7440-61-1	Uranium	0.586	mg/kg		0.0136	0.0412	0.0412	2	MS	SKJ	04/14/10 00:03	100413-2	959152
7440-62-2	Vanadium	7620	ug/Kg		107	536	536	1	P	HSC	04/01/10 05:34	033110B-1	959150
7440-66-6	Zinc	41200	ug/Kg		353	1070	1070	1	P	HSC	04/01/10 05:34	033110B-1	959150

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958993	958991	SW846 7471A Prep	0.527	g	30	mL	03/16/10	TXB3
959150	959149	SW846 3050B	0.52	g	50	mL	03/11/10	LYH1
959152	959151	SW846 3050B	0.541	g	50	mL	03/11/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2138-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248247007

BASIS: Dry Weight

DATE COLLECTED 24-FEB-10

CLIENT ID: RE36-10-8484

LEVEL: Low

DATE RECEIVED 27-FEB-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	7260000	ug/Kg		8040	23600	23600	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-36-0	Antimony	1180	ug/Kg	U	390	1180	1180	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-38-2	Arsenic	1.37	mg/kg		0.222	1.11	1.11	2	MS	SKJ	04/14/10 00:07	100413-2	959152
7440-39-3	Barium	44600	ug/Kg		118	591	591	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-41-7	Beryllium	0.689	mg/kg		0.0222	0.111	0.111	2	MS	SKJ	04/14/10 00:07	100413-2	959152
7440-43-9	Cadmium	591	ug/Kg	U	118	591	591	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-70-2	Calcium	1380000	ug/Kg	*N	9450	29500	29500	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-47-3	Chromium	27100	ug/Kg		177	591	591	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-48-4	Cobalt	2210	ug/Kg		177	591	591	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-50-8	Copper	4430	ug/Kg		354	1180	1180	1	P	HSC	04/01/10 05:36	033110B-1	959150
7439-89-6	Iron	10700000	ug/Kg		9450	29500	29500	1	P	HSC	04/01/10 05:36	033110B-1	959150
7439-92-1	Lead	7170	ug/Kg	*N	295	1180	1180	1	P	HSC	04/01/10 05:36	033110B-1	959150
7439-95-4	Magnesium	1210000	ug/Kg	N	10000	35400	35400	1	P	HSC	04/01/10 05:36	033110B-1	959150
7439-96-5	Manganese	281000	ug/Kg		236	1180	1180	1	P	HSC	04/01/10 05:36	033110B-1	959150
7439-97-6	Mercury	17.5	ug/kg		4.56	13.4	13.4	1	AV	JXL1	03/17/10 11:02	031710S2-5	958993
7440-02-0	Nickel	6.48	mg/kg		0.111	0.444	0.444	2	MS	SKJ	04/14/10 00:07	100413-2	959152
7440-09-7	Potassium	865000	ug/Kg	N	7560	29500	29500	1	P	HSC	04/01/10 05:36	033110B-1	959150
7782-49-2	Selenium	1.11	mg/kg	U	0.556	1.11	1.11	2	MS	SKJ	04/14/10 00:07	100413-2	959152
7440-22-4	Silver	591	ug/Kg	U	118	591	591	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-23-5	Sodium	924000	ug/Kg		8270	29500	29500	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-28-0	Thallium	0.222	mg/kg	U	0.0667	0.222	0.222	2	MS	SKJ	04/14/10 00:07	100413-2	959152
7440-61-1	Uranium	0.679	mg/kg		0.0147	0.0444	0.0444	2	MS	SKJ	04/14/10 00:07	100413-2	959152
7440-62-2	Vanadium	11000	ug/Kg		118	591	591	1	P	HSC	04/01/10 05:36	033110B-1	959150
7440-66-6	Zinc	41500	ug/Kg		390	1180	1180	1	P	HSC	04/01/10 05:36	033110B-1	959150

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958993	958991	SW846 7471A Prep	0.534	g	30	mL	03/16/10	TXB3
959150	959149	SW846 3050B	0.505	g	50	mL	03/11/10	LYH1
959152	959151	SW846 3050B	0.537	g	50	mL	03/11/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2138-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248247008

BASIS: Dry Weight

DATE COLLECTED 24-FEB-10

CLIENT ID: RE36-10-8481

LEVEL: Low

DATE RECEIVED 27-FEB-10

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5920000	ug/Kg		7470	22000	22000	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-36-0	Antimony	1100	ug/Kg	U	362	1100	1100	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-38-2	Arsenic	1.49	mg/kg		0.22	1.1	1.1	2	MS	SKJ	04/14/10 00:11	100413-2	959152
7440-39-3	Barium	45900	ug/Kg		110	549	549	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-41-7	Beryllium	0.797	mg/kg		0.022	0.11	0.11	2	MS	SKJ	04/14/10 00:11	100413-2	959152
7440-43-9	Cadmium	549	ug/Kg	U	110	549	549	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-70-2	Calcium	1710000	ug/Kg	*N	8790	27500	27500	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-47-3	Chromium	10800	ug/Kg		165	549	549	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-48-4	Cobalt	1710	ug/Kg		165	549	549	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-50-8	Copper	4120	ug/Kg		329	1100	1100	1	P	HSC	04/01/10 05:38	033110B-1	959150
7439-89-6	Iron	10200000	ug/Kg		8790	27500	27500	1	P	HSC	04/01/10 05:38	033110B-1	959150
7439-92-1	Lead	7490	ug/Kg	*N	275	1100	1100	1	P	HSC	04/01/10 05:38	033110B-1	959150
7439-95-4	Magnesium	1120000	ug/Kg	N	9330	32900	32900	1	P	HSC	04/01/10 05:38	033110B-1	959150
7439-96-5	Manganese	240000	ug/Kg		220	1100	1100	1	P	HSC	04/01/10 05:38	033110B-1	959150
7439-97-6	Mercury	17.2	ug/kg		4.11	12.1	12.1	1	AV	JXL1	03/17/10 11:04	031710S2-5	958993
7440-02-0	Nickel	4.42	mg/kg		0.11	0.44	0.44	2	MS	SKJ	04/14/10 00:11	100413-2	959152
7440-09-7	Potassium	867000	ug/Kg	N	7030	27500	27500	1	P	HSC	04/01/10 05:38	033110B-1	959150
7782-49-2	Selenium	1.1	mg/kg	U	0.55	1.1	1.1	2	MS	SKJ	04/14/10 00:11	100413-2	959152
7440-22-4	Silver	549	ug/Kg	U	110	549	549	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-23-5	Sodium	131000	ug/Kg		7690	27500	27500	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-28-0	Thallium	0.220	mg/kg	U	0.066	0.22	0.22	2	MS	SKJ	04/14/10 00:11	100413-2	959152
7440-61-1	Uranium	0.725	mg/kg		0.0145	0.044	0.044	2	MS	SKJ	04/14/10 00:11	100413-2	959152
7440-62-2	Vanadium	8630	ug/Kg		110	549	549	1	P	HSC	04/01/10 05:38	033110B-1	959150
7440-66-6	Zinc	51000	ug/Kg		362	1100	1100	1	P	HSC	04/01/10 05:38	033110B-1	959150

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958993	958991	SW846 7471A Prep	0.559	g	30	mL	03/16/10	TXB3
959150	959149	SW846 3050B	0.513	g	50	mL	03/11/10	LYH1
959152	959151	SW846 3050B	0.512	g	50	mL	03/11/10	LYH1

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,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	5.13	ug/L	5	ug/L	102.6	90.0 – 110.0	AV	17-MAR-10 09:48	031710S2-5
	Aluminum	5150	ug/L	5000	ug/L	102.9	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Antimony	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Barium	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Cadmium	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Calcium	5050	ug/L	5000	ug/L	101	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Chromium	488	ug/L	500	ug/L	97.7	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Cobalt	510	ug/L	500	ug/L	101.9	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Copper	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Iron	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Lead	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Magnesium	5330	ug/L	5000	ug/L	106.6	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Manganese	516	ug/L	500	ug/L	103.3	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Potassium	2520	ug/L	2500	ug/L	100.7	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Silver	258	ug/L	250	ug/L	103.3	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Sodium	2510	ug/L	2500	ug/L	100.5	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Vanadium	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Zinc	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Arsenic	50.6	ug/L	50	ug/L	101.2	90.0 – 110.0	MS	13-APR-10 19:08	100413-2
	Beryllium	50.5	ug/L	50	ug/L	101	90.0 – 110.0	MS	13-APR-10 19:08	100413-2
	Nickel	51.4	ug/L	50	ug/L	102.9	90.0 – 110.0	MS	13-APR-10 19:08	100413-2
	Selenium	50.4	ug/L	50	ug/L	100.7	90.0 – 110.0	MS	13-APR-10 19:08	100413-2
	Thallium	50.7	ug/L	50	ug/L	101.4	90.0 – 110.0	MS	13-APR-10 19:08	100413-2
	Uranium	49.8	ug/L	50	ug/L	99.5	90.0 – 110.0	MS	13-APR-10 19:08	100413-2
	Beryllium	49.5	ug/L	50	ug/L	98.9	90.0 – 110.0	MS	14-APR-10 09:54	100413-4
	Nickel	51.2	ug/L	50	ug/L	102.4	90.0 – 110.0	MS	14-APR-10 09:54	100413-4
CCV01										
	Mercury	5.11	ug/L	5	ug/L	102.3	80.0 – 120.0	AV	17-MAR-10 09:53	031710S2-5
	Aluminum	5020	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1
	Antimony	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,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>
	Barium	494	ug/L	500	ug/L	98.8	90.0 - 110.0	P	31-MAR-10 18:59	033110B-1
	Cadmium	493	ug/L	500	ug/L	98.5	90.0 - 110.0	P	31-MAR-10 18:59	033110B-1
	Calcium	5040	ug/L	5000	ug/L	100.7	90.0 - 110.0	P	31-MAR-10 18:59	033110B-1
	Chromium	492	ug/L	500	ug/L	98.5	90.0 - 110.0	P	31-MAR-10 18:59	033110B-1
	Cobalt	495	ug/L	500	ug/L	99	90.0 - 110.0	P	31-MAR-10 18:59	033110B-1
	Copper	493	ug/L	500	ug/L	98.6	90.0 - 110.0	P	31-MAR-10 18:59	033110B-1
	Iron	4990	ug/L	5000	ug/L	99.8	90.0 - 110.0	P	31-MAR-10 18:59	033110B-1
	Lead	504	ug/L	500	ug/L	100.8	90.0 - 110.0	P	31-MAR-10 18:59	033110B-1
	Magnesium	5130	ug/L	5000	ug/L	102.6	90.0 - 110.0	P	31-MAR-10 18:59	033110B-1
	Manganese	496	ug/L	500	ug/L	99.1	90.0 - 110.0	P	31-MAR-10 18:59	033110B-1
	Potassium	5700	ug/L	5000	ug/L	113.9	90.0 - 110.0	P	31-MAR-10 18:59	033110B-1
	Silver	493	ug/L	500	ug/L	98.6	90.0 - 110.0	P	31-MAR-10 18:59	033110B-1
	Sodium	10100	ug/L	10000	ug/L	100.7	90.0 - 110.0	P	31-MAR-10 18:59	033110B-1
	Vanadium	496	ug/L	500	ug/L	99.1	90.0 - 110.0	P	31-MAR-10 18:59	033110B-1
	Zinc	494	ug/L	500	ug/L	98.8	90.0 - 110.0	P	31-MAR-10 18:59	033110B-1
	Arsenic	50.7	ug/L	50	ug/L	101.4	90.0 - 110.0	MS	13-APR-10 19:28	100413-2
	Beryllium	52.3	ug/L	50	ug/L	104.6	90.0 - 110.0	MS	13-APR-10 19:28	100413-2
	Nickel	50.1	ug/L	50	ug/L	100.2	90.0 - 110.0	MS	13-APR-10 19:28	100413-2
	Selenium	51.8	ug/L	50	ug/L	103.5	90.0 - 110.0	MS	13-APR-10 19:28	100413-2
	Thallium	49.4	ug/L	50	ug/L	98.7	90.0 - 110.0	MS	13-APR-10 19:28	100413-2
	Uranium	50	ug/L	50	ug/L	100	90.0 - 110.0	MS	13-APR-10 19:28	100413-2
	Beryllium	47.3	ug/L	50	ug/L	94.5	90.0 - 110.0	MS	14-APR-10 10:10	100413-4
	Nickel	51.7	ug/L	50	ug/L	103.3	90.0 - 110.0	MS	14-APR-10 10:10	100413-4
CCV02	Mercury	5.2	ug/L	5	ug/L	104	80.0 - 120.0	AV	17-MAR-10 10:13	031710S2-5
	Aluminum	5000	ug/L	5000	ug/L	100	90.0 - 110.0	P	31-MAR-10 19:06	033110B-1
	Antimony	495	ug/L	500	ug/L	99	90.0 - 110.0	P	31-MAR-10 19:06	033110B-1
	Barium	492	ug/L	500	ug/L	98.5	90.0 - 110.0	P	31-MAR-10 19:06	033110B-1
	Cadmium	492	ug/L	500	ug/L	98.4	90.0 - 110.0	P	31-MAR-10 19:06	033110B-1
	Calcium	4990	ug/L	5000	ug/L	99.9	90.0 - 110.0	P	31-MAR-10 19:06	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,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>
	Chromium	490	ug/L	500	ug/L	98	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Cobalt	495	ug/L	500	ug/L	99	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Copper	490	ug/L	500	ug/L	98	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Iron	4950	ug/L	5000	ug/L	99.1	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Lead	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Magnesium	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Manganese	495	ug/L	500	ug/L	99	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Potassium	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Silver	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Sodium	9880	ug/L	10000	ug/L	98.8	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Vanadium	494	ug/L	500	ug/L	98.9	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Zinc	490	ug/L	500	ug/L	97.9	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Arsenic	51.7	ug/L	50	ug/L	103.3	90.0 – 110.0	MS	13-APR-10 20:09	100413-2
	Beryllium	55.7	ug/L	50	ug/L	111.4	90.0 – 110.0	MS	13-APR-10 20:09	100413-2
	Nickel	49.9	ug/L	50	ug/L	99.7	90.0 – 110.0	MS	13-APR-10 20:09	100413-2
	Selenium	51	ug/L	50	ug/L	102	90.0 – 110.0	MS	13-APR-10 20:09	100413-2
	Thallium	50.1	ug/L	50	ug/L	100.2	90.0 – 110.0	MS	13-APR-10 20:09	100413-2
	Uranium	50.7	ug/L	50	ug/L	101.3	90.0 – 110.0	MS	13-APR-10 20:09	100413-2
	Beryllium	47.2	ug/L	50	ug/L	94.4	90.0 – 110.0	MS	14-APR-10 10:26	100413-4
	Nickel	51	ug/L	50	ug/L	102	90.0 – 110.0	MS	14-APR-10 10:26	100413-4
CCV03	Mercury	5.22	ug/L	5	ug/L	104.4	80.0 – 120.0	AV	17-MAR-10 10:33	031710S2-5
	Aluminum	4980	ug/L	5000	ug/L	99.7	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Antimony	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Barium	491	ug/L	500	ug/L	98.3	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Cadmium	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Calcium	5000	ug/L	5000	ug/L	100	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Chromium	490	ug/L	500	ug/L	97.9	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Cobalt	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Copper	490	ug/L	500	ug/L	98	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,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	4950	ug/L	5000	ug/L	99	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Lead	497	ug/L	500	ug/L	99.3	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Magnesium	5110	ug/L	5000	ug/L	102.2	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Manganese	495	ug/L	500	ug/L	99	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Potassium	4970	ug/L	5000	ug/L	99.4	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Silver	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Sodium	9810	ug/L	10000	ug/L	98.1	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Vanadium	494	ug/L	500	ug/L	98.7	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Zinc	489	ug/L	500	ug/L	97.9	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Arsenic	51.3	ug/L	50	ug/L	102.5	90.0 – 110.0	MS	13-APR-10 20:42	100413-2
	Beryllium	54.8	ug/L	50	ug/L	109.5	90.0 – 110.0	MS	13-APR-10 20:42	100413-2
	Nickel	48.6	ug/L	50	ug/L	97.3	90.0 – 110.0	MS	13-APR-10 20:42	100413-2
	Selenium	53.3	ug/L	50	ug/L	106.6	90.0 – 110.0	MS	13-APR-10 20:42	100413-2
	Thallium	49.6	ug/L	50	ug/L	99.3	90.0 – 110.0	MS	13-APR-10 20:42	100413-2
	Uranium	50.5	ug/L	50	ug/L	101	90.0 – 110.0	MS	13-APR-10 20:42	100413-2
	Beryllium	46.9	ug/L	50	ug/L	93.8	90.0 – 110.0	MS	14-APR-10 10:36	100413-4
	Nickel	51.3	ug/L	50	ug/L	102.6	90.0 – 110.0	MS	14-APR-10 10:36	100413-4
CCV04	Mercury	4.91	ug/L	5	ug/L	98.3	80.0 – 120.0	AV	17-MAR-10 10:54	031710S2-5
	Aluminum	4980	ug/L	5000	ug/L	99.5	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Antimony	486	ug/L	500	ug/L	97.1	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Barium	488	ug/L	500	ug/L	97.5	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Cadmium	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Calcium	4930	ug/L	5000	ug/L	98.6	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Chromium	485	ug/L	500	ug/L	97	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Cobalt	490	ug/L	500	ug/L	98	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Copper	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Iron	4880	ug/L	5000	ug/L	97.7	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Lead	490	ug/L	500	ug/L	98	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Magnesium	5000	ug/L	5000	ug/L	100	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Manganese	490	ug/L	500	ug/L	98	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Potassium	4870	ug/L	5000	ug/L	97.5	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Silver	489	ug/L	500	ug/L	97.7	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Sodium	9730	ug/L	10000	ug/L	97.3	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Vanadium	490	ug/L	500	ug/L	97.9	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Zinc	483	ug/L	500	ug/L	96.7	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Arsenic	50.5	ug/L	50	ug/L	100.9	90.0 – 110.0	MS	13-APR-10 21:19	100413-2
	Beryllium	54.4	ug/L	50	ug/L	108.7	90.0 – 110.0	MS	13-APR-10 21:19	100413-2
	Nickel	48.7	ug/L	50	ug/L	97.3	90.0 – 110.0	MS	13-APR-10 21:19	100413-2
	Selenium	51.1	ug/L	50	ug/L	102.2	90.0 – 110.0	MS	13-APR-10 21:19	100413-2
	Thallium	50.5	ug/L	50	ug/L	100.9	90.0 – 110.0	MS	13-APR-10 21:19	100413-2
	Uranium	51	ug/L	50	ug/L	102.1	90.0 – 110.0	MS	13-APR-10 21:19	100413-2
CCV05										
	Mercury	4.93	ug/L	5	ug/L	98.6	80.0 – 120.0	AV	17-MAR-10 11:14	031710S2-5
	Aluminum	4940	ug/L	5000	ug/L	98.9	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Antimony	488	ug/L	500	ug/L	97.6	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Barium	489	ug/L	500	ug/L	97.8	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Cadmium	491	ug/L	500	ug/L	98.1	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Calcium	4960	ug/L	5000	ug/L	99.3	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Chromium	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Cobalt	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Copper	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Iron	4910	ug/L	5000	ug/L	98.3	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Lead	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Magnesium	5050	ug/L	5000	ug/L	101.1	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Manganese	491	ug/L	500	ug/L	98.3	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Potassium	4920	ug/L	5000	ug/L	98.3	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Silver	489	ug/L	500	ug/L	97.8	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Sodium	9760	ug/L	10000	ug/L	97.6	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Vanadium	490	ug/L	500	ug/L	98	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Zinc	487	ug/L	500	ug/L	97.5	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Arsenic	49.9	ug/L	50	ug/L	99.8	90.0 – 110.0	MS	13-APR-10 22:00	100413-2
	Beryllium	54.4	ug/L	50	ug/L	108.8	90.0 – 110.0	MS	13-APR-10 22:00	100413-2
	Nickel	49.1	ug/L	50	ug/L	98.3	90.0 – 110.0	MS	13-APR-10 22:00	100413-2
	Selenium	50.4	ug/L	50	ug/L	100.8	90.0 – 110.0	MS	13-APR-10 22:00	100413-2
	Thallium	50.4	ug/L	50	ug/L	100.7	90.0 – 110.0	MS	13-APR-10 22:00	100413-2
	Uranium	50.9	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	13-APR-10 22:00	100413-2
CCV06	Mercury	4.96	ug/L	5	ug/L	99.1	80.0 – 120.0	AV	17-MAR-10 11:34	031710S2-5
	Aluminum	4940	ug/L	5000	ug/L	98.9	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Antimony	484	ug/L	500	ug/L	96.7	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Barium	485	ug/L	500	ug/L	96.9	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Cadmium	483	ug/L	500	ug/L	96.5	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Calcium	4920	ug/L	5000	ug/L	98.4	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Chromium	483	ug/L	500	ug/L	96.5	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Cobalt	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Copper	483	ug/L	500	ug/L	96.5	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Iron	4860	ug/L	5000	ug/L	97.3	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Lead	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Magnesium	4990	ug/L	5000	ug/L	99.8	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Manganese	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Potassium	4860	ug/L	5000	ug/L	97.1	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Silver	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Sodium	9750	ug/L	10000	ug/L	97.5	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Vanadium	487	ug/L	500	ug/L	97.5	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Zinc	481	ug/L	500	ug/L	96.1	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Arsenic	51.1	ug/L	50	ug/L	102.3	90.0 – 110.0	MS	13-APR-10 22:33	100413-2
	Beryllium	53	ug/L	50	ug/L	106	90.0 – 110.0	MS	13-APR-10 22:33	100413-2
	Nickel	48.3	ug/L	50	ug/L	96.6	90.0 – 110.0	MS	13-APR-10 22:33	100413-2
	Selenium	50.4	ug/L	50	ug/L	100.8	90.0 – 110.0	MS	13-APR-10 22:33	100413-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,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>
	Thallium	49.9	ug/L	50	ug/L	99.8	90.0 - 110.0	MS	13-APR-10 22:33	100413-2
	Uranium	51	ug/L	50	ug/L	102	90.0 - 110.0	MS	13-APR-10 22:33	100413-2
CCV07										
	Aluminum	4960	ug/L	5000	ug/L	99.1	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Antimony	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Barium	485	ug/L	500	ug/L	97	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Cadmium	482	ug/L	500	ug/L	96.4	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Calcium	4910	ug/L	5000	ug/L	98.1	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Chromium	483	ug/L	500	ug/L	96.6	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Cobalt	486	ug/L	500	ug/L	97.2	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Copper	484	ug/L	500	ug/L	96.7	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Iron	4860	ug/L	5000	ug/L	97.1	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Lead	490	ug/L	500	ug/L	98	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Magnesium	4990	ug/L	5000	ug/L	99.9	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Manganese	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Potassium	4890	ug/L	5000	ug/L	97.9	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Silver	486	ug/L	500	ug/L	97.2	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Sodium	9770	ug/L	10000	ug/L	97.7	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Vanadium	487	ug/L	500	ug/L	97.3	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Zinc	480	ug/L	500	ug/L	96	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Arsenic	50.8	ug/L	50	ug/L	101.7	90.0 - 110.0	MS	13-APR-10 23:01	100413-2
	Beryllium	54.1	ug/L	50	ug/L	108.2	90.0 - 110.0	MS	13-APR-10 23:01	100413-2
	Nickel	48.4	ug/L	50	ug/L	96.8	90.0 - 110.0	MS	13-APR-10 23:01	100413-2
	Selenium	50.5	ug/L	50	ug/L	101.1	90.0 - 110.0	MS	13-APR-10 23:01	100413-2
	Thallium	49.7	ug/L	50	ug/L	99.3	90.0 - 110.0	MS	13-APR-10 23:01	100413-2
	Uranium	50.9	ug/L	50	ug/L	101.8	90.0 - 110.0	MS	13-APR-10 23:01	100413-2
CCV08										
	Aluminum	4980	ug/L	5000	ug/L	99.6	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1
	Antimony	487	ug/L	500	ug/L	97.3	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1
	Barium	486	ug/L	500	ug/L	97.2	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,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	485	ug/L	500	ug/L	97.1	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1
	Calcium	4920	ug/L	5000	ug/L	98.5	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1
	Chromium	484	ug/L	500	ug/L	96.7	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1
	Cobalt	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1
	Copper	484	ug/L	500	ug/L	96.7	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1
	Iron	4900	ug/L	5000	ug/L	98.1	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1
	Lead	490	ug/L	500	ug/L	98	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1
	Magnesium	4990	ug/L	5000	ug/L	99.8	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1
	Manganese	488	ug/L	500	ug/L	97.7	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1
	Potassium	4890	ug/L	5000	ug/L	97.8	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1
	Silver	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1
	Sodium	9710	ug/L	10000	ug/L	97.1	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1
	Vanadium	488	ug/L	500	ug/L	97.5	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1
	Zinc	483	ug/L	500	ug/L	96.6	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1
	Arsenic	50.7	ug/L	50	ug/L	101.3	90.0 - 110.0	MS	13-APR-10 23:47	100413-2
	Beryllium	54	ug/L	50	ug/L	108	90.0 - 110.0	MS	13-APR-10 23:47	100413-2
	Nickel	48.4	ug/L	50	ug/L	96.8	90.0 - 110.0	MS	13-APR-10 23:47	100413-2
	Selenium	49.5	ug/L	50	ug/L	98.9	90.0 - 110.0	MS	13-APR-10 23:47	100413-2
	Thallium	50.4	ug/L	50	ug/L	100.9	90.0 - 110.0	MS	13-APR-10 23:47	100413-2
	Uranium	51.2	ug/L	50	ug/L	102.5	90.0 - 110.0	MS	13-APR-10 23:47	100413-2
CCV09	Aluminum	4950	ug/L	5000	ug/L	99	90.0 - 110.0	P	31-MAR-10 21:55	033110B-1
	Antimony	483	ug/L	500	ug/L	96.6	90.0 - 110.0	P	31-MAR-10 21:55	033110B-1
	Barium	481	ug/L	500	ug/L	96.1	90.0 - 110.0	P	31-MAR-10 21:55	033110B-1
	Cadmium	479	ug/L	500	ug/L	95.7	90.0 - 110.0	P	31-MAR-10 21:55	033110B-1
	Calcium	4910	ug/L	5000	ug/L	98.2	90.0 - 110.0	P	31-MAR-10 21:55	033110B-1
	Chromium	478	ug/L	500	ug/L	95.5	90.0 - 110.0	P	31-MAR-10 21:55	033110B-1
	Cobalt	481	ug/L	500	ug/L	96.2	90.0 - 110.0	P	31-MAR-10 21:55	033110B-1
	Copper	478	ug/L	500	ug/L	95.6	90.0 - 110.0	P	31-MAR-10 21:55	033110B-1
	Iron	4890	ug/L	5000	ug/L	97.8	90.0 - 110.0	P	31-MAR-10 21:55	033110B-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Lead	488	ug/L	500	ug/L	97.7	90.0 - 110.0	P	31-MAR-10 21:55	033110B-1
	Magnesium	5000	ug/L	5000	ug/L	100	90.0 - 110.0	P	31-MAR-10 21:55	033110B-1
	Manganese	482	ug/L	500	ug/L	96.4	90.0 - 110.0	P	31-MAR-10 21:55	033110B-1
	Potassium	4910	ug/L	5000	ug/L	98.2	90.0 - 110.0	P	31-MAR-10 21:55	033110B-1
	Silver	481	ug/L	500	ug/L	96.3	90.0 - 110.0	P	31-MAR-10 21:55	033110B-1
	Sodium	9660	ug/L	10000	ug/L	96.6	90.0 - 110.0	P	31-MAR-10 21:55	033110B-1
	Vanadium	482	ug/L	500	ug/L	96.4	90.0 - 110.0	P	31-MAR-10 21:55	033110B-1
	Zinc	477	ug/L	500	ug/L	95.3	90.0 - 110.0	P	31-MAR-10 21:55	033110B-1
	Arsenic	50.8	ug/L	50	ug/L	101.6	90.0 - 110.0	MS	14-APR-10 00:32	100413-2
	Beryllium	53.8	ug/L	50	ug/L	107.7	90.0 - 110.0	MS	14-APR-10 00:32	100413-2
	Nickel	48.5	ug/L	50	ug/L	97	90.0 - 110.0	MS	14-APR-10 00:32	100413-2
	Selenium	50	ug/L	50	ug/L	99.9	90.0 - 110.0	MS	14-APR-10 00:32	100413-2
	Thallium	49.6	ug/L	50	ug/L	99.2	90.0 - 110.0	MS	14-APR-10 00:32	100413-2
	Uranium	50.4	ug/L	50	ug/L	100.9	90.0 - 110.0	MS	14-APR-10 00:32	100413-2
CCV10	Aluminum	4920	ug/L	5000	ug/L	98.5	90.0 - 110.0	P	31-MAR-10 22:12	033110B-1
	Antimony	479	ug/L	500	ug/L	95.8	90.0 - 110.0	P	31-MAR-10 22:12	033110B-1
	Barium	480	ug/L	500	ug/L	96	90.0 - 110.0	P	31-MAR-10 22:12	033110B-1
	Cadmium	477	ug/L	500	ug/L	95.4	90.0 - 110.0	P	31-MAR-10 22:12	033110B-1
	Calcium	4860	ug/L	5000	ug/L	97.3	90.0 - 110.0	P	31-MAR-10 22:12	033110B-1
	Chromium	476	ug/L	500	ug/L	95.3	90.0 - 110.0	P	31-MAR-10 22:12	033110B-1
	Cobalt	481	ug/L	500	ug/L	96.2	90.0 - 110.0	P	31-MAR-10 22:12	033110B-1
	Copper	479	ug/L	500	ug/L	95.8	90.0 - 110.0	P	31-MAR-10 22:12	033110B-1
	Iron	4830	ug/L	5000	ug/L	96.6	90.0 - 110.0	P	31-MAR-10 22:12	033110B-1
	Lead	482	ug/L	500	ug/L	96.4	90.0 - 110.0	P	31-MAR-10 22:12	033110B-1
	Magnesium	4920	ug/L	5000	ug/L	98.5	90.0 - 110.0	P	31-MAR-10 22:12	033110B-1
	Manganese	482	ug/L	500	ug/L	96.5	90.0 - 110.0	P	31-MAR-10 22:12	033110B-1
	Potassium	4820	ug/L	5000	ug/L	96.4	90.0 - 110.0	P	31-MAR-10 22:12	033110B-1
	Silver	481	ug/L	500	ug/L	96.2	90.0 - 110.0	P	31-MAR-10 22:12	033110B-1
	Sodium	9610	ug/L	10000	ug/L	96.1	90.0 - 110.0	P	31-MAR-10 22:12	033110B-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,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>
CCV11	Vanadium	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
	Zinc	476	ug/L	500	ug/L	95.3	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
	Aluminum	4890	ug/L	5000	ug/L	97.8	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Antimony	476	ug/L	500	ug/L	95.2	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Barium	478	ug/L	500	ug/L	95.6	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Cadmium	473	ug/L	500	ug/L	94.7	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Calcium	4830	ug/L	5000	ug/L	96.6	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Chromium	474	ug/L	500	ug/L	94.7	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Cobalt	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Copper	477	ug/L	500	ug/L	95.5	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Iron	4800	ug/L	5000	ug/L	96.1	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Lead	478	ug/L	500	ug/L	95.7	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Magnesium	4890	ug/L	5000	ug/L	97.9	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Manganese	480	ug/L	500	ug/L	95.9	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Potassium	4800	ug/L	5000	ug/L	95.9	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Silver	480	ug/L	500	ug/L	95.9	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Sodium	9560	ug/L	10000	ug/L	95.6	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Vanadium	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Zinc	472	ug/L	500	ug/L	94.5	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
CCV12	Aluminum	4900	ug/L	5000	ug/L	98	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Antimony	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Barium	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Cadmium	480	ug/L	500	ug/L	96	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Calcium	4840	ug/L	5000	ug/L	96.8	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Chromium	478	ug/L	500	ug/L	95.5	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Cobalt	481	ug/L	500	ug/L	96.1	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Copper	478	ug/L	500	ug/L	95.7	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Iron	4820	ug/L	5000	ug/L	96.4	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,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	482	ug/L	500	ug/L	96.3	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Magnesium	4900	ug/L	5000	ug/L	98.1	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Manganese	483	ug/L	500	ug/L	96.7	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Potassium	4820	ug/L	5000	ug/L	96.4	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Silver	480	ug/L	500	ug/L	96.1	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Sodium	9590	ug/L	10000	ug/L	95.9	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Vanadium	482	ug/L	500	ug/L	96.5	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Zinc	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
CCV13	Aluminum	4920	ug/L	5000	ug/L	98.4	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Antimony	480	ug/L	500	ug/L	96	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Barium	480	ug/L	500	ug/L	96	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Cadmium	477	ug/L	500	ug/L	95.3	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Calcium	4850	ug/L	5000	ug/L	97	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Chromium	476	ug/L	500	ug/L	95.2	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Cobalt	480	ug/L	500	ug/L	96	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Copper	478	ug/L	500	ug/L	95.6	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Iron	4830	ug/L	5000	ug/L	96.5	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Lead	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Magnesium	4920	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Manganese	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Potassium	4800	ug/L	5000	ug/L	96.1	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Silver	480	ug/L	500	ug/L	96	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Sodium	9620	ug/L	10000	ug/L	96.2	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Vanadium	481	ug/L	500	ug/L	96.3	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Zinc	476	ug/L	500	ug/L	95.1	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
CCV14	Aluminum	4920	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Antimony	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Barium	480	ug/L	500	ug/L	96.1	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,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	478	ug/L	500	ug/L	95.7	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Calcium	4840	ug/L	5000	ug/L	96.8	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Chromium	477	ug/L	500	ug/L	95.3	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Cobalt	480	ug/L	500	ug/L	96	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Copper	478	ug/L	500	ug/L	95.7	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Iron	4820	ug/L	5000	ug/L	96.4	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Lead	482	ug/L	500	ug/L	96.3	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Magnesium	4910	ug/L	5000	ug/L	98.2	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Manganese	482	ug/L	500	ug/L	96.5	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Potassium	4790	ug/L	5000	ug/L	95.9	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Silver	480	ug/L	500	ug/L	96.1	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Sodium	9600	ug/L	10000	ug/L	96	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Vanadium	482	ug/L	500	ug/L	96.3	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Zinc	476	ug/L	500	ug/L	95.3	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
CCV15	Aluminum	4900	ug/L	5000	ug/L	98	90.0 – 110.0	P	01-APR-10 00:02	033110B-1
	Antimony	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	01-APR-10 00:02	033110B-1
	Barium	478	ug/L	500	ug/L	95.7	90.0 – 110.0	P	01-APR-10 00:02	033110B-1
	Cadmium	475	ug/L	500	ug/L	95.1	90.0 – 110.0	P	01-APR-10 00:02	033110B-1
	Calcium	4820	ug/L	5000	ug/L	96.3	90.0 – 110.0	P	01-APR-10 00:02	033110B-1
	Chromium	474	ug/L	500	ug/L	94.8	90.0 – 110.0	P	01-APR-10 00:02	033110B-1
	Cobalt	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	01-APR-10 00:02	033110B-1
	Copper	476	ug/L	500	ug/L	95.2	90.0 – 110.0	P	01-APR-10 00:02	033110B-1
	Iron	4800	ug/L	5000	ug/L	96	90.0 – 110.0	P	01-APR-10 00:02	033110B-1
	Lead	484	ug/L	500	ug/L	96.7	90.0 – 110.0	P	01-APR-10 00:02	033110B-1
	Magnesium	4930	ug/L	5000	ug/L	98.7	90.0 – 110.0	P	01-APR-10 00:02	033110B-1
	Manganese	479	ug/L	500	ug/L	95.9	90.0 – 110.0	P	01-APR-10 00:02	033110B-1
	Potassium	4820	ug/L	5000	ug/L	96.4	90.0 – 110.0	P	01-APR-10 00:02	033110B-1
	Silver	479	ug/L	500	ug/L	95.7	90.0 – 110.0	P	01-APR-10 00:02	033110B-1
	Sodium	9580	ug/L	10000	ug/L	95.8	90.0 – 110.0	P	01-APR-10 00:02	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,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	480	ug/L	500	ug/L	95.9	90.0 – 110.0	P	01-APR-10 00:02	033110B-1
	Zinc	473	ug/L	500	ug/L	94.7	90.0 – 110.0	P	01-APR-10 00:02	033110B-1
CCV16										
	Aluminum	4930	ug/L	5000	ug/L	98.6	90.0 – 110.0	P	01-APR-10 00:18	033110B-1
	Antimony	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	01-APR-10 00:18	033110B-1
	Barium	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	01-APR-10 00:18	033110B-1
	Cadmium	477	ug/L	500	ug/L	95.3	90.0 – 110.0	P	01-APR-10 00:18	033110B-1
	Calcium	4840	ug/L	5000	ug/L	96.8	90.0 – 110.0	P	01-APR-10 00:18	033110B-1
	Chromium	476	ug/L	500	ug/L	95.1	90.0 – 110.0	P	01-APR-10 00:18	033110B-1
	Cobalt	480	ug/L	500	ug/L	95.9	90.0 – 110.0	P	01-APR-10 00:18	033110B-1
	Copper	478	ug/L	500	ug/L	95.6	90.0 – 110.0	P	01-APR-10 00:18	033110B-1
	Iron	4820	ug/L	5000	ug/L	96.4	90.0 – 110.0	P	01-APR-10 00:18	033110B-1
	Lead	480	ug/L	500	ug/L	95.9	90.0 – 110.0	P	01-APR-10 00:18	033110B-1
	Magnesium	4930	ug/L	5000	ug/L	98.6	90.0 – 110.0	P	01-APR-10 00:18	033110B-1
	Manganese	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	01-APR-10 00:18	033110B-1
	Potassium	4830	ug/L	5000	ug/L	96.5	90.0 – 110.0	P	01-APR-10 00:18	033110B-1
	Silver	480	ug/L	500	ug/L	96	90.0 – 110.0	P	01-APR-10 00:18	033110B-1
	Sodium	9650	ug/L	10000	ug/L	96.5	90.0 – 110.0	P	01-APR-10 00:18	033110B-1
	Vanadium	481	ug/L	500	ug/L	96.3	90.0 – 110.0	P	01-APR-10 00:18	033110B-1
	Zinc	474	ug/L	500	ug/L	94.9	90.0 – 110.0	P	01-APR-10 00:18	033110B-1
CCV17										
	Aluminum	4940	ug/L	5000	ug/L	98.8	90.0 – 110.0	P	01-APR-10 00:42	033110B-1
	Antimony	474	ug/L	500	ug/L	94.8	90.0 – 110.0	P	01-APR-10 00:42	033110B-1
	Barium	478	ug/L	500	ug/L	95.7	90.0 – 110.0	P	01-APR-10 00:42	033110B-1
	Cadmium	473	ug/L	500	ug/L	94.6	90.0 – 110.0	P	01-APR-10 00:42	033110B-1
	Calcium	4830	ug/L	5000	ug/L	96.6	90.0 – 110.0	P	01-APR-10 00:42	033110B-1
	Chromium	474	ug/L	500	ug/L	94.8	90.0 – 110.0	P	01-APR-10 00:42	033110B-1
	Cobalt	478	ug/L	500	ug/L	95.6	90.0 – 110.0	P	01-APR-10 00:42	033110B-1
	Copper	477	ug/L	500	ug/L	95.3	90.0 – 110.0	P	01-APR-10 00:42	033110B-1
	Iron	4810	ug/L	5000	ug/L	96.2	90.0 – 110.0	P	01-APR-10 00:42	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,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	478	ug/L	500	ug/L	95.5	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Magnesium	4900	ug/L	5000	ug/L	98	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Manganese	480	ug/L	500	ug/L	96	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Potassium	4980	ug/L	5000	ug/L	99.7	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Silver	479	ug/L	500	ug/L	95.7	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Sodium	9630	ug/L	10000	ug/L	96.3	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Vanadium	480	ug/L	500	ug/L	96.1	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Zinc	472	ug/L	500	ug/L	94.4	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
CCV18	Aluminum	4960	ug/L	5000	ug/L	99.2	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
	Antimony	475	ug/L	500	ug/L	95.1	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
	Barium	480	ug/L	500	ug/L	96	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
	Cadmium	476	ug/L	500	ug/L	95.3	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
	Calcium	4840	ug/L	5000	ug/L	96.8	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
	Chromium	476	ug/L	500	ug/L	95.2	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
	Cobalt	480	ug/L	500	ug/L	96.1	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
	Copper	477	ug/L	500	ug/L	95.5	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
	Iron	4820	ug/L	5000	ug/L	96.4	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
	Lead	478	ug/L	500	ug/L	95.6	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
	Magnesium	4930	ug/L	5000	ug/L	98.6	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
	Manganese	481	ug/L	500	ug/L	96.3	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
	Potassium	5110	ug/L	5000	ug/L	102.1	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
	Silver	480	ug/L	500	ug/L	95.9	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
	Sodium	9660	ug/L	10000	ug/L	96.6	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
	Vanadium	481	ug/L	500	ug/L	96.3	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
	Zinc	474	ug/L	500	ug/L	94.8	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
CCV19	Aluminum	4980	ug/L	5000	ug/L	99.5	90.0 - 110.0	P	01-APR-10 01:30	033110B-1
	Antimony	479	ug/L	500	ug/L	95.8	90.0 - 110.0	P	01-APR-10 01:30	033110B-1
	Barium	478	ug/L	500	ug/L	95.6	90.0 - 110.0	P	01-APR-10 01:30	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,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	474	ug/L	500	ug/L	94.9	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Calcium	4890	ug/L	5000	ug/L	97.8	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Chromium	474	ug/L	500	ug/L	94.9	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Cobalt	478	ug/L	500	ug/L	95.6	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Copper	476	ug/L	500	ug/L	95.2	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Iron	4830	ug/L	5000	ug/L	96.6	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Lead	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Magnesium	4990	ug/L	5000	ug/L	99.7	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Manganese	480	ug/L	500	ug/L	95.9	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Potassium	5020	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Silver	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Sodium	9650	ug/L	10000	ug/L	96.5	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Vanadium	480	ug/L	500	ug/L	96	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Zinc	473	ug/L	500	ug/L	94.6	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
CCV20	Aluminum	4940	ug/L	5000	ug/L	98.8	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Antimony	480	ug/L	500	ug/L	96	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Barium	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Cadmium	477	ug/L	500	ug/L	95.5	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Calcium	4840	ug/L	5000	ug/L	96.8	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Chromium	475	ug/L	500	ug/L	95.1	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Cobalt	480	ug/L	500	ug/L	96	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Copper	477	ug/L	500	ug/L	95.5	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Iron	4810	ug/L	5000	ug/L	96.3	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Lead	482	ug/L	500	ug/L	96.3	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Magnesium	4930	ug/L	5000	ug/L	98.7	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Manganese	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Potassium	4920	ug/L	5000	ug/L	98.4	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Silver	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Sodium	9700	ug/L	10000	ug/L	97	90.0 – 110.0	P	01-APR-10 01:53	033110B-1

SW846

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,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	481	ug/L	500	ug/L	96.2	90.0 - 110.0	P	01-APR-10 01:53	033110B-1
	Zinc	474	ug/L	500	ug/L	94.9	90.0 - 110.0	P	01-APR-10 01:53	033110B-1
	Aluminum	4910	ug/L	5000	ug/L	98.2	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Antimony	476	ug/L	500	ug/L	95.2	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Barium	477	ug/L	500	ug/L	95.4	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Cadmium	473	ug/L	500	ug/L	94.6	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Calcium	4840	ug/L	5000	ug/L	96.8	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Chromium	473	ug/L	500	ug/L	94.5	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Cobalt	477	ug/L	500	ug/L	95.5	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Copper	475	ug/L	500	ug/L	95	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Iron	4780	ug/L	5000	ug/L	95.6	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Lead	478	ug/L	500	ug/L	95.7	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Magnesium	4920	ug/L	5000	ug/L	98.4	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Manganese	478	ug/L	500	ug/L	95.7	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Potassium	4970	ug/L	5000	ug/L	99.5	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Silver	477	ug/L	500	ug/L	95.4	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Sodium	9830	ug/L	10000	ug/L	98.3	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Vanadium	480	ug/L	500	ug/L	96	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Zinc	471	ug/L	500	ug/L	94.2	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
CCV22	Aluminum	4900	ug/L	5000	ug/L	98	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Antimony	475	ug/L	500	ug/L	95	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Barium	476	ug/L	500	ug/L	95.3	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Cadmium	472	ug/L	500	ug/L	94.4	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Calcium	4810	ug/L	5000	ug/L	96.2	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Chromium	472	ug/L	500	ug/L	94.4	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Cobalt	477	ug/L	500	ug/L	95.3	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Copper	476	ug/L	500	ug/L	95.2	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Iron	4780	ug/L	5000	ug/L	95.5	90.0 - 110.0	P	01-APR-10 02:47	033110B-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,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	474	ug/L	500	ug/L	94.8	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Magnesium	4870	ug/L	5000	ug/L	97.5	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Manganese	478	ug/L	500	ug/L	95.7	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Potassium	5100	ug/L	5000	ug/L	102.1	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Silver	476	ug/L	500	ug/L	95.3	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Sodium	11600	ug/L	10000	ug/L	115.7	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Vanadium	479	ug/L	500	ug/L	95.7	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Zinc	470	ug/L	500	ug/L	94.1	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
CCV23	Aluminum	4940	ug/L	5000	ug/L	98.8	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
	Antimony	477	ug/L	500	ug/L	95.5	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
	Barium	477	ug/L	500	ug/L	95.4	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
	Cadmium	474	ug/L	500	ug/L	94.9	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
	Calcium	4840	ug/L	5000	ug/L	96.8	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
	Chromium	473	ug/L	500	ug/L	94.7	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
	Cobalt	478	ug/L	500	ug/L	95.5	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
	Copper	475	ug/L	500	ug/L	95	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
	Iron	4780	ug/L	5000	ug/L	95.6	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
	Lead	477	ug/L	500	ug/L	95.4	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
	Magnesium	4900	ug/L	5000	ug/L	98.1	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
	Manganese	479	ug/L	500	ug/L	95.8	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
	Potassium	4920	ug/L	5000	ug/L	98.5	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
	Silver	477	ug/L	500	ug/L	95.4	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
	Sodium	10300	ug/L	10000	ug/L	102.8	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
	Vanadium	479	ug/L	500	ug/L	95.9	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
	Zinc	472	ug/L	500	ug/L	94.4	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
CCV24	Aluminum	4900	ug/L	5000	ug/L	98.1	90.0 - 110.0	P	01-APR-10 04:39	033110B-1
	Antimony	482	ug/L	500	ug/L	96.4	90.0 - 110.0	P	01-APR-10 04:39	033110B-1
	Barium	477	ug/L	500	ug/L	95.3	90.0 - 110.0	P	01-APR-10 04:39	033110B-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,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	475	ug/L	500	ug/L	95	90.0 - 110.0	P	01-APR-10 04:39	033110B-1
	Calcium	4820	ug/L	5000	ug/L	96.5	90.0 - 110.0	P	01-APR-10 04:39	033110B-1
	Chromium	473	ug/L	500	ug/L	94.6	90.0 - 110.0	P	01-APR-10 04:39	033110B-1
	Cobalt	478	ug/L	500	ug/L	95.7	90.0 - 110.0	P	01-APR-10 04:39	033110B-1
	Copper	475	ug/L	500	ug/L	95	90.0 - 110.0	P	01-APR-10 04:39	033110B-1
	Iron	4790	ug/L	5000	ug/L	95.8	90.0 - 110.0	P	01-APR-10 04:39	033110B-1
	Lead	484	ug/L	500	ug/L	96.7	90.0 - 110.0	P	01-APR-10 04:39	033110B-1
	Magnesium	4930	ug/L	5000	ug/L	98.6	90.0 - 110.0	P	01-APR-10 04:39	033110B-1
	Manganese	479	ug/L	500	ug/L	95.8	90.0 - 110.0	P	01-APR-10 04:39	033110B-1
	Potassium	4810	ug/L	5000	ug/L	96.1	90.0 - 110.0	P	01-APR-10 04:39	033110B-1
	Silver	476	ug/L	500	ug/L	95.2	90.0 - 110.0	P	01-APR-10 04:39	033110B-1
	Sodium	9880	ug/L	10000	ug/L	98.8	90.0 - 110.0	P	01-APR-10 04:39	033110B-1
	Vanadium	479	ug/L	500	ug/L	95.9	90.0 - 110.0	P	01-APR-10 04:39	033110B-1
	Zinc	473	ug/L	500	ug/L	94.7	90.0 - 110.0	P	01-APR-10 04:39	033110B-1
CCV25	Aluminum	4910	ug/L	5000	ug/L	98.2	90.0 - 110.0	P	01-APR-10 05:03	033110B-1
	Antimony	476	ug/L	500	ug/L	95.3	90.0 - 110.0	P	01-APR-10 05:03	033110B-1
	Barium	478	ug/L	500	ug/L	95.6	90.0 - 110.0	P	01-APR-10 05:03	033110B-1
	Cadmium	476	ug/L	500	ug/L	95.3	90.0 - 110.0	P	01-APR-10 05:03	033110B-1
	Calcium	4820	ug/L	5000	ug/L	96.5	90.0 - 110.0	P	01-APR-10 05:03	033110B-1
	Chromium	473	ug/L	500	ug/L	94.6	90.0 - 110.0	P	01-APR-10 05:03	033110B-1
	Cobalt	480	ug/L	500	ug/L	95.9	90.0 - 110.0	P	01-APR-10 05:03	033110B-1
	Copper	477	ug/L	500	ug/L	95.5	90.0 - 110.0	P	01-APR-10 05:03	033110B-1
	Iron	4800	ug/L	5000	ug/L	96	90.0 - 110.0	P	01-APR-10 05:03	033110B-1
	Lead	481	ug/L	500	ug/L	96.1	90.0 - 110.0	P	01-APR-10 05:03	033110B-1
	Magnesium	4920	ug/L	5000	ug/L	98.4	90.0 - 110.0	P	01-APR-10 05:03	033110B-1
	Manganese	480	ug/L	500	ug/L	96.1	90.0 - 110.0	P	01-APR-10 05:03	033110B-1
	Potassium	4880	ug/L	5000	ug/L	97.6	90.0 - 110.0	P	01-APR-10 05:03	033110B-1
	Silver	476	ug/L	500	ug/L	95.2	90.0 - 110.0	P	01-APR-10 05:03	033110B-1
	Sodium	9800	ug/L	10000	ug/L	98	90.0 - 110.0	P	01-APR-10 05:03	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,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>
CCV26	Vanadium	481	ug/L	500	ug/L	96.1	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
	Zinc	473	ug/L	500	ug/L	94.7	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
	Aluminum	4900	ug/L	5000	ug/L	98	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Antimony	474	ug/L	500	ug/L	94.8	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Barium	477	ug/L	500	ug/L	95.5	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Cadmium	476	ug/L	500	ug/L	95.1	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Calcium	4820	ug/L	5000	ug/L	96.4	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Chromium	474	ug/L	500	ug/L	94.7	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Cobalt	480	ug/L	500	ug/L	96	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Copper	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Iron	4810	ug/L	5000	ug/L	96.1	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Lead	478	ug/L	500	ug/L	95.7	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Magnesium	4880	ug/L	5000	ug/L	97.6	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Manganese	480	ug/L	500	ug/L	96	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Potassium	4910	ug/L	5000	ug/L	98.2	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Silver	476	ug/L	500	ug/L	95.2	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Sodium	9780	ug/L	10000	ug/L	97.8	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Vanadium	480	ug/L	500	ug/L	96	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Zinc	473	ug/L	500	ug/L	94.7	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
CCV27	Aluminum	4970	ug/L	5000	ug/L	99.4	90.0 – 110.0	P	01-APR-10 05:48	033110B-1
	Antimony	478	ug/L	500	ug/L	95.5	90.0 – 110.0	P	01-APR-10 05:48	033110B-1
	Barium	477	ug/L	500	ug/L	95.3	90.0 – 110.0	P	01-APR-10 05:48	033110B-1
	Cadmium	474	ug/L	500	ug/L	94.8	90.0 – 110.0	P	01-APR-10 05:48	033110B-1
	Calcium	4810	ug/L	5000	ug/L	96.3	90.0 – 110.0	P	01-APR-10 05:48	033110B-1
	Chromium	473	ug/L	500	ug/L	94.6	90.0 – 110.0	P	01-APR-10 05:48	033110B-1
	Cobalt	480	ug/L	500	ug/L	95.9	90.0 – 110.0	P	01-APR-10 05:48	033110B-1
	Copper	477	ug/L	500	ug/L	95.3	90.0 – 110.0	P	01-APR-10 05:48	033110B-1
	Iron	4800	ug/L	5000	ug/L	96.1	90.0 – 110.0	P	01-APR-10 05:48	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,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	482	ug/L	500	ug/L	96.5	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Magnesium	4870	ug/L	5000	ug/L	97.5	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Manganese	479	ug/L	500	ug/L	95.8	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Potassium	4950	ug/L	5000	ug/L	98.9	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Silver	477	ug/L	500	ug/L	95.5	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Sodium	9740	ug/L	10000	ug/L	97.4	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Vanadium	479	ug/L	500	ug/L	95.9	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Zinc	473	ug/L	500	ug/L	94.6	90.0 - 110.0	P	01-APR-10 05:48	033110B-1

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: HG3,ICPMS5,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	.199	ug/L	.2	ug/L	99.5	70.0 - 130.0	AV	17-MAR-10 09:52	031710S2-5
	Nickel	2.28	ug/L	2	ug/L	114.1	70.0 - 130.0	MS	13-APR-10 19:16	100413-2
	Thallium	1.22	ug/L	1	ug/L	121.8	70.0 - 130.0	MS	13-APR-10 19:16	100413-2
	Beryllium	.662	ug/L	.5	ug/L	132.4	70.0 - 130.0	MS	13-APR-10 19:16	100413-2
	Uranium	.292	ug/L	.2	ug/L	146	70.0 - 130.0	MS	13-APR-10 19:16	100413-2
	Selenium	5.77	ug/L	5	ug/L	115.4	70.0 - 130.0	MS	13-APR-10 19:16	100413-2
	Arsenic	6.05	ug/L	5	ug/L	121	70.0 - 130.0	MS	13-APR-10 19:16	100413-2
	Nickel	2.25	ug/L	2	ug/L	112.6	70.0 - 130.0	MS	14-APR-10 10:01	100413-4
	Beryllium	.545	ug/L	.5	ug/L	109	70.0 - 130.0	MS	14-APR-10 10:01	100413-4
PQL01										
	Aluminum	204	ug/L	200	ug/L	101.9	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Iron	102	ug/L	100	ug/L	102.4	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Lead	11.2	ug/L	10	ug/L	112	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Magnesium	311	ug/L	300	ug/L	103.7	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Manganese	10.3	ug/L	10	ug/L	103.1	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Potassium	150	ug/L	150	ug/L	99.9	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Silver	4.61	ug/L	5	ug/L	92.3	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Sodium	280	ug/L	300	ug/L	93.3	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Antimony	9.66	ug/L	10	ug/L	96.6	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Barium	4.99	ug/L	5	ug/L	99.9	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Cadmium	5.05	ug/L	5	ug/L	101	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Chromium	4.91	ug/L	5	ug/L	98.3	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Cobalt	5.18	ug/L	5	ug/L	103.6	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Copper	10	ug/L	10	ug/L	100	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Vanadium	4.74	ug/L	5	ug/L	94.8	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Zinc	10.1	ug/L	10	ug/L	101	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Calcium	212	ug/L	200	ug/L	106.2	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
ICB01	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	17-MAR-10 09:50	031710S2-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 18:48	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 18:48	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 18:48	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 18:48	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 18:48	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 18:48	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 18:48	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 18:48	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 18:48	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 18:48	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 18:48	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 18:48	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 18:48	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 18:48	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 18:48	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 18:48	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 18:48	033110B-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 19:12	100413-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 19:12	100413-2
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 19:12	100413-2
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 19:12	100413-2
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 19:12	100413-2
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 19:12	100413-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	14-APR-10 09:57	100413-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	14-APR-10 09:57	100413-4
CCB01	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	17-MAR-10 09:55	031710S2-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 19:01	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 19:01	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:01	033110B-1

SW846

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

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	31-MAR-10 19:01	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 19:01	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 19:01	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 19:01	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 19:01	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 19:01	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 19:01	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 19:01	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 19:01	033110B-1
	Potassium	298.29	+/-250		64.0	250	SOL	P	31-MAR-10 19:01	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:01	033110B-1
	Sodium	140.13	+/-250	J	70.0	250	SOL	P	31-MAR-10 19:01	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:01	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 19:01	033110B-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 19:32	100413-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 19:32	100413-2
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 19:32	100413-2
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 19:32	100413-2
	Thallium	0.324	+/-1	J	0.3	1.0	SOL	MS	13-APR-10 19:32	100413-2
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 19:32	100413-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	14-APR-10 10:13	100413-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	14-APR-10 10:13	100413-4
CCB02	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	17-MAR-10 10:15	031710S2-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 19:08	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 19:08	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:08	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:08	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 19:08	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 19:08	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 19:08	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

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>
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 19:08	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 19:08	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 19:08	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 19:08	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 19:08	033110B-1
	Potassium	98.66	+/-250	J	64.0	250	SOL	P	31-MAR-10 19:08	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:08	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 19:08	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:08	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 19:08	033110B-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 20:13	100413-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 20:13	100413-2
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 20:13	100413-2
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 20:13	100413-2
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 20:13	100413-2
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 20:13	100413-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	14-APR-10 10:29	100413-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	14-APR-10 10:29	100413-4
CCB03	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	17-MAR-10 10:35	031710S2-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 19:29	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 19:29	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:29	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:29	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 19:29	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 19:29	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 19:29	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 19:29	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 19:29	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 19:29	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 19:29	033110B-1

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Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

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>
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 19:29	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 19:29	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:29	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 19:29	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:29	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 19:29	033110B-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 20:46	100413-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 20:46	100413-2
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 20:46	100413-2
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 20:46	100413-2
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 20:46	100413-2
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 20:46	100413-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	14-APR-10 10:39	100413-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	14-APR-10 10:39	100413-4
CCB04	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	17-MAR-10 10:55	031710S2-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 19:50	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 19:50	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:50	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:50	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 19:50	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 19:50	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 19:50	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 19:50	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 19:50	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 19:50	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 19:50	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 19:50	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 19:50	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:50	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 19:50	033110B-1

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Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:50	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 19:50	033110B-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 21:23	100413-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 21:23	100413-2
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 21:23	100413-2
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 21:23	100413-2
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 21:23	100413-2
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 21:23	100413-2
CCB05										
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	17-MAR-10 11:15	031710S2-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 20:21	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 20:21	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 20:21	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 20:21	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 20:21	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 20:21	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 20:21	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 20:21	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 20:21	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 20:21	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 20:21	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 20:21	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 20:21	033110B-1
	Silver	-1.07	+/-5	J	1.0	5.0	SOL	P	31-MAR-10 20:21	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 20:21	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 20:21	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 20:21	033110B-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 22:04	100413-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 22:04	100413-2
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 22:04	100413-2
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 22:04	100413-2

SW846

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

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>
CCB06	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 22:04	100413-2
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 22:04	100413-2
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	17-MAR-10 11:35	031710S2-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 20:48	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 20:48	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 20:48	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 20:48	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 20:48	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 20:48	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 20:48	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 20:48	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 20:48	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 20:48	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 20:48	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 20:48	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 20:48	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 20:48	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 20:48	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 20:48	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 20:48	033110B-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 22:37	100413-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 22:37	100413-2
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 22:37	100413-2
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 22:37	100413-2
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 22:37	100413-2
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 22:37	100413-2
CCB07	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 21:18	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 21:18	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:18	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

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	31-MAR-10 21:18	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 21:18	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 21:18	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 21:18	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 21:18	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 21:18	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 21:18	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 21:18	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 21:18	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 21:18	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:18	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 21:18	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:18	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 21:18	033110B-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 23:05	100413-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 23:05	100413-2
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 23:05	100413-2
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 23:05	100413-2
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 23:05	100413-2
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 23:05	100413-2
CCB08	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 21:41	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 21:41	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:41	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:41	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 21:41	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 21:41	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 21:41	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 21:41	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 21:41	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 21:41	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

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>
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 21:41	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 21:41	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 21:41	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:41	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 21:41	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:41	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 21:41	033110B-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 23:51	100413-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 23:51	100413-2
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 23:51	100413-2
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 23:51	100413-2
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 23:51	100413-2
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 23:51	100413-2
CCB09	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 21:57	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 21:57	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:57	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:57	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 21:57	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 21:57	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 21:57	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 21:57	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 21:57	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 21:57	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 21:57	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 21:57	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 21:57	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:57	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 21:57	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:57	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 21:57	033110B-1

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Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

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>
CCB10	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	14-APR-10 00:36	100413-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	14-APR-10 00:36	100413-2
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	14-APR-10 00:36	100413-2
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	14-APR-10 00:36	100413-2
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	14-APR-10 00:36	100413-2
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	14-APR-10 00:36	100413-2
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 22:14	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 22:14	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:14	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:14	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 22:14	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 22:14	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 22:14	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 22:14	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 22:14	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 22:14	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 22:14	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 22:14	033110B-1
CCB11	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 22:14	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:14	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 22:14	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:14	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 22:14	033110B-1
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 22:37	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 22:37	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:37	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:37	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 22:37	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 22:37	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

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>
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 22:37	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 22:37	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 22:37	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 22:37	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 22:37	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 22:37	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 22:37	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:37	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 22:37	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:37	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 22:37	033110B-1
CCB12	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 22:58	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 22:58	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:58	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:58	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 22:58	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 22:58	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 22:58	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 22:58	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 22:58	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 22:58	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 22:58	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 22:58	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 22:58	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:58	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 22:58	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:58	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 22:58	033110B-1
CCB13	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 23:20	033110B-1

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Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

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	31-MAR-10 23:20	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 23:20	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 23:20	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 23:20	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 23:20	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 23:20	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 23:20	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 23:20	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 23:20	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 23:20	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 23:20	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 23:20	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 23:20	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 23:20	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 23:20	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 23:20	033110B-1
CCB14	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 23:46	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 23:46	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 23:46	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 23:46	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 23:46	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 23:46	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 23:46	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 23:46	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 23:46	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 23:46	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 23:46	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 23:46	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 23:46	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 23:46	033110B-1

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Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

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	31-MAR-10 23:46	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 23:46	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 23:46	033110B-1
CCB15	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 00:04	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 00:04	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:04	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:04	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 00:04	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 00:04	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 00:04	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 00:04	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 00:04	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 00:04	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 00:04	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 00:04	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	01-APR-10 00:04	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:04	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	01-APR-10 00:04	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:04	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 00:04	033110B-1
CCB16	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 00:20	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 00:20	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:20	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:20	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 00:20	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 00:20	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 00:20	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 00:20	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 00:20	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

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	01-APR-10 00:20	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 00:20	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 00:20	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	01-APR-10 00:20	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:20	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	01-APR-10 00:20	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:20	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 00:20	033110B-1
CCB17	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 00:45	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 00:45	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:45	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:45	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 00:45	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 00:45	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 00:45	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 00:45	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 00:45	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 00:45	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 00:45	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 00:45	033110B-1
	Potassium	130.01	+/-250	J	64.0	250	SOL	P	01-APR-10 00:45	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:45	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	01-APR-10 00:45	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:45	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 00:45	033110B-1
CCB18	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 01:09	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 01:09	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:09	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:09	033110B-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ng/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	01-APR-10 01:09	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 01:09	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 01:09	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 01:09	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 01:09	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 01:09	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 01:09	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 01:09	033110B-1
	Potassium	195.24	+/-250	J	64.0	250	SOL	P	01-APR-10 01:09	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:09	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	01-APR-10 01:09	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:09	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 01:09	033110B-1
CCB19	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 01:32	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 01:32	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:32	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:32	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 01:32	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 01:32	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 01:32	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 01:32	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 01:32	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 01:32	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 01:32	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 01:32	033110B-1
	Potassium	168.28	+/-250	J	64.0	250	SOL	P	01-APR-10 01:32	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:32	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	01-APR-10 01:32	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:32	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 01:32	033110B-1

SW846

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

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>
CCB20										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 01:55	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 01:55	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:55	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:55	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 01:55	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 01:55	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 01:55	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 01:55	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 01:55	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 01:55	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 01:55	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 01:55	033110B-1
	Potassium	90.72	+/-250	J	64.0	250	SOL	P	01-APR-10 01:55	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:55	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	01-APR-10 01:55	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:55	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 01:55	033110B-1
CCB21										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 02:21	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 02:21	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 02:21	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 02:21	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 02:21	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 02:21	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 02:21	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 02:21	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 02:21	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 02:21	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 02:21	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 02:21	033110B-1
	Potassium	135.28	+/-250	J	64.0	250	SOL	P	01-APR-10 02:21	033110B-1

SW846

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

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>
CCB22	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 02:21	033110B-1
	Sodium	101.82	+/-250	J	70.0	250	SOL	P	01-APR-10 02:21	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 02:21	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 02:21	033110B-1
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 02:49	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 02:49	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 02:49	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 02:49	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 02:49	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 02:49	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 02:49	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 02:49	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 02:49	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 02:49	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 02:49	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 02:49	033110B-1
	Potassium	180.17	+/-250	J	64.0	250	SOL	P	01-APR-10 02:49	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 02:49	033110B-1
	Sodium	1333.6	+/-250		70.0	250	SOL	P	01-APR-10 02:49	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 02:49	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 02:49	033110B-1
CCB23	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 03:15	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 03:15	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 03:15	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 03:15	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 03:15	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 03:15	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 03:15	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 03:15	033110B-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

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>
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 03:15	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 03:15	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 03:15	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 03:15	033110B-1
	Potassium	79.28	+/-250	J	64.0	250	SOL	P	01-APR-10 03:15	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 03:15	033110B-1
	Sodium	570.33	+/-250		70.0	250	SOL	P	01-APR-10 03:15	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 03:15	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 03:15	033110B-1
CCB24	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 04:41	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 04:41	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 04:41	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 04:41	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 04:41	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 04:41	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 04:41	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 04:41	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 04:41	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 04:41	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 04:41	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 04:41	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	01-APR-10 04:41	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 04:41	033110B-1
	Sodium	192.35	+/-250	J	70.0	250	SOL	P	01-APR-10 04:41	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 04:41	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 04:41	033110B-1
CCB25	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 05:05	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 05:05	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:05	033110B-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

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>
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:05	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 05:05	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 05:05	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 05:05	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 05:05	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 05:05	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 05:05	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 05:05	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 05:05	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	01-APR-10 05:05	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:05	033110B-1
	Sodium	165.15	+/-250	J	70.0	250	SOL	P	01-APR-10 05:05	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:05	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 05:05	033110B-1
CCB26	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 05:27	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 05:27	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:27	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:27	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 05:27	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 05:27	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 05:27	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 05:27	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 05:27	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 05:27	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 05:27	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 05:27	033110B-1
	Potassium	94.5	+/-250	J	64.0	250	SOL	P	01-APR-10 05:27	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:27	033110B-1
	Sodium	132.11	+/-250	J	70.0	250	SOL	P	01-APR-10 05:27	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:27	033110B-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2138-1

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>
CCB27	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 05:27	033110B-1
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 05:51	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 05:51	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:51	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:51	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 05:51	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 05:51	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 05:51	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 05:51	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 05:51	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 05:51	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 05:51	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 05:51	033110B-1
	Potassium	118.7	+/-250	J	64.0	250	SOL	P	01-APR-10 05:51	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:51	033110B-1
	Sodium	102.83	+/-250	J	70.0	250	SOL	P	01-APR-10 05:51	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:51	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 05:51	033110B-1

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 10-2138-1

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>
1202056652	Mercury	3.74	ug/kg	+/-11	U	AV	3.74	11
1202056979	Antimony	313	ug/Kg	+/-949	U	P	313	949
	Barium	94.9	ug/Kg	+/-474	U	P	94.9	474
	Cadmium	94.9	ug/Kg	+/-474	U	P	94.9	474
	Calcium	7590	ug/Kg	+/-23700	U	P	7590	23700
	Chromium	142	ug/Kg	+/-474	U	P	142	474
	Cobalt	142	ug/Kg	+/-474	U	P	142	474
	Copper	285	ug/Kg	+/-949	U	P	285	949
	Iron	10500	ug/Kg	+/-23700	J	P	7590	23700
	Lead	237	ug/Kg	+/-949	U	P	237	949
	Aluminum	6450	ug/Kg	+/-19000	U	P	6450	19000
	Magnesium	8060	ug/Kg	+/-28500	U	P	8060	28500
	Manganese	190	ug/Kg	+/-949	U	P	190	949
	Potassium	6070	ug/Kg	+/-23700	U	P	6070	23700
	Silver	94.9	ug/Kg	+/-474	U	P	94.9	474
	Sodium	13300	ug/Kg	+/-23700	J	P	6640	23700
	Vanadium	94.9	ug/Kg	+/-474	U	P	94.9	474
	Zinc	313	ug/Kg	+/-949	U	P	313	949
1202056985	Arsenic	0.179	mg/kg	+/-0.894	U	MS	0.179	0.894
	Beryllium	0.0179	mg/kg	+/-0.0895	U	MS	0.0179	0.0895
	Nickel	0.0895	mg/kg	+/-0.358	U	MS	0.0895	0.358
	Selenium	0.447	mg/kg	+/-0.894	U	MS	0.447	0.894
	Thallium	0.0537	mg/kg	+/-0.179	U	MS	0.0537	0.179
	Uranium	0.0118	mg/kg	+/-0.0358	U	MS	0.0118	0.0358

METALS
-4-
Interference Check Sample

SDG No: 10-2138-1

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>
ICSA01									
	Aluminum	502000	ug/L	500000	ug/L	100	80.0 – 120.0	31-MAR-10 18:53	033110B-1
	Antimony	0.296	ug/L					31-MAR-10 18:53	033110B-1
	Barium	0.205	ug/L					31-MAR-10 18:53	033110B-1
	Cadmium	-1.97	ug/L					31-MAR-10 18:53	033110B-1
	Calcium	480000	ug/L	500000	ug/L	96	80.0 – 120.0	31-MAR-10 18:53	033110B-1
	Chromium	1.07	ug/L					31-MAR-10 18:53	033110B-1
	Cobalt	-6.06	ug/L					31-MAR-10 18:53	033110B-1
	Copper	4.63	ug/L					31-MAR-10 18:53	033110B-1
	Iron	190000	ug/L	200000	ug/L	95	80.0 – 120.0	31-MAR-10 18:53	033110B-1
	Lead	-4.1	ug/L					31-MAR-10 18:53	033110B-1
	Magnesium	484000	ug/L	500000	ug/L	96.8	80.0 – 120.0	31-MAR-10 18:53	033110B-1
	Manganese	3.58	ug/L					31-MAR-10 18:53	033110B-1
	Potassium	-119.0	ug/L					31-MAR-10 18:53	033110B-1
	Silver	-2.44	ug/L					31-MAR-10 18:53	033110B-1
	Sodium	38.8	ug/L					31-MAR-10 18:53	033110B-1
	Vanadium	-0.082	ug/L					31-MAR-10 18:53	033110B-1
	Zinc	8.58	ug/L					31-MAR-10 18:53	033110B-1
ICSAB01									
	Aluminum	507000	ug/L	500000	ug/L	101	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Antimony	504	ug/L	500	ug/L	101	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Barium	499	ug/L	500	ug/L	99.8	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Cadmium	476	ug/L	500	ug/L	95.3	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Calcium	484000	ug/L	500000	ug/L	96.8	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Chromium	484	ug/L	500	ug/L	96.7	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Cobalt	442	ug/L	500	ug/L	88.5	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Copper	542	ug/L	500	ug/L	108	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Iron	192000	ug/L	200000	ug/L	96	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Lead	464	ug/L	500	ug/L	92.8	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Magnesium	485000	ug/L	500000	ug/L	97	80.0 – 120.0	31-MAR-10 18:55	033110B-1

METALS

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Interference Check Sample

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

ICS:

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Manganese	486	ug/L	500	ug/L	97.2	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Potassium	5550	ug/L	5000	ug/L	111	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Silver	267	ug/L	250	ug/L	107	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Sodium	5330	ug/L	5000	ug/L	107	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Vanadium	513	ug/L	500	ug/L	103	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Zinc	494	ug/L	500	ug/L	98.8	80.0 – 120.0	31-MAR-10 18:55	033110B-1

METALS
-4-
Interference Check Sample

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Arsenic	-0.361	ug/L					13-APR-10 19:20	100413-2
	Beryllium	0.103	ug/L					13-APR-10 19:20	100413-2
	Nickel	2.78	ug/L					13-APR-10 19:20	100413-2
	Selenium	-1.05	ug/L					13-APR-10 19:20	100413-2
	Thallium	-0.004	ug/L					13-APR-10 19:20	100413-2
	Uranium	-0.012	ug/L					13-APR-10 19:20	100413-2
ICSAB01									
	Arsenic	20.6	ug/L	20	ug/L	103	80.0 - 120.0	13-APR-10 19:24	100413-2
	Beryllium	22.1	ug/L	20	ug/L	110	80.0 - 120.0	13-APR-10 19:24	100413-2
	Nickel	21.7	ug/L	23.31	ug/L	93	80.0 - 120.0	13-APR-10 19:24	100413-2
	Selenium	20.9	ug/L	20	ug/L	104	80.0 - 120.0	13-APR-10 19:24	100413-2
	Thallium	19.3	ug/L	20	ug/L	96.7	80.0 - 120.0	13-APR-10 19:24	100413-2
	Uranium	21.4	ug/L	20	ug/L	107	80.0 - 120.0	13-APR-10 19:24	100413-2

METALS
-4-
Interference Check Sample

SDG No: 10-2138-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Beryllium	0.08	ug/L					14-APR-10 10:04	100413-4
	Nickel	2.86	ug/L					14-APR-10 10:04	100413-4
ICSAB01	Beryllium	19.9	ug/L	20	ug/L	99.7	80.0 - 120.0	14-APR-10 10:07	100413-4
	Nickel	22.4	ug/L	23.31	ug/L	96.3	80.0 - 120.0	14-APR-10 10:07	100413-4

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2138-1 **Client ID** RE46-10-13534S**Contract:** LANL01004 **Level:** Low**Matrix:** SOIL **% Solids:** 86**Sample ID:** 248256001 **Spike ID:** 1202056655

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/kg	75-125	204		71.5		140	94.8		AV

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-2138-1 Client ID RE46-10-13534SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 86

Sample ID: 248256001 Spike ID: 1202056657

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/kg	75-125	203		71.5		131	101		AV

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2138-1 Client ID RE36-10-8464S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 90.5

Sample ID: 248247001 Spike ID: 1202056982

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg		6570000		3680000		508000	569	N/A	P
Antimony	ug/Kg	75-125	41600		347	U	50800	81.8		P
Barium	ug/Kg	75-125	89400		43700		50800	90		P
Cadmium	ug/Kg	75-125	45500		105	U	50800	89.5		P
Calcium	ug/Kg	75-125	2060000		1410000		508000	129	N	P
Chromium	ug/Kg	75-125	56800		8370		50800	95.3		P
Cobalt	ug/Kg	75-125	51400		6750		50800	87.9		P
Copper	ug/Kg	75-125	57000		5360		50800	102		P
Iron	ug/Kg		10900000		9910000		508000	186	N/A	P
Lead	ug/Kg	75-125	77900		7580		50800	138	N	P
Magnesium	ug/Kg	75-125	1410000		692000		508000	142	N	P
Manganese	ug/Kg		346000		331000		50800	28.7	N/A	P
Potassium	ug/Kg	75-125	1330000		612000		508000	141	N	P
Silver	ug/Kg	75-125	45300		105	U	50800	89.2		P
Sodium	ug/Kg	75-125	745000		251000		508000	97.2		P
Vanadium	ug/Kg	75-125	58700		7540		50800	101		P
Zinc	ug/Kg	75-125	94100		45400		50800	95.9		P

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-2138-1 Client ID RE36-10-8464SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 90.5

Sample ID: 248247001 Spike ID: 1202056983

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg		6730000		3680000		516000	591	N/A	P
Antimony	ug/Kg	75-125	42200		347	U	51600	81.9		P
Barium	ug/Kg	75-125	91300		43700		51600	92.3		P
Cadmium	ug/Kg	75-125	46200		105	U	51600	89.5		P
Calcium	ug/Kg	75-125	2230000		1410000		516000	160	N	P
Chromium	ug/Kg	75-125	61200		8370		51600	102		P
Cobalt	ug/Kg	75-125	52400		6750		51600	88.5		P
Copper	ug/Kg	75-125	57800		5360		51600	102		P
Iron	ug/Kg		11500000		9910000		516000	303	N/A	P
Lead	ug/Kg	75-125	58000		7580		51600	97.8		P
Magnesium	ug/Kg	75-125	1450000		692000		516000	147	N	P
Manganese	ug/Kg		367000		331000		51600	70.2	N/A	P
Potassium	ug/Kg	75-125	1370000		612000		516000	148	N	P
Silver	ug/Kg	75-125	46200		105	U	51600	89.5		P
Sodium	ug/Kg	75-125	751000		251000		516000	97		P
Vanadium	ug/Kg	75-125	58800		7540		51600	99.3		P
Zinc	ug/Kg	75-125	98100		45400		51600	102		P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2138-1 Client ID RE36-10-8464S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 90.5

Sample ID: 248247001 Spike ID: 1202056988

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Uranium	mg/kg	75-125	5.77		0.55		5.07	103		MS
Thallium	mg/kg	75-125	9.73		0.062	U	10.1	95.5		MS
Arsenic	mg/kg	75-125	9.74		1.16		8.11	106		MS
Beryllium	mg/kg	75-125	5.78		0.561		5.07	103		MS
Nickel	mg/kg	75-125	8.98		4.04		5.07	97.4		MS
Selenium	mg/kg	75-125	2.01		0.517	U	2.03	95.9		MS

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-2138-1 Client ID RE36-10-8464SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 90.5

Sample ID: 248247001 Spike ID: 1202056989

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/kg	75-125	8.71		1.16		7.94	95.1		MS
Beryllium	mg/kg	75-125	5.45		0.561		4.96	98.6		MS
Nickel	mg/kg	75-125	8.63		4.04		4.96	92.5		MS
Selenium	mg/kg	75-125	1.86		0.517	U	1.98	90.6		MS
Thallium	mg/kg	75-125	9.14		0.062	U	9.92	91.8		MS
Uranium	mg/kg	75-125	5.55		0.55		4.96	101		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE46-10-13534D

Sample ID: 248256001

Duplicate ID: 1202056654

Percent Solids for Dup: 86

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-12.7	71.5		44.9		45.7	*	AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE46-10-13534SD

Sample ID: 1202056655

Duplicate ID: 1202056657

Percent Solids for Dup: 86

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-20	204		203		.502		AV

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-8464D

Sample ID: 248247001

Duplicate ID: 1202056980

Percent Solids for Dup: 90.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20%	3680000		3730000		1.35		P
Antimony	ug/Kg		347 U		338 U				P
Barium	ug/Kg	+/-20%	43700		42300		3.13		P
Cadmium	ug/Kg		105 U		102 U				P
Calcium	ug/Kg	+/-20%	1410000		2310000		48.3	*	P
Chromium	ug/Kg	+/-20%	8370		9260		10.1		P
Cobalt	ug/Kg	+/-20%	6750		6480		3.95		P
Copper	ug/Kg	+/-20%	5360		5850		8.78		P
Iron	ug/Kg	+/-20%	9910000		9630000		2.81		P
Lead	ug/Kg	+/-20%	7580		7520		.749		P
Magnesium	ug/Kg	+/-20%	692000		751000		8.22		P
Manganese	ug/Kg	+/-20%	331000		296000		11.3		P
Potassium	ug/Kg	+/-20%	612000		627000		2.37		P
Silver	ug/Kg		105 U		102 U				P
Sodium	ug/Kg	+/-20%	251000		251000		.253		P
Vanadium	ug/Kg	+/-20%	7540		7900		4.66		P
Zinc	ug/Kg	+/-20%	45400		43200		4.94		P

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-8464SD

Sample ID: 1202056982

Duplicate ID: 1202056983

Percent Solids for Dup: 90.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20	6570000		6730000		2.41		P
Antimony	ug/Kg	+/-20	41600		42200		1.51		P
Barium	ug/Kg	+/-20	89400		91300		2.07		P
Cadmium	ug/Kg	+/-20	45500		46200		1.49		P
Calcium	ug/Kg	+/-20	2060000		2230000		7.94		P
Chromium	ug/Kg	+/-20	56800		61200		7.46		P
Cobalt	ug/Kg	+/-20	51400		52400		1.92		P
Copper	ug/Kg	+/-20	57000		57800		1.49		P
Iron	ug/Kg	+/-20	10900000		11500000		5.53		P
Lead	ug/Kg	+/-20	77900		58000		29.3	*	P
Magnesium	ug/Kg	+/-20	1410000		1450000		2.42		P
Manganese	ug/Kg	+/-20	346000		367000		6.06		P
Potassium	ug/Kg	+/-20	1330000		1370000		3.48		P
Silver	ug/Kg	+/-20	45300		46200		1.87		P
Sodium	ug/Kg	+/-20	745000		751000		.797		P
Vanadium	ug/Kg	+/-20	58700		58800		.0648		P
Zinc	ug/Kg	+/-20	94100		98100		4.17		P

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-8464D

Sample ID: 248247001

Duplicate ID: 1202056986

Percent Solids for Dup: 90.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-1.04	1.16		1.13		2.43		MS
Beryllium	mg/kg	+/-20%	0.561		0.566		1.01		MS
Nickel	mg/kg	+/-20%	4.04		4.65		14		MS
Selenium	mg/kg		0.517 U		0.521 U				MS
Thallium	mg/kg		0.062 U		0.0626 U				MS
Uranium	mg/kg	+/-20%	0.55		0.615		11.3		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2138-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-8464SD

Sample ID: 1202056988

Duplicate ID: 1202056989

Percent Solids for Dup: 90.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-20	9.74		8.71		11.2		MS
Beryllium	mg/kg	+/-20	5.78		5.45		5.91		MS
Nickel	mg/kg	+/-20	8.98		8.63		3.95		MS
Selenium	mg/kg	+/-20	2.01		1.86		7.64		MS
Thallium	mg/kg	+/-20	9.73		9.14		6.18		MS
Uranium	mg/kg	+/-20	5.77		5.55		3.97		MS

METALS

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Laboratory Control Sample Summary

SDG NO. 10-2138-1

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>
1202056653	Mercury	ug/kg	5150	5780		112	71.6-128.3	AV

METALS

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Laboratory Control Sample Summary

SDG NO. 10-2138-1

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>
1202056984								
	Antimony	ug/Kg	173000	103000		59.7	71-130	P
	Barium	ug/Kg	198000	181000		91.6	80-120	P
	Cadmium	ug/Kg	60700	57000		93.8	81-120	P
	Calcium	ug/Kg	9870000	9400000		95.3	83-117	P
	Aluminum	ug/Kg	10500000	9750000		92.9	56-144	P
	Chromium	ug/Kg	236000	227000		96	80-120	P
	Cobalt	ug/Kg	91200	89000		97.6	81-120	P
	Copper	ug/Kg	174000	180000		104	81-118	P
	Iron	ug/Kg	18000000	18200000		101	51-149	P
	Lead	ug/Kg	86000	81000		94.2	79-121	P
	Magnesium	ug/Kg	4000000	3770000		94.2	79-122	P
	Manganese	ug/Kg	558000	523000		93.8	81-119	P
	Potassium	ug/Kg	4300000	4100000		95.4	74-127	P
	Silver	ug/Kg	30100	28500		94.6	66-134	P
	Sodium	ug/Kg	1020000	1000000		98	74-127	P
	Vanadium	ug/Kg	115000	118000		102	79-121	P
	Zinc	ug/Kg	594000	560000		94.2	80-121	P

METALS

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Laboratory Control Sample Summary

SDG NO. 10-2138-1

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>
1202056990								
	Arsenic	mg/kg	104	109		104	78-123	MS
	Beryllium	mg/kg	77.6	89.9		116	84-116	MS
	Nickel	mg/kg	134	144		107	78-123	MS
	Selenium	mg/kg	286	297		104	77-123	MS
	Thallium	mg/kg	121	130		108	78-122	MS
	Uranium	mg/kg	2.13	2.04		95.9	73-127	MS

METALS

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Serial Dilution Sample Summary

SDG NO. 10-2138-1 **Client ID** RE46-10-13534L**Contract:** LANL01004**Matrix:** SOLID **Level:** Low**Sample ID:** 248256001 **Serial Dilution ID:** 1202056656

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Mercury	1.14		1.05		7.89			AV

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-2138-1 Client ID RE36-10-8464L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 248247001 Serial Dilution ID: 1202056981

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	35000		35900		2.43		10	P
Antimony	3.3	U	16.5	U				P
Barium	415		423		1.93		10	P
Cadmium	1	U	5	U				P
Calcium	13400		13700		1.87		10	P
Chromium	79.5		81		1.89		10	P
Cobalt	64.1		66		2.96			P
Copper	50.9		47	J	7.66			P
Iron	94100		96500		2.55		10	P
Lead	72		75.5		4.86			P
Magnesium	6570		6750		2.74		10	P
Manganese	3140		3260		3.66		10	P
Potassium	5810		6000		3.27		10	P
Silver	1	U	5	U				P
Sodium	2390		2870		19.9			P
Vanadium	71.6		70.5		1.54		10	P
Zinc	431		437		1.39		10	P

METALS

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Serial Dilution Sample Summary

SDG NO. 10-2138-1 Client ID RE36-10-8464L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 248247001 Serial Dilution ID: 1202056987

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Arsenic	5.61		5.3	J	5.53			MS
Beryllium	2.71		2.94		8.49			MS
Nickel	19.5		21.7		11.3			MS
Selenium	2.5	U	12.5	U				MS
Thallium	.3	U	1.5	U				MS
Uranium	2.66		2.84		6.77			MS

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2138-1

Method Type: P

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	959149						
1202056979	MB for batch 959149	MB	S	11-MAR-10	.527g	50mL	
1202056984	LCS for batch 959149	LCS	S	11-MAR-10	.518g	50mL	
1202056982	RE36-10-8464S	MS	S	11-MAR-10	.544g	50mL	
1202056983	RE36-10-8464SD	MSD	S	11-MAR-10	.536g	50mL	
1202056980	RE36-10-8464D	DUP	S	11-MAR-10	.54g	50mL	
248247001	RE36-10-8464	SAMPLE	S	11-MAR-10	.525g	50mL	
248247002	RE36-10-8475	SAMPLE	S	11-MAR-10	.514g	50mL	
248247003	RE36-10-8471	SAMPLE	S	11-MAR-10	.522g	50mL	
248247004	RE36-10-8485	SAMPLE	S	11-MAR-10	.507g	50mL	
248247005	RE36-10-8477	SAMPLE	S	11-MAR-10	.523g	50mL	
248247006	RE36-10-8479	SAMPLE	S	11-MAR-10	.52g	50mL	
248247007	RE36-10-8484	SAMPLE	S	11-MAR-10	.505g	50mL	
248247008	RE36-10-8481	SAMPLE	S	11-MAR-10	.513g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2138-1

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 959151							
1202056985	MB for batch 959151	MB	S	11-MAR-10	.559g	50mL	
1202056990	LCS for batch 959151	LCS	S	11-MAR-10	.51g	50mL	
1202056988	RE36-10-8464S	MS	S	11-MAR-10	.545g	50mL	
1202056989	RE36-10-8464SD	MSD	S	11-MAR-10	.557g	50mL	
1202056986	RE36-10-8464D	DUP	S	11-MAR-10	.53g	50mL	
248247001	RE36-10-8464	SAMPLE	S	11-MAR-10	.535g	50mL	
248247002	RE36-10-8475	SAMPLE	S	11-MAR-10	.521g	50mL	
248247003	RE36-10-8471	SAMPLE	S	11-MAR-10	.517g	50mL	
248247004	RE36-10-8485	SAMPLE	S	11-MAR-10	.51g	50mL	
248247005	RE36-10-8477	SAMPLE	S	11-MAR-10	.537g	50mL	
248247006	RE36-10-8479	SAMPLE	S	11-MAR-10	.541g	50mL	
248247007	RE36-10-8484	SAMPLE	S	11-MAR-10	.537g	50mL	
248247008	RE36-10-8481	SAMPLE	S	11-MAR-10	.512g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2138-1

Method Type: AV

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number 958991							
1202056652	MB for batch 958991	MB	S	16-MAR-10	.545g	30mL	
1202056653	LCS for batch 958991	LCS	S	16-MAR-10	.206g	30mL	
1202056655	RE46-10-13534S	MS	S	16-MAR-10	.5g	30mL	
1202056657	RE46-10-13534SD	MSD	S	16-MAR-10	.534g	30mL	
1202056654	RE46-10-13534D	DUP	S	16-MAR-10	.549g	30mL	
248247001	RE36-10-8464	SAMPLE	S	16-MAR-10	.504g	30mL	
248247002	RE36-10-8475	SAMPLE	S	16-MAR-10	.554g	30mL	
248247003	RE36-10-8471	SAMPLE	S	16-MAR-10	.546g	30mL	
248247004	RE36-10-8485	SAMPLE	S	16-MAR-10	.558g	30mL	
248247005	RE36-10-8477	SAMPLE	S	16-MAR-10	.5g	30mL	
248247006	RE36-10-8479	SAMPLE	S	16-MAR-10	.527g	30mL	
248247007	RE36-10-8484	SAMPLE	S	16-MAR-10	.534g	30mL	
248247008	RE36-10-8481	SAMPLE	S	16-MAR-10	.559g	30mL	

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: 10-2138-1

Method: MS

Data File: 100413-2

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	18:56:00			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

[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	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		

Metals
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Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 13-APR-10

End Date: 14-APR-10

Client Sdg: 10-2138-1

Method MS

Data File: 100413-4

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	09:45:00					X											X								
S10	1	09:48:00					X											X								
S100	1	09:51:00					X											X								
ICV01	1	09:54:00					X											X								
ICB01	1	09:57:00					X											X								
CRDL01	1	10:01:00					X											X								
ICSA01	1	10:04:00					X											X								
ICSAB01	1	10:07:00					X											X								
CCV01	1	10:10:00					X											X								
CCB01	1	10:13:00					X											X								
ZZZZZZ	2	10:16:00																								
ZZZZZZ	40	10:20:00																								
ZZZZZZ	2	10:23:00																								
CCV02	1	10:26:00					X											X								
CCB02	1	10:29:00					X											X								
248247004	10	10:32:00					X											X								
CCV03	1	10:36:00					X											X								
CCB03	1	10:39:00					X											X								

Metals
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Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: HG3

Start Date: 17-MAR-10

End Date: 17-MAR-10

Client Sdg: 10-2138-1

Method AV

Data File: 031710S2-5

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	09:38:00															X									
S0.2	1	09:40:00															X									
S0.5	1	09:42:00															X									
S2.0	1	09:43:00															X									
S5.0	1	09:45:00															X									
S10.0	1	09:47:00															X									
ICV01	1	09:48:00															X									
ICB01	1	09:50:00															X									
CRDL01	1	09:52:00															X									
CCV01	1	09:53:00															X									
CCB01	1	09:55:00															X									
ZZZZZ	1	09:57:00																								
ZZZZZ	10	09:58:00																								
ZZZZZ	1	10:00:00																								
ZZZZZ	1	10:02:00																								
ZZZZZ	1	10:03:00																								
ZZZZZ	1	10:05:00																								
ZZZZZ	5	10:07:00																								
ZZZZZ	1	10:08:00																								
ZZZZZ	1	10:10:00																								
ZZZZZ	1	10:12:00																								
CCV02	1	10:13:00															X									
CCB02	1	10:15:00															X									
ZZZZZ	1	10:17:00																								
ZZZZZ	1	10:18:00																								
ZZZZZ	1	10:20:00																								
ZZZZZ	1	10:22:00																								
ZZZZZ	1	10:24:00																								
ZZZZZ	1	10:25:00																								
ZZZZZ	1	10:27:00																								
ZZZZZ	1	10:28:00																								
ZZZZZ	1	10:30:00																								
ZZZZZ	1	10:32:00																								
CCV03	1	10:33:00															X									
CCB03	1	10:35:00															X									
ZZZZZ	1	10:37:00																								
ZZZZZ	1	10:38:00																								
ZZZZZ	1	10:40:00																								
ZZZZZ	1	10:42:00																								
ZZZZZ	1	10:43:00																								

Metals
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Analysis Run Log

Samp No.	D/F	Run Time
1202056652	1	10:45:00
1202056653	10	10:47:00
248247001	1	10:49:00
248247002	1	10:50:00
248247003	1	10:52:00
CCV04	1	10:54:00
CCB04	1	10:55:00
248247004	1	10:57:00
248247005	1	10:59:00
248247006	1	11:00:00
248247007	1	11:02:00
248247008	1	11:04:00
ZZZZZZ	1	11:05:00
ZZZZZZ	1	11:07:00
ZZZZZZ	1	11:09:00
ZZZZZZ	1	11:10:00
ZZZZZZ	1	11:12:00
CCV05	1	11:14:00
CCB05	1	11:15:00
1202056654	1	11:17:00
1202056655	1	11:19:00
1202056657	1	11:20:00
1202056656	5	11:22:00
ZZZZZZ	1	11:24:00
ZZZZZZ	1	11:25:00
ZZZZZZ	1	11:27:00
ZZZZZZ	1	11:29:00
ZZZZZZ	1	11:30:00
ZZZZZZ	1	11:32:00
CCV06	1	11:34:00
CCB06	1	11:35:00

Metals
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Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA4

Start Date: 31-MAR-10

End Date: 01-APR-10

Client Sdg: 10-2138-1

Method P

Data File: 033110B-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	18:36:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
S0.1	1	18:39:00		X		X		X		X	X		X		X				X		X				X	X
S0.5	1	18:41:00	X	X		X		X	X	X	X	X		X	X	X			X		X				X	X
SCAL	1	18:43:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
S10	1	18:45:00	X						X				X		X							X				
ICV01	1	18:47:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICB01	1	18:48:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
PQL01	1	18:51:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICSA01	1	18:53:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICSAB01	1	18:55:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR01	1	18:56:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR02	1	18:57:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV01	1	18:59:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB01	1	19:01:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV02	1	19:06:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB02	1	19:08:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	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	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB03	1	19:29:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	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	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB04	1	19:50:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	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																								

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time																		
CCV05	1	20:18:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB05	1	20:21:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	20:23:00																		
ZZZZZZ	1	20:27:00																		
ZZZZZZ	1	20:29:00																		
ZZZZZZ	1	20:31:00																		
ZZZZZZ	1	20:33:00																		
ZZZZZZ	5	20:35:00																		
ZZZZZZ	1	20:37:00																		
ZZZZZZ	1	20:40:00																		
ZZZZZZ	1	20:43:00																		
CCV06	1	20:46:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB06	1	20:48:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	20:51:00																		
ZZZZZZ	1	20:54:00																		
ZZZZZZ	1	20:56:00																		
ZZZZZZ	1	20:59:00																		
ZZZZZZ	1	21:02:00																		
ZZZZZZ	1	21:04:00																		
ZZZZZZ	1	21:06:00																		
ZZZZZZ	1	21:08:00																		
ZZZZZZ	1	21:11:00																		
ZZZZZZ	1	21:13:00																		
CCV07	1	21:16:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB07	1	21:18:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	21:21:00																		
ZZZZZZ	1	21:24:00																		
ZZZZZZ	1	21:25:00																		
ZZZZZZ	1	21:27:00																		
ZZZZZZ	1	21:29:00																		
ZZZZZZ	1	21:31:00																		
ZZZZZZ	1	21:33:00																		
ZZZZZZ	5	21:36:00																		
ZZZZZZ	1	21:37:00																		
CCV08	1	21:39:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB08	1	21:41:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	21:45:00																		
ZZZZZZ	1	21:47:00																		
ZZZZZZ	1	21:49:00																		
ZZZZZZ	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	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB09	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	22:03:00																								
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	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB10	1	22:14:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	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	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB11	1	22:37:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	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	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB12	1	22:58:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	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																								

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time																		
CCV13	1	23:18:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB13	1	23:20:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	23:23:00																		
ZZZZZZ	1	23:25:00																		
ZZZZZZ	1	23:27:00																		
ZZZZZZ	1	23:29:00																		
ZZZZZZ	1	23:32:00																		
ZZZZZZ	1	23:34:00																		
ZZZZZZ	1	23:35:00																		
ZZZZZZ	1	23:38:00																		
ZZZZZZ	1	23:40:00																		
ZZZZZZ	1	23:42:00																		
CCV14	1	23:44:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB14	1	23:46:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	23:49:00																		
ZZZZZZ	1	23:52:00																		
ZZZZZZ	1	23:53:00																		
ZZZZZZ	1	23:55:00																		
ZZZZZZ	1	23:57:00																		
ZZZZZZ	1	23:58:00																		
ZZZZZZ	5	00:00:00																		
CCV15	1	00:02:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB15	1	00:04:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	00:07:00																		
ZZZZZZ	1	00:09:00																		
ZZZZZZ	1	00:11:00																		
ZZZZZZ	1	00:14:00																		
ZZZZZZ	1	00:16:00																		
CCV16	1	00:18:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB16	1	00:20:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	00:23:00																		
ZZZZZZ	1	00:25:00																		
ZZZZZZ	1	00:27:00																		
ZZZZZZ	1	00:29:00																		
ZZZZZZ	1	00:31:00																		
ZZZZZZ	1	00:32:00																		
ZZZZZZ	5	00:34:00																		
ZZZZZZ	1	00:36:00																		
ZZZZZZ	1	00:38:00																		
ZZZZZZ	1	00:40:00																		

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
CCV17	1	00:42:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB17	1	00:45:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	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	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB18	1	01:09:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	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																								
ZZZZZZ	1	01:24:00																								
ZZZZZZ	1	01:27:00																								
ZZZZZZ	1	01:29:00																								
CCV19	1	01:30:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB19	1	01:32:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	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	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB20	1	01:55:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	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																								

Samp No.	D/F	Run Time																				
ZZZZZZ	1	02:15:00																				
ZZZZZZ	1	02:17:00																				
CCV21	1	02:19:00	X	X		X					X	X	X	X	X	X	X	X			X	X
CCB21	1	02:21:00	X	X		X					X	X	X	X	X	X	X	X			X	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	X		X					X	X	X	X	X	X	X	X			X	X
CCB22	1	02:49:00	X	X		X					X	X	X	X	X	X	X	X			X	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	X		X					X	X	X	X	X	X	X	X			X	X
CCB23	1	03:15:00	X	X		X					X	X	X	X	X	X	X	X			X	X
CCV24	1	04:39:00	X	X		X					X	X	X	X	X	X	X	X			X	X
CCB24	1	04:41:00	X	X		X					X	X	X	X	X	X	X	X			X	X
ZZZZZZ	10	04:59:00																				
ZZZZZZ	10	05:01:00																				
CCV25	1	05:03:00	X	X		X					X	X	X	X	X	X	X	X			X	X
CCB25	1	05:05:00	X	X		X					X	X	X	X	X	X	X	X			X	X
1202056979	1	05:08:00	X	X		X					X	X	X	X	X	X	X	X			X	X
1202056984	1	05:10:00	X	X		X					X	X	X	X	X	X	X	X			X	X
248247001	1	05:12:00	X	X		X					X	X	X	X	X	X	X	X			X	X
1202056980	1	05:14:00	X	X		X					X	X	X	X	X	X	X	X			X	X
1202056982	1	05:16:00	X	X		X					X	X	X	X	X	X	X	X			X	X
1202056983	1	05:17:00	X	X		X					X	X	X	X	X	X	X	X			X	X
1202056981	5	05:18:00	X	X		X					X	X	X	X	X	X	X	X			X	X

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
248247002	1	05:21:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248247003	1	05:23:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV26	1	05:25:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB26	1	05:27:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248247004	1	05:30:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248247005	1	05:32:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248247006	1	05:34:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248247007	1	05:36:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248247008	1	05:38:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	05:40:00																								
ZZZZZZ	1	05:42:00																								
ZZZZZZ	1	05:44:00																								
ZZZZZZ	1	05:46:00																								
CCV27	1	05:48:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB27	1	05:51:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2138-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

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

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2138-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 15-JUN-09

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

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2138-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP	<u>Analyte</u>	<u>Wavelength</u> (nm)	<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: GEL

GEL Job No: 10-2138-1

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: **10-2138-1**Contract: LANL01004Instrument: OPTIMA4Effective 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: GEL

GEL Job No: 10-2138-1

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: GELGEL Job No: **10-2138-1**

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: 10-2138-1

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: GEL

GEL Job No: 10-2138-1

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. 10-2138-1

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS5

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
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
Iron	500	50000	ug/L	01-FEB-10
Copper	1000	1000	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. 10-2138-1

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>
Aluminum	20	500000	ug/L	01-FEB-10
Antimony	20	10000	ug/L	01-FEB-10
Arsenic	20	10000	ug/L	01-FEB-10
Barium	20	15000	ug/L	01-FEB-10
Beryllium	20	3000	ug/L	01-FEB-10
Cadmium	20	10000	ug/L	01-FEB-10
Calcium	20	500000	ug/L	01-FEB-10
Chromium	20	25000	ug/L	01-FEB-10
Cobalt	20	10000	ug/L	01-FEB-10
Copper	20	20000	ug/L	01-FEB-10
Iron	20	500000	ug/L	01-FEB-10
Lead	20	25000	ug/L	01-FEB-10
Magnesium	20	500000	ug/L	01-FEB-10
Manganese	20	10000	ug/L	01-FEB-10
Nickel	20	10000	ug/L	01-FEB-10
Potassium	20	300000	ug/L	01-FEB-10
Selenium	20	10000	ug/L	01-FEB-10
Silver	20	1000	ug/L	01-FEB-10
Sodium	20	500000	ug/L	01-FEB-10
Thallium	20	10000	ug/L	01-FEB-10
Uranium	20	15000	ug/L	01-FEB-10
Vanadium	20	10000	ug/L	01-FEB-10
Zinc	20	15000	ug/L	01-FEB-10

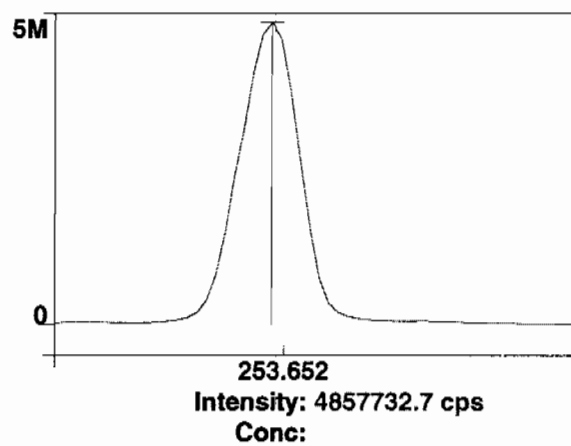
Raw Data

Method: Hg_ReAlign
Result: 041510

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



1

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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:

Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. 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	Calib Conc. 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	Conc.	Calib. 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

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	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

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

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%

Cr	267.716†	62360.3	488.28 µg/L	8.733	488.28 ppb	8.733	1.79%
Cu	324.752†	130652.0	509.29 µg/L	0.460	509.29 ppb	0.460	0.09%
Fe	238.204 Radial†	82123.9	5061.6 µg/L	13.19	5061.6 ppb	13.19	0.26%
K	766.490 Radial†	6885.8	2518.1 µg/L	34.72	2518.1 ppb	34.72	1.38%
Mg	279.077 IEC†	14285.8	5331.4 µg/L	26.95	5331.4 ppb	26.95	0.51%
Mn	257.610†	417618.5	516.49 µg/L	0.223	516.49 ppb	0.223	0.04%
Mo	202.031†	18174.5	534.59 µg/L	9.999	534.59 ppb	9.999	1.87%
Na	589.592 Radial†	18403.7	2511.9 µg/L	14.08	2511.9 ppb	14.08	0.56%
Ni	231.604†	43843.4	504.82 µg/L	10.036	504.82 ppb	10.036	1.99%
P	214.914†	11799.0	2514.8 µg/L	51.47	2514.8 ppb	51.47	2.05%
Pb	220.353†	9039.6	506.29 µg/L	9.140	506.29 ppb	9.140	1.81%
S	181.975 Axial†	3337.5	2482.9 µg/L	83.76	2482.9 ppb	83.76	3.37%
Sb	206.836†	4171.6	497.75 µg/L	11.489	497.75 ppb	11.489	2.31%
Se	196.026†	6896.1	2500 µg/L	50.9	2500 ppb	50.9	2.04%
SiO2†		107461.7	10481 µg/L	3.1	10481 ppb	3.1	0.03%
Si	251.611†	332736.6	4894.9 µg/L	5.44	4894.9 ppb	5.44	0.11%
Sn	189.927†	8490.8	530.98 µg/L	12.731	530.98 ppb	12.731	2.40%
Sr	421.552†	254812.7	529.70 µg/L	3.867	529.70 ppb	3.867	0.73%
Ti	334.940†	529112.2	493.68 µg/L	0.501	493.68 ppb	0.501	0.10%
Tl	190.801†	4295.9	535.33 µg/L	16.060	535.33 ppb	16.060	3.00%
U	409.014†	7709.0	481.62 µg/L	2.468	481.62 ppb	2.468	0.51%
V	292.402†	103333.7	511.03 µg/L	0.714	511.03 ppb	0.714	0.14%
Zn	213.857†	90746.7	505.79 µg/L	1.109	505.79 ppb	1.109	0.22%

QC value within limits for Co 228.616 Recovery = 101.94%
 QC value within limits for Cr 267.716 Recovery = 97.66%
 QC value within limits for Cu 324.752 Recovery = 101.86%
 QC value within limits for Fe 238.204 Radial Recovery = 101.23%
 QC value within limits for K 766.490 Radial Recovery = 100.72%
 QC value within limits for Mg 279.077 IEC Recovery = 106.63%
 QC value within limits for Mn 257.610 Recovery = 103.30%
 QC value within limits for Mo 202.031 Recovery = 106.92%
 QC value within limits for Na 589.592 Radial Recovery = 100.48%
 QC value within limits for Ni 231.604 Recovery = 100.96%
 QC value within limits for P 214.914 Recovery = 100.59%
 QC value within limits for Pb 220.353 Recovery = 101.26%
 QC value within limits for S 181.975 Axial Recovery = 99.32%
 QC value within limits for Sb 206.836 Recovery = 99.55%
 QC value within limits for Se 196.026 Recovery = 99.81%
 QC value within limits for SiO2 Recovery = 98.00%
 QC value within limits for Si 251.611 Recovery = 97.90%
 QC value within limits for Sn 189.927 Recovery = 106.20%
 QC value within limits for Sr 421.552 Recovery = 105.94%
 QC value within limits for Ti 334.940 Recovery = 98.74%
 QC value within limits for Tl 190.801 Recovery = 107.07%
 QC value within limits for U 409.014 Recovery = 96.32%
 QC value within limits for V 292.402 Recovery = 102.21%
 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	Conc. Units	Calib.	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	0.07718 46.67%
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	0.23936 75.77%
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	0.75637 48.82%
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	32.4227 73.64%
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	3.41013 365.09%
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	0.01944 582.64%
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	0.31176 699.61%
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	12.1345 115.35%
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	0.04849 73.31%
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	1.28372 122.48%
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	0.54252 110.12%
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	4.84991 201.36%
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	1.33468 677.58%
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	5.5558 920.66%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	13.8 1.3380 µg/L	0.38138 1.3380 ppb	0.38138 28.50%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	-89.0 -1.3160 µg/L	0.83316 -1.3160 ppb	0.83316 63.31%
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	0.46851 84.69%
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	0.21749 439.99%
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	0.05575 134.62%
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	0.50686 671.21%
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	2.98281 50.27%
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	0.29151 139.64%
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	0.06978 89.41%
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	Calib. Conc. Units	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: LR1

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%

QC value within limits for Co 228.616 Recovery = 98.98%					
Cr 267.716†	62898.2	492.49 µg/L	1.054	492.49 ppb	1.054 0.21%
QC value within limits for Cr 267.716 Recovery = 98.50%					
Cu 324.752†	126439.1	492.90 µg/L	0.756	492.90 ppb	0.756 0.15%
QC value within limits for Cu 324.752 Recovery = 98.58%					
Fe 238.204 Radial†	80934.2	4988.3 µg/L	18.22	4988.3 ppb	18.22 0.37%
QC value within limits for Fe 238.204 Radial Recovery = 99.77%					
K 766.490 Radial†	15568.7	5695.8 µg/L	37.52	5695.8 ppb	37.52 0.66%
QC value greater than the upper limit for K 766.490 Radial Recovery = 113.92%					
Mg 279.077 IEC†	13741.8	5127.8 µg/L	33.15	5127.8 ppb	33.15 0.65%
QC value within limits for Mg 279.077 IEC Recovery = 102.56%					
Mn 257.610†	400816.1	495.71 µg/L	0.532	495.71 ppb	0.532 0.11%
QC value within limits for Mn 257.610 Recovery = 99.14%					
Mo 202.031†	16841.2	495.39 µg/L	1.841	495.39 ppb	1.841 0.37%
QC value within limits for Mo 202.031 Recovery = 99.08%					
Na 589.592 Radial†	73778.4	10074 µg/L	23.6	10074 ppb	23.6 0.23%
QC value within limits for Na 589.592 Radial Recovery = 100.74%					
Ni 231.604†	42874.6	493.67 µg/L	0.898	493.67 ppb	0.898 0.18%
QC value within limits for Ni 231.604 Recovery = 98.73%					
P 214.914†	11557.8	2463.5 µg/L	7.33	2463.5 ppb	7.33 0.30%
QC value within limits for P 214.914 Recovery = 98.54%					
Pb 220.353†	9000.8	504.02 µg/L	3.083	504.02 ppb	3.083 0.61%
QC value within limits for Pb 220.353 Recovery = 100.80%					
S 181.975 Axial†	1360.5	1014.5 µg/L	2.43	1014.5 ppb	2.43 0.24%
QC value within limits for S 181.975 Axial Recovery = 101.45%					
Sb 206.836†	4145.4	493.94 µg/L	1.484	493.94 ppb	1.484 0.30%
QC value within limits for Sb 206.836 Recovery = 98.79%					
Se 196.026†	1370.0	497 µg/L	1.4	497 ppb	1.4 0.28%
QC value within limits for Se 196.026 Recovery = 99.49%					
SiO2†	54891.0	5343.9 µg/L	13.80	5343.9 ppb	13.80 0.26%
QC value within limits for SiO2 Recovery = 99.93%					
Si 251.611†	170263.1	2500.3 µg/L	1.90	2500.3 ppb	1.90 0.08%
QC value within limits for Si 251.611 Recovery = 100.01%					
Sn 189.927†	7955.8	497.63 µg/L	2.649	497.63 ppb	2.649 0.53%
QC value within limits for Sn 189.927 Recovery = 99.53%					
Sr 421.552†	237818.0	494.37 µg/L	2.072	494.37 ppb	2.072 0.42%
QC value within limits for Sr 421.552 Recovery = 98.87%					
Ti 334.940†	528859.3	493.46 µg/L	0.302	493.46 ppb	0.302 0.06%
QC value within limits for Ti 334.940 Recovery = 98.69%					
Tl 190.801†	4020.6	501.41 µg/L	3.629	501.41 ppb	3.629 0.72%
QC value within limits for Tl 190.801 Recovery = 100.28%					
U 409.014†	7772.9	484.36 µg/L	2.811	484.36 ppb	2.811 0.58%
QC value within limits for U 409.014 Recovery = 96.87%					
V 292.402†	100242.7	495.58 µg/L	0.417	495.58 ppb	0.417 0.08%
QC value within limits for V 292.402 Recovery = 99.12%					
Zn 213.857†	88637.8	494.04 µg/L	1.641	494.04 ppb	1.641 0.33%
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	Calib.	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	Calib. Conc. 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.

=====
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 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
=====

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

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:
=====

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

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	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%
Cu	324.752†	102.8	0.3974 µg/L	0.56376	0.3974 ppb	0.56376	141.85%
Fe	238.204 Radial†	45.3	2.7923 µg/L	0.49571	2.7923 ppb	0.49571	17.75%
K	766.490 Radial†	269.5	98.660 µg/L	17.7254	98.660 ppb	17.7254	17.97%
Mg	279.077 IEC†	-6.3	-2.3507 µg/L	5.46855	-2.3507 ppb	5.46855	232.63%
Mn	257.610†	54.6	0.0677 µg/L	0.00738	0.0677 ppb	0.00738	10.91%
Mo	202.031†	1.6	0.0473 µg/L	0.37526	0.0473 ppb	0.37526	793.90%
Na	589.592 Radial†	470.2	64.142 µg/L	11.7262	64.142 ppb	11.7262	18.28%
Ni	231.604†	-28.5	-0.3280 µg/L	0.16046	-0.3280 ppb	0.16046	48.93%
P	214.914†	-8.1	-1.7309 µg/L	2.19296	-1.7309 ppb	2.19296	126.69%
Pb	220.353†	13.0	0.7289 µg/L	0.80200	0.7289 ppb	0.80200	110.03%
S	181.975 Axial†	-2.6	-1.9046 µg/L	4.08395	-1.9046 ppb	4.08395	214.43%
Sb	206.836†	-1.4	-0.1667 µg/L	0.96394	-0.1667 ppb	0.96394	578.22%
Se	196.026†	0.7	0.238 µg/L	0.2782	0.238 ppb	0.2782	117.02%
SiO2†		1.5	0.1359 µg/L	2.75534	0.1359 ppb	2.75534	>999.9%
Si	251.611†	19.3	0.2794 µg/L	0.92845	0.2794 ppb	0.92845	332.33%
Sn	189.927†	9.4	0.5851 µg/L	0.58554	0.5851 ppb	0.58554	100.07%
Sr	421.552†	-14.1	-0.0294 µg/L	0.13885	-0.0294 ppb	0.13885	471.87%
Ti	334.940†	-65.8	-0.0601 µg/L	0.10414	-0.0601 ppb	0.10414	173.25%
Tl	190.801†	5.5	0.6721 µg/L	1.01847	0.6721 ppb	1.01847	151.53%
U	409.014†	-47.0	-2.7549 µg/L	3.68475	-2.7549 ppb	3.68475	133.75%
V	292.402†	-30.4	-0.1497 µg/L	0.26898	-0.1497 ppb	0.26898	179.67%
Zn	213.857†	87.0	0.4906 µg/L	0.11682	0.4906 ppb	0.11682	23.81%

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 within limits 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

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	489.65 ppb	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	489.91 ppb	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	4951.2 ppb	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	4968.6 ppb	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	5109.5 ppb	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	494.75 ppb	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	491.50 ppb	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	9808.4 ppb	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	492.90 ppb	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	2464.0 ppb	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	496.59 ppb	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	987.95 ppb	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	492.87 ppb	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	494 ppb	1.8	0.36%
QC value within limits for Se 196.026 Recovery = 98.85%						
SiO2†	54603.7	5315.9 µg/L	12.44	5315.9 ppb	12.44	0.23%
QC value within limits for SiO2 Recovery = 99.41%						
Si 251.611†	169447.7	2488.3 µg/L	5.61	2488.3 ppb	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	494.87 ppb	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	492.47 ppb	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	491.49 ppb	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	500.82 ppb	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	475.61 ppb	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	493.54 ppb	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	489.47 ppb	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	Calib. Conc. Units	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%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	8.6 0.0669 µg/L	0.07889	0.0669 ppb 0.07889 117.87%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-120.3 -0.4664 µg/L	0.53553	-0.4664 ppb 0.53553 114.82%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	21.8 1.3449 µg/L	0.25554	1.3449 ppb 0.25554 19.00%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	72.5 26.559 µg/L	10.2293	26.559 ppb 10.2293 38.52%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-9.1 -3.3867 µg/L	2.60377	-3.3867 ppb 2.60377 76.88%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	23.4 0.0291 µg/L	0.03107	0.0291 ppb 0.03107 106.92%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-3.3 -0.0962 µg/L	0.50606	-0.0962 ppb 0.50606 525.95%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	118.4 16.147 µg/L	11.4636	16.147 ppb 11.4636 70.99%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-5.7 -0.0651 µg/L	0.15260	-0.0651 ppb 0.15260 234.56%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	-0.3 -0.0611 µg/L	2.02349	-0.0611 ppb 2.02349 >999.9%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	15.4 0.8575 µg/L	0.35710	0.8575 ppb 0.35710 41.64%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	0.7 0.5509 µg/L	3.07426	0.5509 ppb 3.07426 558.02%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	1.4 0.1627 µg/L	0.24819	0.1627 ppb 0.24819 152.55%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	0.3 0.122 µg/L	1.5761	0.122 ppb 1.5761 >999.9%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	6.5 0.6315 µg/L	2.47323	0.6315 ppb 2.47323 391.67%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	45.1 0.6638 µg/L	1.24006	0.6638 ppb 1.24006 186.82%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	6.8 0.4214 µg/L	0.24200	0.4214 ppb 0.24200 57.43%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-121.6 -0.2528 µg/L	0.09445	-0.2528 ppb 0.09445 37.35%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	59.0 0.0550 µg/L	0.06076	0.0550 ppb 0.06076 110.38%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	3.1 0.3781 µg/L	0.73174	0.3781 ppb 0.73174 193.54%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	16.2 0.9557 µg/L	4.35630	0.9557 ppb 4.35630 455.82%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	38.8 0.1892 µg/L	0.38415	0.1892 ppb 0.38415 203.07%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	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	Calib. Conc. Units	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†	QC value within limits for Co 228.616	Recovery = Not calculated			
	14.5	0.1111 µg/L	0.18892	0.1111 ppb	0.18892 170.01%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	-67.1	-0.2583 µg/L	0.09167	-0.2583 ppb	0.09167 35.50%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	7.3	0.4508 µg/L	0.49733	0.4508 ppb	0.49733 110.33%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	69.4	25.411 µg/L	36.2364	25.411 ppb	36.2364 142.60%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	-2.3	-0.8557 µg/L	9.06232	-0.8557 ppb	9.06232 >999.9%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	28.3	0.0350 µg/L	0.01036	0.0350 ppb	0.01036 29.56%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	-8.6	-0.2533 µg/L	0.16143	-0.2533 ppb	0.16143 63.73%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	105.0	14.318 µg/L	17.6253	14.318 ppb	17.6253 123.10%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	0.2	0.0020 µg/L	0.19262	0.0020 ppb	0.19262 >999.9%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	11.9	2.5516 µg/L	2.42435	2.5516 ppb	2.42435 95.01%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	3.2	0.1772 µg/L	0.18975	0.1772 ppb	0.18975 107.07%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	-8.7	-6.4924 µg/L	5.36374	-6.4924 ppb	5.36374 82.62%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	-1.2	-0.1454 µg/L	1.27176	-0.1454 ppb	1.27176 874.71%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	11.2	4.05 µg/L	1.843	4.05 ppb	1.843 45.47%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	-37.2	-3.6436 µg/L	3.05138	-3.6436 ppb	3.05138 83.75%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	16.9	0.2481 µg/L	1.16372	0.2481 ppb	1.16372 469.00%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	11.6	0.7204 µg/L	0.59961	0.7204 ppb	0.59961 83.23%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	-128.3	-0.2667 µg/L	0.08309	-0.2667 ppb	0.08309 31.15%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	-10.9	-0.0113 µg/L	0.10776	-0.0113 ppb	0.10776 953.77%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	5.6	0.6826 µg/L	0.80682	0.6826 ppb	0.80682 118.21%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	51.9	3.0406 µg/L	5.72342	3.0406 ppb	5.72342 188.23%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	12.0	0.0584 µg/L	0.17533	0.0584 ppb	0.17533 300.44%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	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	Conc. Units	Calib. Units	Conc. Units	Sample 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	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	Calib. Conc. 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	Conc. Units	Calib. 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	Calib. Conc. Units	Sample Conc. 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
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
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
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
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
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
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
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
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
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
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
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
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
QC value within limits for Sb 206.836	Recovery = 97.41%			
Se 196.026†	1344.1	488 µg/L	1.8	488 ppb
QC value within limits for Se 196.026	Recovery = 97.61%			
SiO2†	53913.1	5248.7 µg/L	28.09	5248.7 ppb
QC value within limits for SiO2	Recovery = 98.15%			
Si 251.611†	167178.3	2455.0 µg/L	6.34	2455.0 ppb
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
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
QC value within limits for Sr 421.552	Recovery = 97.05%			
Ti 334.940†	519992.9	485.19 µg/L	0.943	485.19 ppb
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
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
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
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
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. 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	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	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	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	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	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	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	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	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	0.20954	0.1927 ppb	0.20954	108.73%

QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	13.5	0.1076 µg/L	0.13596	0.1076 ppb	0.13596	126.39%
QC value within limits for Cr 267.716 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 Cu 324.752 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 Fe 238.204 Radial 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 K 766.490 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 Mg 279.077 IEC 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 Mn 257.610 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 Mo 202.031 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 Na 589.592 Radial 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 Ni 231.604 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 P 214.914 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 Pb 220.353 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 S 181.975 Axial 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 Sb 206.836 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 Se 196.026 Recovery = Not calculated						
SiO2†	-0.4	-0.0380 µg/L	5.37088	-0.0380 ppb	5.37088	>999.9%
QC value within limits for SiO2 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 Si 251.611 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 Sn 189.927 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 Sr 421.552 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 Ti 334.940 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 Tl 190.801 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 U 409.014 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 V 292.402 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 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	13348.0	4883.1 µg/L	4883.1 ppb	21:40:35
2	Mg 279.077 IEC†	13510.7	13364.6	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

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	Conc. Units	Calib. 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	S 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	Calib. Conc. 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	Calib. Conc. Units	Sample Conc. 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	S 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	Calib. Conc. 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%

QC value within limits for Co 228.616 Recovery = 95.36%							
Cr 267.716†	60486.8	473.60 µg/L	1.293	473.60 ppb	1.293	0.27%	
QC value within limits for Cr 267.716 Recovery = 94.72%							
Cu 324.752†	122456.7	477.37 µg/L	0.545	477.37 ppb	0.545	0.11%	
QC value within limits for Cu 324.752 Recovery = 95.47%							
Fe 238.204 Radial†	77933.5	4803.3 µg/L	10.80	4803.3 ppb	10.80	0.22%	
QC value within limits for Fe 238.204 Radial Recovery = 96.07%							
K 766.490 Radial†	13109.8	4795.8 µg/L	48.06	4795.8 ppb	48.06	1.00%	
QC value within limits for K 766.490 Radial Recovery = 95.92%							
Mg 279.077 IEC†	13117.5	4894.9 µg/L	20.99	4894.9 ppb	20.99	0.43%	
QC value within limits for Mg 279.077 IEC Recovery = 97.90%							
Mn 257.610†	387703.5	479.50 µg/L	1.185	479.50 ppb	1.185	0.25%	
QC value within limits for Mn 257.610 Recovery = 95.90%							
Mo 202.031†	16173.9	475.77 µg/L	5.865	475.77 ppb	5.865	1.23%	
QC value within limits for Mo 202.031 Recovery = 95.15%							
Na 589.592 Radial†	70008.7	9559.8 µg/L	9.43	9559.8 ppb	9.43	0.10%	
QC value within limits for Na 589.592 Radial Recovery = 95.60%							
Ni 231.604†	41301.6	475.56 µg/L	1.231	475.56 ppb	1.231	0.26%	
QC value within limits for Ni 231.604 Recovery = 95.11%							
P 214.914†	11071.9	2359.9 µg/L	28.31	2359.9 ppb	28.31	1.20%	
QC value within limits for P 214.914 Recovery = 94.39%							
Pb 220.353†	8542.8	478.39 µg/L	5.044	478.39 ppb	5.044	1.05%	
QC value within limits for Pb 220.353 Recovery = 95.68%							
S 181.975 Axial†	1257.9	938.13 µg/L	6.311	938.13 ppb	6.311	0.67%	
QC value within limits for S 181.975 Axial Recovery = 93.81%							
Sb 206.836†	3994.0	475.89 µg/L	4.631	475.89 ppb	4.631	0.97%	
QC value within limits for Sb 206.836 Recovery = 95.18%							
Se 196.026†	1308.1	475 µg/L	5.3	475 ppb	5.3	1.11%	
QC value within limits for Se 196.026 Recovery = 95.00%							
SiO2†	52959.7	5156.0 µg/L	11.56	5156.0 ppb	11.56	0.22%	
QC value within limits for SiO2 Recovery = 96.42%							
Si 251.611†	164388.3	2414.1 µg/L	6.40	2414.1 ppb	6.40	0.27%	
QC value within limits for Si 251.611 Recovery = 96.56%							
Sn 189.927†	7603.3	475.60 µg/L	6.099	475.60 ppb	6.099	1.28%	
QC value within limits for Sn 189.927 Recovery = 95.12%							
Sr 421.552†	232067.2	482.42 µg/L	3.615	482.42 ppb	3.615	0.75%	
QC value within limits for Sr 421.552 Recovery = 96.48%							
Ti 334.940†	512159.0	477.88 µg/L	0.166	477.88 ppb	0.166	0.03%	
QC value within limits for Ti 334.940 Recovery = 95.58%							
Tl 190.801†	3887.9	484.88 µg/L	5.710	484.88 ppb	5.710	1.18%	
QC value within limits for Tl 190.801 Recovery = 96.98%							
U 409.014†	7572.3	471.66 µg/L	7.041	471.66 ppb	7.041	1.49%	
QC value within limits for U 409.014 Recovery = 94.33%							
V 292.402†	96943.8	479.22 µg/L	0.996	479.22 ppb	0.996	0.21%	
QC value within limits for V 292.402 Recovery = 95.84%							
Zn 213.857†	84759.1	472.39 µg/L	2.045	472.39 ppb	2.045	0.43%	
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

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†	11.9	0.0905 µg/L	0.13175	0.0905 ppb	0.13175	145.64%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-74.4	-0.2849 µg/L	0.31418	-0.2849 ppb	0.31418	110.27%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	63.6	3.9170 µg/L	0.72840	3.9170 ppb	0.72840	18.60%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	101.6	37.194 µg/L	29.8738	37.194 ppb	29.8738	80.32%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	1.8	0.6757 µg/L	2.35038	0.6757 ppb	2.35038	347.86%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	74.7	0.0923 µg/L	0.01373	0.0923 ppb	0.01373	14.87%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-1.2	-0.0353 µg/L	0.28757	-0.0353 ppb	0.28757	814.16%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	0.2	-0.0004 µg/L	6.91054	-0.0004 ppb	6.91054	>999.9%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	6.0	0.0687 µg/L	0.10050	0.0687 ppb	0.10050	146.19%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-8.3	-1.7634 µg/L	0.70616	-1.7634 ppb	0.70616	40.05%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-1.2	-0.0719 µg/L	0.77383	-0.0719 ppb	0.77383	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-2.8	-2.0942 µg/L	7.41644	-2.0942 ppb	7.41644	354.14%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-3.0	-0.3632 µg/L	1.89399	-0.3632 ppb	1.89399	521.51%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-2.9	-1.05 µg/L	2.877	-1.05 ppb	2.877	275.00%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	-18.2	-1.7828 µg/L	0.56893	-1.7828 ppb	0.56893	31.91%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	161.9	2.3852 µg/L	0.18594	2.3852 ppb	0.18594	7.80%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	4.3	0.2656 µg/L	0.50378	0.2656 ppb	0.50378	189.70%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-119.7	-0.2488 µg/L	0.31901	-0.2488 ppb	0.31901	128.20%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-66.2	-0.0636 µg/L	0.11461	-0.0636 ppb	0.11461	180.26%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	3.4	0.4177 µg/L	1.67214	0.4177 ppb	1.67214	400.28%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	68.3	3.9854 µg/L	1.51076	3.9854 ppb	1.51076	37.91%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-38.2	-0.1839 µg/L	0.10096	-0.1839 ppb	0.10096	54.91%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	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%

QC value within limits for Co 228.616 Recovery = 96.14%							
Cr 267.716†	60991.5	477.56 µg/L	0.432	477.56 ppb	0.432	0.09%	
QC value within limits for Cr 267.716 Recovery = 95.51%							
Cu 324.752†	122740.2	478.47 µg/L	0.832	478.47 ppb	0.832	0.17%	
QC value within limits for Cu 324.752 Recovery = 95.69%							
Fe 238.204 Radial†	78215.5	4820.7 µg/L	10.03	4820.7 ppb	10.03	0.21%	
QC value within limits for Fe 238.204 Radial Recovery = 96.41%							
K 766.490 Radial†	13172.2	4818.6 µg/L	12.58	4818.6 ppb	12.58	0.26%	
QC value within limits for K 766.490 Radial Recovery = 96.37%							
Mg 279.077 IEC†	13137.7	4902.4 µg/L	16.98	4902.4 ppb	16.98	0.35%	
QC value within limits for Mg 279.077 IEC Recovery = 98.05%							
Mn 257.610†	390759.0	483.28 µg/L	0.994	483.28 ppb	0.994	0.21%	
QC value within limits for Mn 257.610 Recovery = 96.66%							
Mo 202.031†	16221.2	477.16 µg/L	1.856	477.16 ppb	1.856	0.39%	
QC value within limits for Mo 202.031 Recovery = 95.43%							
Na 589.592 Radial†	70214.0	9587.8 µg/L	22.57	9587.8 ppb	22.57	0.24%	
QC value within limits for Na 589.592 Radial Recovery = 95.88%							
Ni 231.604†	41740.1	480.61 µg/L	1.369	480.61 ppb	1.369	0.28%	
QC value within limits for Ni 231.604 Recovery = 96.12%							
P 214.914†	11167.5	2380.3 µg/L	9.50	2380.3 ppb	9.50	0.40%	
QC value within limits for P 214.914 Recovery = 95.21%							
Pb 220.353†	8601.7	481.69 µg/L	2.292	481.69 ppb	2.292	0.48%	
QC value within limits for Pb 220.353 Recovery = 96.34%							
S 181.975 Axial†	1258.6	938.65 µg/L	12.730	938.65 ppb	12.730	1.36%	
QC value within limits for S 181.975 Axial Recovery = 93.87%							
Sb 206.836†	4005.1	477.19 µg/L	1.420	477.19 ppb	1.420	0.30%	
QC value within limits for Sb 206.836 Recovery = 95.44%							
Se 196.026†	1319.8	479 µg/L	5.3	479 ppb	5.3	1.10%	
QC value within limits for Se 196.026 Recovery = 95.85%							
SiO2†	53748.6	5233.0 µg/L	8.10	5233.0 ppb	8.10	0.15%	
QC value within limits for SiO2 Recovery = 97.86%							
Si 251.611†	167232.0	2456.0 µg/L	6.34	2456.0 ppb	6.34	0.26%	
QC value within limits for Si 251.611 Recovery = 98.24%							
Sn 189.927†	7658.4	479.04 µg/L	1.940	479.04 ppb	1.940	0.41%	
QC value within limits for Sn 189.927 Recovery = 95.81%							
Sr 421.552†	234440.5	487.35 µg/L	3.562	487.35 ppb	3.562	0.73%	
QC value within limits for Sr 421.552 Recovery = 97.47%							
Ti 334.940†	514124.0	479.72 µg/L	0.631	479.72 ppb	0.631	0.13%	
QC value within limits for Ti 334.940 Recovery = 95.94%							
Tl 190.801†	3903.4	486.82 µg/L	4.666	486.82 ppb	4.666	0.96%	
QC value within limits for Tl 190.801 Recovery = 97.36%							
U 409.014†	7503.6	467.83 µg/L	4.493	467.83 ppb	4.493	0.96%	
QC value within limits for U 409.014 Recovery = 93.57%							
V 292.402†	97574.3	482.33 µg/L	0.781	482.33 ppb	0.781	0.16%	
QC value within limits for V 292.402 Recovery = 96.47%							
Zn 213.857†	85569.2	476.91 µg/L	1.152	476.91 ppb	1.152	0.24%	
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	S 181.975 Axial†	106.4	-0.2	-0.1288 µg/L	-0.1288 ppb	23:00:25
1	Sb 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	0.12227	95.18%	
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	0.09911	20.31%	
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	0.54779	12.75%	
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	55.1735	131.95%	
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	2.07835	244.70%	
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	0.05404	47.47%	
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	0.27547	142.26%	
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	8.91683	239.92%	
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	0.06752	39.87%	
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	0.85955	223.42%	
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	0.16715	22.72%	
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	4.76418	84.67%	
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	0.86705	69.77%	
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	1.6662	528.34%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	86.8	8.4797 µg/L	2.67504	8.4797 ppb	2.67504	31.55%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	448.6	6.6103 µg/L	1.43246	6.6103 ppb	1.43246	21.67%	
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	0.56292	331.12%	
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	0.07220	34.57%	
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	0.15668	370.64%	
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	0.71841	>999.9%	
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	2.24566	226.16%	
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	0.51982	246.42%	
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	0.04274	55.43%	
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%

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	Calib. Conc. Units	Std.Dev.	Sample 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
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
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
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
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
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
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
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
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
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
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
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
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
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
QC value within limits for Se 196.026	Recovery = Not calculated			
SiO2†	44.6	4.3586 µg/L	2.85844	4.3586 ppb
QC value within limits for SiO2	Recovery = Not calculated			
Si 251.611†	289.7	4.2683 µg/L	1.10310	4.2683 ppb
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
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
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
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
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
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
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
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	1.244	0.26%	
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	0.509	0.11%	
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	18.23	0.38%	
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	25.92	0.54%	
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	40.70	0.82%	
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	0.335	0.07%	
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	2.318	0.48%	
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	31.25	0.33%	
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	1.093	0.23%	
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	12.46	0.52%	
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	4.812	0.99%	
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	8.319	0.88%	
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	3.045	0.64%	
QC value within limits for Sb 206.836 Recovery = 95.84%							
Se 196.026†	1325.1	481 µg/L	2.0	481 ppb	2.0	0.42%	
QC value within limits for Se 196.026 Recovery = 96.23%							
SiO2†	52845.6	5144.6 µg/L	9.64	5144.6 ppb	9.64	0.19%	
QC value within limits for SiO2 Recovery = 96.21%							
Si 251.611†	164353.8	2413.5 µg/L	2.15	2413.5 ppb	2.15	0.09%	
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	2.875	0.60%	
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	1.209	0.25%	
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	0.363	0.08%	
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	2.267	0.46%	
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	3.394	0.73%	
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	0.482	0.10%	
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	0.445	0.09%	
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	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%

QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	3.9	0.0306 µg/L	0.05579	0.0306 ppb	0.05579	182.28%
QC value within limits for Cr 267.716 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	Conc. Units	Calib. 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†	8.8	0.0763 µg/L	0.05570	0.0763 ppb	0.05570	73.02%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-26.9	-0.1114 µg/L	0.18174	-0.1114 ppb	0.18174	163.21%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	86.8	5.3509 µg/L	0.80679	5.3509 ppb	0.80679	15.08%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	140.9	51.578 µg/L	29.7235	51.578 ppb	29.7235	57.63%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-2.3	-0.8527 µg/L	4.56498	-0.8527 ppb	4.56498	535.33%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	96.9	0.1200 µg/L	0.02117	0.1200 ppb	0.02117	17.65%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	13.1	0.3848 µg/L	0.20656	0.3848 ppb	0.20656	53.68%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	33.4	4.5235 µg/L	7.61088	4.5235 ppb	7.61088	168.25%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-18.7	-0.2157 µg/L	0.29398	-0.2157 ppb	0.29398	136.32%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-0.1	-0.0241 µg/L	0.70567	-0.0241 ppb	0.70567	>999.9%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-19.0	-1.0513 µg/L	0.58190	-1.0513 ppb	0.58190	55.35%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-11.2	-8.2812 µg/L	1.93130	-8.2812 ppb	1.93130	23.32%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	5.8	0.6943 µg/L	1.37431	0.6943 ppb	1.37431	197.94%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	6.5	2.36 µg/L	4.154	2.36 ppb	4.154	176.05%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	-17.2	-1.6992 µg/L	3.20748	-1.6992 ppb	3.20748	188.77%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	101.9	1.4948 µg/L	0.94203	1.4948 ppb	0.94203	63.02%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	6.1	0.3788 µg/L	0.27765	0.3788 ppb	0.27765	73.30%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-26.9	-0.0560 µg/L	0.15260	-0.0560 ppb	0.15260	272.31%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	32.9	0.0348 µg/L	0.27113	0.0348 ppb	0.27113	779.57%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	3.1	0.3767 µg/L	0.97795	0.3767 ppb	0.97795	259.64%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-162.8	-9.5509 µg/L	3.86489	-9.5509 ppb	3.86489	40.47%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-105.0	-0.5150 µg/L	0.18000	-0.5150 ppb	0.18000	34.95%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	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

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%

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

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. 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.: 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	Conc. Units	Calib. Units	Sample Conc.	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 231.604†	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†	QC value within limits for Co 228.616	Recovery = Not calculated			
	22.4	0.1708 µg/L	0.06537	0.1708 ppb	0.06537 38.28%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	-91.2	-0.3477 µg/L	0.34907	-0.3477 ppb	0.34907 100.39%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	134.5	8.2867 µg/L	1.69027	8.2867 ppb	1.69027 20.40%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	459.7	168.28 µg/L	22.848	168.28 ppb	22.848 13.58%
Mg 279.077 IEC†	QC value greater than the upper limit for K 766.490 Radial	Recovery = Not calculated			
	46.1	17.159 µg/L	7.0777	17.159 ppb	7.0777 41.25%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	52.8	0.0647 µg/L	0.02293	0.0647 ppb	0.02293 35.46%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	-3.9	-0.1145 µg/L	0.14420	-0.1145 ppb	0.14420 125.93%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	80.4	10.833 µg/L	8.3397	10.833 ppb	8.3397 76.99%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	0.8	0.0091 µg/L	0.38069	0.0091 ppb	0.38069 >999.9%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	-4.3	-0.9020 µg/L	1.62822	-0.9020 ppb	1.62822 180.50%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	-18.6	-1.0406 µg/L	0.16556	-1.0406 ppb	0.16556 15.91%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	-9.1	-6.7567 µg/L	6.24300	-6.7567 ppb	6.24300 92.40%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	-5.4	-0.6447 µg/L	0.67274	-0.6447 ppb	0.67274 104.35%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	3.3	1.22 µg/L	2.190	1.22 ppb	2.190 179.88%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	-44.9	-4.3935 µg/L	6.15338	-4.3935 ppb	6.15338 140.06%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	34.1	0.5020 µg/L	1.04746	0.5020 ppb	1.04746 208.67%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	7.2	0.4493 µg/L	0.09239	0.4493 ppb	0.09239 20.57%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	-14.8	-0.0310 µg/L	0.10839	-0.0310 ppb	0.10839 350.04%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	3.9	0.0003 µg/L	0.05203	0.0003 ppb	0.05203 >999.9%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	4.7	0.5788 µg/L	0.55162	0.5788 ppb	0.55162 95.31%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	99.8	5.8153 µg/L	4.25029	5.8153 ppb	4.25029 73.09%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	-73.3	-0.3549 µg/L	0.17756	-0.3549 ppb	0.17756 50.04%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	38.8	0.2171 µg/L	0.02218	0.2171 ppb	0.02218 10.22%
	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	Calib. Conc. Units	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%

QC value within limits for Co 228.616 Recovery = Not calculated						
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%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-6.6 -0.0540 µg/L	0.08710 -0.0540 ppb	0.08710 161.40%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-86.5 -0.3335 µg/L	0.69273 -0.3335 ppb	0.69273 207.71%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	1.8 0.1130 µg/L	0.47541 0.1130 ppb	0.47541 420.63%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	369.6 135.28 µg/L	8.974 135.28 ppb	8.974 6.63%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	0.8 0.2866 µg/L	1.48517 0.2866 ppb	1.48517 518.27%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	37.8 0.0467 µg/L	0.00782 0.0467 ppb	0.00782 16.75%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-6.7 -0.1959 µg/L	0.08513 -0.1959 ppb	0.08513 43.45%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	746.2 101.82 µg/L	9.907 101.82 ppb	9.907 9.73%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-12.0 -0.1383 µg/L	0.25912 -0.1383 ppb	0.25912 187.35%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	8.1 1.7456 µg/L	2.62689 1.7456 ppb	2.62689 150.49%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-5.7 -0.3232 µg/L	0.23141 -0.3232 ppb	0.23141 71.60%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	300.7 223.31 µg/L	4.649 223.31 ppb	4.649 2.08%
QC value greater than the upper limit for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	-2.8 -0.3323 µg/L	0.72115 -0.3323 ppb	0.72115 217.00%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	3.7 1.34 µg/L	1.882 1.34 ppb	1.882 140.61%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	4.7 0.4577 µg/L	1.22296 0.4577 ppb	1.22296 267.19%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	173.9 2.5649 µg/L	0.45818 2.5649 ppb	0.45818 17.86%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	4.9 0.3047 µg/L	0.46487 0.3047 ppb	0.46487 152.55%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	49.2 0.1022 µg/L	0.24199 0.1022 ppb	0.24199 236.77%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	-1.3 -0.0021 µg/L	0.04720 -0.0021 ppb	0.04720 >999.9%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	55.1 6.7660 µg/L	1.88839 6.7660 ppb	1.88839 27.91%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	50.3 2.9167 µg/L	6.30153 2.9167 ppb	6.30153 216.05%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-98.0 -0.4782 µg/L	0.50087 -0.4782 ppb	0.50087 104.74%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	29.9 0.1689 µg/L	0.10651 0.1689 ppb	0.10651 63.06%
QC value within limits for Zn 213.857	Recovery = Not calculated		
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%

QC value within limits for Co 228.616 Recovery = 95.33%						
Cr 267.716†	60261.6	471.83 µg/L	1.086	471.83 ppb	1.086	0.23%
QC value within limits for Cr 267.716 Recovery = 94.37%						
Cu 324.752†	122069.2	475.86 µg/L	0.918	475.86 ppb	0.918	0.19%
QC value within limits for Cu 324.752 Recovery = 95.17%						
Fe 238.204 Radial†	77483.3	4775.6 µg/L	4.35	4775.6 ppb	4.35	0.09%
QC value within limits for Fe 238.204 Radial Recovery = 95.51%						
K 766.490 Radial†	13952.3	5103.9 µg/L	14.77	5103.9 ppb	14.77	0.29%
QC value within limits for K 766.490 Radial Recovery = 102.08%						
Mg 279.077 IEC†	13059.9	4873.4 µg/L	20.02	4873.4 ppb	20.02	0.41%
QC value within limits for Mg 279.077 IEC Recovery = 97.47%						
Mn 257.610†	386760.2	478.33 µg/L	0.301	478.33 ppb	0.301	0.06%
QC value within limits for Mn 257.610 Recovery = 95.67%						
Mo 202.031†	16097.6	473.52 µg/L	1.551	473.52 ppb	1.551	0.33%
QC value within limits for Mo 202.031 Recovery = 94.70%						
Na 589.592 Radial†	84726.6	11570 µg/L	57.0	11570 ppb	57.0	0.49%
QC value greater than the upper limit for Na 589.592 Radial Recovery = 115.70%						
Ni 231.604†	41087.6	473.09 µg/L	1.345	473.09 ppb	1.345	0.28%
QC value within limits for Ni 231.604 Recovery = 94.62%						
P 214.914†	11045.1	2354.2 µg/L	6.76	2354.2 ppb	6.76	0.29%
QC value within limits for P 214.914 Recovery = 94.17%						
Pb 220.353†	8468.1	474.22 µg/L	0.911	474.22 ppb	0.911	0.19%
QC value within limits for Pb 220.353 Recovery = 94.84%						
S 181.975 Axial†	1733.4	1291.2 µg/L	28.53	1291.2 ppb	28.53	2.21%
QC value greater than the upper limit for S 181.975 Axial Recovery = 129.12%						
Sb 206.836†	3985.4	474.86 µg/L	1.568	474.86 ppb	1.568	0.33%
QC value within limits for Sb 206.836 Recovery = 94.97%						
Se 196.026†	1307.1	475 µg/L	1.4	475 ppb	1.4	0.29%
QC value within limits for Se 196.026 Recovery = 94.93%						
SiO2†	52247.0	5086.4 µg/L	12.02	5086.4 ppb	12.02	0.24%
QC value within limits for SiO2 Recovery = 95.12%						
Si 251.611†	162722.5	2389.6 µg/L	2.95	2389.6 ppb	2.95	0.12%
QC value within limits for Si 251.611 Recovery = 95.58%						
Sn 189.927†	7603.1	475.58 µg/L	1.408	475.58 ppb	1.408	0.30%
QC value within limits for Sn 189.927 Recovery = 95.12%						
Sr 421.552†	231538.0	481.32 µg/L	3.696	481.32 ppb	3.696	0.77%
QC value within limits for Sr 421.552 Recovery = 96.26%						
Ti 334.940†	511559.8	477.32 µg/L	0.278	477.32 ppb	0.278	0.06%
QC value within limits for Ti 334.940 Recovery = 95.46%						
Tl 190.801†	3774.1	470.88 µg/L	4.075	470.88 ppb	4.075	0.87%
QC value within limits for Tl 190.801 Recovery = 94.18%						
U 409.014†	7619.6	474.39 µg/L	1.174	474.39 ppb	1.174	0.25%
QC value within limits for U 409.014 Recovery = 94.88%						
V 292.402†	96809.0	478.54 µg/L	0.232	478.54 ppb	0.232	0.05%
QC value within limits for V 292.402 Recovery = 95.71%						
Zn 213.857†	84412.8	470.47 µg/L	0.867	470.47 ppb	0.867	0.18%
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	Calib. Conc. 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	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%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716†	3.4	0.0219 µg/L	0.08351	0.0219 ppb	0.08351	380.68%
QC value within limits for Cr 267.716 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.

=====
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 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: 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:
=====

Replicate Data: CCV

Repl#	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	Conc. Units	Calib. 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	Calib. Conc. 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%

QC value within limits for Co 228.616 Recovery = Not calculated									
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.									

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	7686.0	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	0.173 0.04%
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	0.427 0.09%
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	11.92 0.25%
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	40.76 0.83%
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	18.24 0.37%
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	0.362 0.08%
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	1.275 0.27%
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	19.47 0.20%
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	0.840 0.18%
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	9.72 0.41%
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	0.522 0.11%
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	7.208 0.74%
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	0.861 0.18%
QC value within limits for Sb 206.836 Recovery = 95.26%					
Se 196.026†	1325.0	481 µg/L	3.4	481 ppb	3.4 0.71%
QC value within limits for Se 196.026 Recovery = 96.22%					
SiO2†	52482.0	5109.3 µg/L	2.96	5109.3 ppb	2.96 0.06%
QC value within limits for SiO2 Recovery = 95.54%					
Si 251.611†	163471.4	2400.6 µg/L	2.08	2400.6 ppb	2.08 0.09%
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	1.501 0.31%
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	0.124 0.03%
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	0.458 0.10%
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	1.405 0.29%
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	6.373 1.37%
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	0.345 0.07%
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	0.754 0.16%
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%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	2.0 0.0236 µg/L	0.17422 0.0236 ppb	0.17422 737.23%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-49.9 -0.2022 µg/L	0.27414 -0.2022 ppb	0.27414 135.56%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	4.4 0.2695 µg/L	0.88639 0.2695 ppb	0.88639 328.85%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	24.9 9.0894 µg/L	42.42237 9.0894 ppb	42.42237 466.72%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-9.8 -3.6597 µg/L	1.67122 -3.6597 ppb	1.67122 45.67%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	30.1 0.0374 µg/L	0.02669 0.0374 ppb	0.02669 71.39%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-6.4 -0.1898 µg/L	0.21627 -0.1898 ppb	0.21627 113.95%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	1208.9 165.15 µg/L	14.597 165.15 ppb	14.597 8.84%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-24.5 -0.2827 µg/L	0.16642 -0.2827 ppb	0.16642 58.87%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	-5.5 -1.1605 µg/L	2.72331 -1.1605 ppb	2.72331 234.67%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-6.8 -0.3732 µg/L	1.36106 -0.3732 ppb	1.36106 364.65%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	27.4 20.340 µg/L	7.7851 20.340 ppb	7.7851 38.27%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	-10.7 -1.2715 µg/L	1.35806 -1.2715 ppb	1.35806 106.81%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	-2.1 -0.764 µg/L	3.1328 -0.764 ppb	3.1328 410.20%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	-32.7 -3.1949 µg/L	1.02864 -3.1949 ppb	1.02864 32.20%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	-0.9 -0.0129 µg/L	0.71695 -0.0129 ppb	0.71695 >999.9%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	5.4 0.3386 µg/L	0.66691 0.3386 ppb	0.66691 196.97%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-65.1 -0.1354 µg/L	0.03536 -0.1354 ppb	0.03536 26.10%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	1.4 0.0059 µg/L	0.09568 0.0059 ppb	0.09568 >999.9%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	3.3 0.4047 µg/L	0.89852 0.4047 ppb	0.89852 222.02%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-175.0 -10.268 µg/L	14.4354 -10.268 ppb	14.4354 140.59%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-130.5 -0.6455 µg/L	0.37319 -0.6455 ppb	0.37319 57.82%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	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.

Sequence No.: 5

Sample ID: 1202056979|959150|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 303

Date Collected: 4/1/2010 5:08:37

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056979|959150|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	141645.1	141645.1	97.1 %			05:09:09
1	Al 396.153Radial†	-36.5	25.6	4.7564 µg/L		4.7564 ppb	05:09:11
1	Ca 317.933Radial†	1029.1	499.7	27.835 µg/L		27.835 ppb	05:09:11
1	Fe 238.204 Radial†	1869.1	1777.5	109.56 µg/L		109.56 ppb	05:09:11
1	K 766.490 Radial†	1533.8	35.4	12.944 µg/L		12.944 ppb	05:09:09
1	Mg 279.077 IEC†	165.9	-19.8	-7.4852 µg/L		-7.4852 ppb	05:09:11
1	Na 589.592 Radial†	2268.9	1046.8	142.99 µg/L		142.99 ppb	05:09:11
1	Sr 421.552†	47.2	184.0	0.3822 µg/L		0.3822 ppb	05:09:11
1	Sc 361.383	1716682.4	1716682.4	99.911 %			05:09:22
1	Y 371.029	1020677.0	1020677.0	99.414 %			05:09:22
1	Ag 328.068†	4100.6	12.9	0.0532 µg/L		0.0532 ppb	05:09:24
1	As 188.979†	-7.4	13.0	3.9513 µg/L		3.9513 ppb	05:09:45
1	B 249.677†	3665.2	162.6	2.3976 µg/L		2.3976 ppb	05:09:24
1	Ba 233.527†	-117.3	18.5	0.0733 µg/L		0.0733 ppb	05:09:45
1	Be 313.107†	-931.7	132.1	0.0361 µg/L		0.0361 ppb	05:09:24
1	Cd 226.502†	-119.6	-1.5	-0.0209 µg/L		-0.0209 ppb	05:09:45
1	Co 228.616†	-181.8	8.3	0.0972 µg/L		0.0972 ppb	05:09:45
1	Cr 267.716†	190.7	12.3	0.0999 µg/L		0.0999 ppb	05:09:45
1	Cu 324.752†	2878.6	-91.0	-0.3378 µg/L		-0.3378 ppb	05:09:24
1	Mn 257.610†	1078.8	842.5	1.0424 µg/L		1.0424 ppb	05:09:45
1	Mo 202.031†	-24.2	-4.2	-0.1189 µg/L		-0.1189 ppb	05:09:45
1	Ni 231.604†	-78.4	-1.9	-0.0221 µg/L		-0.0221 ppb	05:09:45
1	P 214.914†	-28.4	-10.5	-2.2992 µg/L		-2.2992 ppb	05:09:45
1	Pb 220.353†	91.8	5.5	0.3055 µg/L		0.3055 ppb	05:09:45
1	S 181.975 Axial†	159.1	54.2	40.265 µg/L		40.265 ppb	05:09:45
1	Sb 206.836†	62.1	-18.7	-2.2261 µg/L		-2.2261 ppb	05:09:45
1	Se 196.026†	15.9	0.6	0.264 µg/L		0.264 ppb	05:09:45
1	SiO2†	2189.0	415.6	40.606 µg/L		40.606 ppb	05:09:24
1	Si 251.611†	2149.6	1315.0	19.378 µg/L		19.378 ppb	05:09:24
1	Sn 189.927†	23.1	24.2	1.5102 µg/L		1.5102 ppb	05:09:45
1	Ti 334.940†	1299.2	347.8	0.3261 µg/L		0.3261 ppb	05:09:24
1	Tl 190.801†	-111.1	5.5	0.6836 µg/L		0.6836 ppb	05:09:45
1	U 409.014†	-264.3	5.4	0.3302 µg/L		0.3302 ppb	05:09:24
1	V 292.402†	518.7	115.4	0.5505 µg/L		0.5505 ppb	05:09:24
1	Zn 213.857†	1015.8	452.3	2.5298 µg/L		2.5298 ppb	05:09:45
2	Sc RADIAL	142645.5	142645.5	97.7 %			05:09:13
2	Al 396.153Radial†	-33.0	29.5	5.4815 µg/L		5.4815 ppb	05:09:15
2	Ca 317.933Radial†	1124.6	589.9	32.858 µg/L		32.858 ppb	05:09:15
2	Fe 238.204 Radial†	1880.4	1775.6	109.44 µg/L		109.44 ppb	05:09:15
2	K 766.490 Radial†	1607.5	99.8	36.496 µg/L		36.496 ppb	05:09:13
2	Mg 279.077 IEC†	182.3	-4.2	-1.6596 µg/L		-1.6596 ppb	05:09:15
2	Na 589.592 Radial†	2324.7	1087.4	148.52 µg/L		148.52 ppb	05:09:15
2	Sr 421.552†	29.3	165.3	0.3434 µg/L		0.3434 ppb	05:09:15
2	Sc 361.383	1717722.6	1717722.6	99.971 %			05:09:47
2	Y 371.029	1021318.9	1021318.9	99.477 %			05:09:47
2	Ag 328.068†	4134.0	43.8	0.1407 µg/L		0.1407 ppb	05:09:49
2	As 188.979†	-11.9	8.4	2.5705 µg/L		2.5705 ppb	05:10:09
2	B 249.677†	3590.4	85.6	1.2618 µg/L		1.2618 ppb	05:09:49
2	Ba 233.527†	-100.2	35.6	0.1416 µg/L		0.1416 ppb	05:10:09
2	Be 313.107†	-1165.9	-101.6	-0.0311 µg/L		-0.0311 ppb	05:09:49
2	Cd 226.502†	-120.7	-2.6	-0.0274 µg/L		-0.0274 ppb	05:10:09
2	Co 228.616†	-183.1	7.1	0.0824 µg/L		0.0824 ppb	05:10:09
2	Cr 267.716†	240.8	62.3	0.5004 µg/L		0.5004 ppb	05:10:09
2	Cu 324.752†	3069.9	98.6	0.3895 µg/L		0.3895 ppb	05:09:49
2	Mn 257.610†	1096.7	859.7	1.0635 µg/L		1.0635 ppb	05:10:09
2	Mo 202.031†	-34.3	-14.2	-0.4145 µg/L		-0.4145 ppb	05:10:09
2	Ni 231.604†	-60.3	16.2	0.1870 µg/L		0.1870 ppb	05:10:09
2	P 214.914†	-17.1	0.9	0.1251 µg/L		0.1251 ppb	05:10:09
2	Pb 220.353†	77.2	-9.2	-0.5065 µg/L		-0.5065 ppb	05:10:09

2	S 181.975 Axial†	161.9	56.9	42.250 µg/L	42.250 ppb	05:10:09
2	Sb 206.836†	68.6	-12.2	-1.4674 µg/L	-1.4674 ppb	05:10:09
2	Se 196.026†	5.9	-9.4	-3.36 µg/L	-3.36 ppb	05:10:09
2	SiO2†	2287.9	513.2	50.162 µg/L	50.162 ppb	05:09:49
2	Si 251.611†	2035.5	1199.6	17.685 µg/L	17.685 ppb	05:09:49
2	Sn 189.927†	12.6	13.7	0.8568 µg/L	0.8568 ppb	05:10:09
2	Ti 334.940†	1218.9	266.7	0.2547 µg/L	0.2547 ppb	05:09:49
2	Tl 190.801†	-101.2	15.5	1.9011 µg/L	1.9011 ppb	05:10:09
2	U 409.014†	-467.2	-197.5	-11.589 µg/L	-11.589 ppb	05:09:49
2	V 292.402†	307.6	-96.1	-0.4907 µg/L	-0.4907 ppb	05:09:49
2	Zn 213.857†	987.0	422.9	2.3627 µg/L	2.3627 ppb	05:10:09
3	Sc RADIAL	142697.7	142697.7	97.8 %		05:09:17
3	Al 396.153Radial†	-91.2	-30.1	-5.5557 µg/L	-5.5557 ppb	05:09:19
3	Ca 317.933Radial†	1051.8	515.0	28.688 µg/L	28.688 ppb	05:09:19
3	Fe 238.204 Radial†	1948.3	1844.3	113.67 µg/L	113.67 ppb	05:09:19
3	K 766.490 Radial†	1457.7	-54.1	-19.819 µg/L	-19.819 ppb	05:09:17
3	Mg 279.077 IEC†	129.7	-58.0	-21.735 µg/L	-21.735 ppb	05:09:19
3	Na 589.592 Radial†	2175.0	933.4	127.53 µg/L	127.53 ppb	05:09:19
3	Sr 421.552†	202.2	342.0	0.7109 µg/L	0.7109 ppb	05:09:19
3	Sc 361.383	1715264.6	1715264.6	99.828 %		05:10:11
3	Y 371.029	1020778.1	1020778.1	99.424 %		05:10:11
3	Ag 328.068†	3940.9	-143.7	-0.5465 µg/L	-0.5465 ppb	05:10:13
3	As 188.979†	-16.7	3.7	1.1353 µg/L	1.1353 ppb	05:10:33
3	B 249.677†	3487.1	-12.8	-0.1907 µg/L	-0.1907 ppb	05:10:13
3	Ba 233.527†	-107.1	28.6	0.1134 µg/L	0.1134 ppb	05:10:33
3	Be 313.107†	-1157.4	-94.7	-0.0280 µg/L	-0.0280 ppb	05:10:13
3	Cd 226.502†	-105.3	12.7	0.0670 µg/L	0.0670 ppb	05:10:33
3	Co 228.616†	-154.2	35.8	0.4359 µg/L	0.4359 ppb	05:10:33
3	Cr 267.716†	185.9	7.7	0.0696 µg/L	0.0696 ppb	05:10:33
3	Cu 324.752†	3003.4	36.4	0.1515 µg/L	0.1515 ppb	05:10:13
3	Mn 257.610†	1105.3	869.9	1.0769 µg/L	1.0769 ppb	05:10:33
3	Mo 202.031†	-33.1	-13.1	-0.3815 µg/L	-0.3815 ppb	05:10:33
3	Ni 231.604†	-101.8	-25.5	-0.2932 µg/L	-0.2932 ppb	05:10:33
3	P 214.914†	-36.3	-18.4	-4.0000 µg/L	-4.0000 ppb	05:10:33
3	Pb 220.353†	70.4	-15.9	-0.8869 µg/L	-0.8869 ppb	05:10:33
3	S 181.975 Axial†	164.2	59.4	44.112 µg/L	44.112 ppb	05:10:33
3	Sb 206.836†	74.4	-6.3	-0.7592 µg/L	-0.7592 ppb	05:10:33
3	Se 196.026†	19.5	4.2	1.57 µg/L	1.57 ppb	05:10:33
3	SiO2†	2140.9	369.2	36.094 µg/L	36.094 ppb	05:10:13
3	Si 251.611†	2236.2	1403.5	20.694 µg/L	20.694 ppb	05:10:13
3	Sn 189.927†	6.7	7.9	0.4917 µg/L	0.4917 ppb	05:10:33
3	Ti 334.940†	1261.4	311.0	0.2961 µg/L	0.2961 ppb	05:10:13
3	Tl 190.801†	-112.1	4.4	0.5413 µg/L	0.5413 ppb	05:10:33
3	U 409.014†	-396.4	-127.2	-7.4728 µg/L	-7.4728 ppb	05:10:13
3	V 292.402†	345.5	-57.7	-0.3023 µg/L	-0.3023 ppb	05:10:13
3	Zn 213.857†	1007.4	444.7	2.4880 µg/L	2.4880 ppb	05:10:33

Mean Data: 1202056979|959150|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Sc 361.383	1716556.5	99.903 %		0.0718			0.07%
Sc RADIAL	142329.5	97.5 %		0.41			0.42%
Y 371.029	1020924.6	99.439 %		0.0336			0.03%
Ag 328.068†	-29.0	-0.1175 µg/L		0.37407	-0.1175 ppb	0.37407	318.24%
Al 396.153Radial†	8.3	1.5607 µg/L		6.17369	1.5607 ppb	6.17369	395.56%
As 188.979†	8.4	2.5524 µg/L		1.40810	2.5524 ppb	1.40810	55.17%
B 249.677†	78.4	1.1562 µg/L		1.29736	1.1562 ppb	1.29736	112.21%
Ba 233.527†	27.5	0.1094 µg/L		0.03433	0.1094 ppb	0.03433	31.37%
Be 313.107†	-21.4	-0.0077 µg/L		0.03794	-0.0077 ppb	0.03794	492.90%
Ca 317.933Radial†	534.9	29.794 µg/L		2.6881	29.794 ppb	2.6881	9.02%
Cd 226.502†	2.9	0.0062 µg/L		0.05274	0.0062 ppb	0.05274	844.73%
Co 228.616†	17.1	0.2052 µg/L		0.19993	0.2052 ppb	0.19993	97.44%
Cr 267.716†	27.4	0.2233 µg/L		0.24045	0.2233 ppb	0.24045	107.69%
Cu 324.752†	14.6	0.0677 µg/L		0.37077	0.0677 ppb	0.37077	547.39%
Fe 238.204 Radial†	1799.1	110.89 µg/L		2.411	110.89 ppb	2.411	2.17%
K 766.490 Radial†	27.0	9.8737 µg/L		28.28300	9.8737 ppb	28.28300	286.45%
Mg 279.077 IEC†	-27.4	-10.293 µg/L		10.3281	-10.293 ppb	10.3281	100.34%
Mn 257.610†	857.4	1.0609 µg/L		0.01737	1.0609 ppb	0.01737	1.64%
Mo 202.031†	-10.5	-0.3050 µg/L		0.16202	-0.3050 ppb	0.16202	53.13%
Na 589.592 Radial†	1022.5	139.68 µg/L		10.877	139.68 ppb	10.877	7.79%

Ni 231.604†	-3.7	-0.0428 µg/L	0.24076	-0.0428 ppb	0.24076	562.67%
P 214.914†	-9.3	-2.0580 µg/L	2.07311	-2.0580 ppb	2.07311	100.73%
Pb 220.353†	-6.5	-0.3627 µg/L	0.60910	-0.3627 ppb	0.60910	167.96%
S 181.975 Axial†	56.8	42.209 µg/L	1.9238	42.209 ppb	1.9238	4.56%
Sb 206.836†	-12.4	-1.4842 µg/L	0.73363	-1.4842 ppb	0.73363	49.43%
Se 196.026†	-1.5	-0.508 µg/L	2.5520	-0.508 ppb	2.5520	501.97%
SiO2†	432.7	42.287 µg/L	7.1830	42.287 ppb	7.1830	16.99%
Si 251.611†	1306.0	19.252 µg/L	1.5084	19.252 ppb	1.5084	7.83%
Sn 189.927†	15.3	0.9529 µg/L	0.51600	0.9529 ppb	0.51600	54.15%
Sr 421.552†	230.4	0.4788 µg/L	0.20189	0.4788 ppb	0.20189	42.16%
Ti 334.940†	308.5	0.2923 µg/L	0.03585	0.2923 ppb	0.03585	12.26%
Tl 190.801†	8.4	1.0420 µg/L	0.74739	1.0420 ppb	0.74739	71.73%
U 409.014†	-106.4	-6.2440 µg/L	6.05411	-6.2440 ppb	6.05411	96.96%
V 292.402†	-12.8	-0.0809 µg/L	0.55480	-0.0809 ppb	0.55480	686.18%
Zn 213.857†	440.0	2.4602 µg/L	0.08696	2.4602 ppb	0.08696	3.53%

Sequence No.: 6
 Sample ID: 1202056984|959150|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 304
 Date Collected: 4/1/2010 5:10:42
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202056984|959150|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146674.8	146674.8	101 %		05:11:14
1	Al 396.153Radial†	548382.9	545660.5	101140 µg/L	101140 ppb	05:11:14
1	Ca 317.933Radial†	1754701.8	1745228.0	97216 µg/L	97216 ppb	05:11:12
1	Fe 238.204 Radial†	3072806.2	3057049.5	188420 µg/L	188420 ppb	05:11:12
1	K 766.490 Radial†	118430.3	116283.9	42528 µg/L	42528 ppb	05:11:14
1	Mg 279.077 IEC†	106449.1	105717.7	39239 µg/L	39239 ppb	05:11:14
1	Na 589.592 Radial†	77952.9	76266.1	10381 µg/L	10381 ppb	05:11:14
1	Sr 421.552†	1098250.2	1092806.8	2271.1 µg/L	2271.1 ppb	05:11:12
1	Sc 361.383	1748796.2	1748796.2	101.78 %		05:11:43
1	Y 371.029	1112981.0	1112981.0	108.40 %		05:11:43
1	Ag 328.068†	82858.2	77318.0	295.60 µg/L	295.60 ppb	05:11:43
1	As 188.979†	3457.8	3417.7	1099.5 µg/L	1099.5 ppb	05:11:45
1	B 249.677†	104172.6	98845.2	1454.6 µg/L	1454.6 ppb	05:11:43
1	Ba 233.527†	475104.9	466933.3	1880.1 µg/L	1880.1 ppb	05:11:43
1	Be 313.107†	2946880.8	2896417.8	788.55 µg/L	788.55 ppb	05:11:43
1	Cd 226.502†	99145.1	97529.7	590.02 µg/L	590.02 ppb	05:11:43
1	Co 228.616†	76536.5	75388.5	922.53 µg/L	922.53 ppb	05:11:43
1	Cr 267.716†	304945.1	299434.5	2350.7 µg/L	2350.7 ppb	05:11:43
1	Cu 324.752†	484607.7	473161.9	1867.6 µg/L	1867.6 ppb	05:11:43
1	Mn 257.610†	4465435.6	4387117.9	5426.1 µg/L	5426.1 ppb	05:11:43
1	Mo 202.031†	17033.6	16755.8	501.02 µg/L	501.02 ppb	05:11:45
1	Ni 231.604†	119843.7	117824.7	1356.7 µg/L	1356.7 ppb	05:11:43
1	P 214.914†	36956.8	36328.6	7647.6 µg/L	7647.6 ppb	05:11:45
1	Pb 220.353†	15199.1	14847.0	837.57 µg/L	837.57 ppb	05:11:45
1	S 181.975 Axial†	5473.6	5272.9	3919.7 µg/L	3919.7 ppb	05:11:45
1	Sb 206.836†	9492.6	9245.8	1071.6 µg/L	1071.6 ppb	05:11:45
1	Se 196.026†	7735.2	7584.7	2810 µg/L	2810 ppb	05:11:45
1	SiO2†	863100.0	846232.9	82684 µg/L	82684 ppb	05:11:43
1	Si 251.611†	2663269.2	2615864.0	38552 µg/L	38552 ppb	05:11:43
1	Sn 189.927†	16115.6	15834.9	1006.9 µg/L	1006.9 ppb	05:11:45
1	Ti 334.940†	6394062.9	6281306.9	5867.1 µg/L	5867.1 ppb	05:11:43
1	Tl 190.801†	9217.0	9172.5	1204.5 µg/L	1204.5 ppb	05:11:45
1	U 409.014†	-5330.9	-4967.8	-225.94 µg/L	-225.94 ppb	05:11:43
1	V 292.402†	256940.1	252043.6	1219.2 µg/L	1219.2 ppb	05:11:43
1	Zn 213.857†	1056855.8	1037811.7	5803.8 µg/L	5803.8 ppb	05:11:43
2	Sc RADIAL	145570.4	145570.4	99.8 %		05:11:19
2	Al 396.153Radial†	542887.4	544290.6	100890 µg/L	100890 ppb	05:11:19
2	Ca 317.933Radial†	1741170.1	1744907.4	97198 µg/L	97198 ppb	05:11:16
2	Fe 238.204 Radial†	3048147.0	3055522.8	188320 µg/L	188320 ppb	05:11:16
2	K 766.490 Radial†	117348.0	116092.8	42458 µg/L	42458 ppb	05:11:19
2	Mg 279.077 IEC†	104926.1	104994.4	38970 µg/L	38970 ppb	05:11:19
2	Na 589.592 Radial†	77177.2	76076.9	10355 µg/L	10355 ppb	05:11:19
2	Sr 421.552†	1092771.6	1095604.3	2276.9 µg/L	2276.9 ppb	05:11:16
2	Sc 361.383	1751184.4	1751184.4	101.92 %		05:11:49
2	Y 371.029	1114133.4	1114133.4	108.52 %		05:11:49
2	Ag 328.068†	82602.4	76956.0	294.24 µg/L	294.24 ppb	05:11:49
2	As 188.979†	3392.4	3348.9	1078.6 µg/L	1078.6 ppb	05:11:51
2	B 249.677†	104405.1	98933.7	1455.9 µg/L	1455.9 ppb	05:11:49
2	Ba 233.527†	476003.0	467177.9	1881.1 µg/L	1881.1 ppb	05:11:49
2	Be 313.107†	2948209.9	2893773.4	787.83 µg/L	787.83 ppb	05:11:49
2	Cd 226.502†	99487.9	97733.2	591.30 µg/L	591.30 ppb	05:11:49
2	Co 228.616†	76624.2	75372.0	922.33 µg/L	922.33 ppb	05:11:49
2	Cr 267.716†	304958.5	299038.9	2347.6 µg/L	2347.6 ppb	05:11:49
2	Cu 324.752†	484907.2	472806.4	1866.2 µg/L	1866.2 ppb	05:11:49
2	Mn 257.610†	4469750.7	4385368.6	5424.0 µg/L	5424.0 ppb	05:11:49
2	Mo 202.031†	16898.8	16600.8	496.45 µg/L	496.45 ppb	05:11:51
2	Ni 231.604†	119966.8	117784.9	1356.2 µg/L	1356.2 ppb	05:11:49
2	P 214.914†	36807.7	36132.8	7605.7 µg/L	7605.7 ppb	05:11:51
2	Pb 220.353†	15258.8	14885.2	839.67 µg/L	839.67 ppb	05:11:51

2	S 181.975 Axial†	5444.5	5237.0	3893.0 µg/L	3893.0 ppb	05:11:51
2	Sb 206.836†	9345.6	9088.8	1052.9 µg/L	1052.9 ppb	05:11:51
2	Se 196.026†	7655.0	7495.6	2770 µg/L	2770 ppb	05:11:51
2	SiO2†	863994.3	845953.9	82657 µg/L	82657 ppb	05:11:49
2	Si 251.611†	2666102.9	2615075.9	38541 µg/L	38541 ppb	05:11:49
2	Sn 189.927†	16031.1	15730.4	1000.4 µg/L	1000.4 ppb	05:11:51
2	Ti 334.940†	6399015.9	6277599.3	5863.6 µg/L	5863.6 ppb	05:11:49
2	Tl 190.801†	9142.0	9086.5	1193.8 µg/L	1193.8 ppb	05:11:51
2	U 409.014†	-5359.9	-4989.1	-227.27 µg/L	-227.27 ppb	05:11:49
2	V 292.402†	256941.3	251700.5	1217.5 µg/L	1217.5 ppb	05:11:49
2	Zn 213.857†	1058337.8	1037849.7	5804.0 µg/L	5804.0 ppb	05:11:49
3	Sc RADIAL	145944.2	145944.2	100 %		05:11:23
3	Al 396.153Radial†	545423.7	545433.1	101100 µg/L	101100 ppb	05:11:23
3	Ca 317.933Radial†	1757328.7	1756594.6	97849 µg/L	97849 ppb	05:11:21
3	Fe 238.204 Radial†	3076827.3	3076375.5	189610 µg/L	189610 ppb	05:11:21
3	K 766.490 Radial†	117720.1	116163.7	42484 µg/L	42484 ppb	05:11:23
3	Mg 279.077 IEC†	105045.1	104844.0	38913 µg/L	38913 ppb	05:11:23
3	Na 589.592 Radial†	77195.9	75897.5	10331 µg/L	10331 ppb	05:11:23
3	Sr 421.552†	1103360.3	1103386.7	2293.1 µg/L	2293.1 ppb	05:11:21
3	Sc 361.383	1742513.2	1742513.2	101.41 %		05:11:55
3	Y 371.029	1109632.8	1109632.8	108.08 %		05:11:55
3	Ag 328.068†	82369.5	77129.6	294.86 µg/L	294.86 ppb	05:11:55
3	As 188.979†	3458.4	3430.6	1103.6 µg/L	1103.6 ppb	05:11:57
3	B 249.677†	103792.2	98839.1	1454.5 µg/L	1454.5 ppb	05:11:55
3	Ba 233.527†	472681.4	466226.7	1877.2 µg/L	1877.2 ppb	05:11:55
3	Be 313.107†	2928816.7	2889045.3	786.55 µg/L	786.55 ppb	05:11:55
3	Cd 226.502†	98645.0	97387.8	589.00 µg/L	589.00 ppb	05:11:55
3	Co 228.616†	76248.4	75375.6	922.30 µg/L	922.30 ppb	05:11:55
3	Cr 267.716†	303128.7	298723.7	2345.2 µg/L	2345.2 ppb	05:11:55
3	Cu 324.752†	481975.5	472283.2	1864.4 µg/L	1864.4 ppb	05:11:55
3	Mn 257.610†	4442752.9	4380571.1	5418.0 µg/L	5418.0 ppb	05:11:55
3	Mo 202.031†	16971.2	16754.6	501.02 µg/L	501.02 ppb	05:11:57
3	Ni 231.604†	118905.9	117324.6	1350.9 µg/L	1350.9 ppb	05:11:55
3	P 214.914†	37224.5	36723.4	7731.3 µg/L	7731.3 ppb	05:11:57
3	Pb 220.353†	15221.0	14922.4	841.73 µg/L	841.73 ppb	05:11:57
3	S 181.975 Axial†	5416.6	5236.0	3892.3 µg/L	3892.3 ppb	05:11:57
3	Sb 206.836†	9558.9	9344.8	1083.4 µg/L	1083.4 ppb	05:11:57
3	Se 196.026†	7733.4	7610.3	2820 µg/L	2820 ppb	05:11:57
3	SiO2†	858529.0	844783.3	82542 µg/L	82542 ppb	05:11:55
3	Si 251.611†	2647531.4	2609780.7	38463 µg/L	38463 ppb	05:11:55
3	Sn 189.927†	16182.3	15957.8	1014.6 µg/L	1014.6 ppb	05:11:57
3	Ti 334.940†	6362946.0	6273275.9	5859.6 µg/L	5859.6 ppb	05:11:55
3	Tl 190.801†	9288.0	9275.2	1217.0 µg/L	1217.0 ppb	05:11:57
3	U 409.014†	-5226.4	-4883.7	-221.47 µg/L	-221.47 ppb	05:11:55
3	V 292.402†	255419.9	251454.9	1216.2 µg/L	1216.2 ppb	05:11:55
3	Zn 213.857†	1050783.4	1035568.1	5791.1 µg/L	5791.1 ppb	05:11:55

Mean Data: 1202056984|959150|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1747497.9	101.70 %	0.261			0.26%
Sc RADIAL	146063.1	100 %	0.4			0.38%
Y 371.029	1112249.1	108.33 %	0.228			0.21%
Ag 328.068†	77134.5	294.90 µg/L	0.682	294.90 ppb	0.682	0.23%
Al 396.153Radial†	545128.1	101040 µg/L	136.0	101040 ppb	136.0	0.13%
As 188.979†	3399.1	1093.9 µg/L	13.39	1093.9 ppb	13.39	1.22%
B 249.677†	98872.7	1455.0 µg/L	0.78	1455.0 ppb	0.78	0.05%
Ba 233.527†	466779.3	1879.5 µg/L	2.00	1879.5 ppb	2.00	0.11%
Be 313.107†	2893078.8	787.64 µg/L	1.016	787.64 ppb	1.016	0.13%
Ca 317.933Radial†	1748910.0	97421 µg/L	370.8	97421 ppb	370.8	0.38%
Cd 226.502†	97550.2	590.10 µg/L	1.150	590.10 ppb	1.150	0.19%
Co 228.616†	75378.7	922.38 µg/L	0.123	922.38 ppb	0.123	0.01%
Cr 267.716†	299065.7	2347.8 µg/L	2.77	2347.8 ppb	2.77	0.12%
Cu 324.752†	472750.5	1866.0 µg/L	1.63	1866.0 ppb	1.63	0.09%
Fe 238.204 Radial†	3062982.6	188780 µg/L	716.4	188780 ppb	716.4	0.38%
K 766.490 Radial†	116180.2	42490 µg/L	35.3	42490 ppb	35.3	0.08%
Mg 279.077 IEC†	105185.4	39041 µg/L	174.4	39041 ppb	174.4	0.45%
Mn 257.610†	4384352.5	5422.7 µg/L	4.19	5422.7 ppb	4.19	0.08%
Mo 202.031†	16703.7	499.50 µg/L	2.638	499.50 ppb	2.638	0.53%
Na 589.592 Radial†	76080.1	10356 µg/L	25.2	10356 ppb	25.2	0.24%

Ni 231.604†	117644.7	1354.6 µg/L	3.20	1354.6 ppb	3.20	0.24%
P 214.914†	36394.9	7661.6 µg/L	63.95	7661.6 ppb	63.95	0.83%
Pb 220.353†	14884.8	839.66 µg/L	2.079	839.66 ppb	2.079	0.25%
S 181.975 Axial†	5248.6	3901.7 µg/L	15.61	3901.7 ppb	15.61	0.40%
Sb 206.836†	9226.5	1069.3 µg/L	15.39	1069.3 ppb	15.39	1.44%
Se 196.026†	7563.5	2800 µg/L	21.9	2800 ppb	21.9	0.78%
SiO2†	845656.7	82628 µg/L	75.3	82628 ppb	75.3	0.09%
Si 251.611†	2613573.5	38519 µg/L	48.8	38519 ppb	48.8	0.13%
Sn 189.927†	15841.0	1007.3 µg/L	7.09	1007.3 ppb	7.09	0.70%
Sr 421.552†	1097265.9	2280.4 µg/L	11.39	2280.4 ppb	11.39	0.50%
Ti 334.940†	6277394.0	5863.4 µg/L	3.73	5863.4 ppb	3.73	0.06%
Tl 190.801†	9178.1	1205.1 µg/L	11.57	1205.1 ppb	11.57	0.96%
U 409.014†	-4946.9	-224.89 µg/L	3.036	-224.89 ppb	3.036	1.35%
Concentration less than lower limit for U 409.014.						
V 292.402†	251733.0	1217.6 µg/L	1.51	1217.6 ppb	1.51	0.12%
Zn 213.857†	1037076.5	5799.6 µg/L	7.40	5799.6 ppb	7.40	0.13%

Sequence No.: 7

Sample ID: 248247001|959150|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 305

Date Collected: 4/1/2010 5:12:05

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248247001|959150|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	145376.2	145376.2	99.6 %		05:12:38
1	Al 396.153Radial†	187019.5	187794.9	34817 µg/L	34817 ppb	05:12:38
1	Ca 317.933Radial†	239352.1	239702.9	13352 µg/L	13352 ppb	05:12:38
1	Fe 238.204 Radial†	1519282.9	1524920.3	93987 µg/L	93987 ppb	05:12:36
1	K 766.490 Radial†	17231.0	15751.9	5755.8 µg/L	5755.8 ppb	05:12:38
1	Mg 279.077 IEC†	17883.3	17760.6	6536.9 µg/L	6536.9 ppb	05:12:38
1	Na 589.592 Radial†	18578.1	17358.0	2366.2 µg/L	2366.2 ppb	05:12:38
1	Sr 421.552†	40599.8	40889.7	84.903 µg/L	84.903 ppb	05:12:38
1	Sc 361.383	1744271.4	1744271.4	101.52 %		05:13:04
1	Y 371.029	1302291.7	1302291.7	126.84 %		05:13:04
1	Ag 328.068†	4100.4	-52.2	-1.5417 µg/L	-1.5417 ppb	05:13:04
1	As 188.979†	20.2	40.2	34.005 µg/L	34.005 ppb	05:13:25
1	B 249.677†	5237.6	1653.4	24.146 µg/L	24.146 ppb	05:13:04
1	Ba 233.527†	104523.9	103098.5	414.30 µg/L	414.30 ppb	05:13:04
1	Be 313.107†	29074.6	29705.0	7.9567 µg/L	7.9567 ppb	05:13:04
1	Cd 226.502†	1526.3	1621.7	0.2730 µg/L	0.2730 ppb	05:13:25
1	Co 228.616†	5480.1	5588.6	64.466 µg/L	64.466 ppb	05:13:25
1	Cr 267.716†	10206.8	9875.8	80.121 µg/L	80.121 ppb	05:13:25
1	Cu 324.752†	12900.2	9735.3	51.382 µg/L	51.382 ppb	05:13:04
1	Mn 257.610†	2575211.4	2536508.8	3137.9 µg/L	3137.9 ppb	05:13:04
1	Mo 202.031†	156.6	174.4	8.9906 µg/L	8.9906 ppb	05:13:25
1	Ni 231.604†	4967.1	4969.4	57.219 µg/L	57.219 ppb	05:13:25
1	P 214.914†	2720.8	2698.1	520.46 µg/L	520.46 ppb	05:13:25
1	Pb 220.353†	1339.0	1232.6	71.869 µg/L	71.869 ppb	05:13:25
1	S 181.975 Axial†	1446.9	1320.2	980.41 µg/L	980.41 ppb	05:13:25
1	Sb 206.836†	86.8	4.7	-1.7919 µg/L	-1.7919 ppb	05:13:25
1	Se 196.026†	-58.4	-72.8	5.86 µg/L	5.86 ppb	05:13:25
1	SiO2†	679110.0	667190.9	65212 µg/L	65212 ppb	05:13:04
1	Si 251.611†	2084060.5	2052094.9	30254 µg/L	30254 ppb	05:13:04
1	Sn 189.927†	107.9	107.4	15.899 µg/L	15.899 ppb	05:13:25
1	Ti 334.940†	2967052.3	2921781.6	2729.7 µg/L	2729.7 ppb	05:13:04
1	Tl 190.801†	-453.6	-330.1	-4.7815 µg/L	-4.7815 ppb	05:13:25
1	U 409.014†	-7824.4	-7437.6	-430.61 µg/L	-430.61 ppb	05:13:04
1	V 292.402†	17850.9	17180.5	71.458 µg/L	71.458 ppb	05:13:04
1	Zn 213.857†	79875.4	78117.9	430.32 µg/L	430.32 ppb	05:13:04
2	Sc RADIAL	144698.7	144698.7	99.2 %		05:12:42
2	Al 396.153Radial†	187615.9	189275.4	35091 µg/L	35091 ppb	05:12:42
2	Ca 317.933Radial†	239072.8	240546.2	13399 µg/L	13399 ppb	05:12:42
2	Fe 238.204 Radial†	1512234.0	1524951.9	93989 µg/L	93989 ppb	05:12:40
2	K 766.490 Radial†	17359.9	15962.9	5833.0 µg/L	5833.0 ppb	05:12:42
2	Mg 279.077 IEC†	17842.4	17803.5	6552.8 µg/L	6552.8 ppb	05:12:42
2	Na 589.592 Radial†	18757.3	17626.1	2402.7 µg/L	2402.7 ppb	05:12:42
2	Sr 421.552†	40953.5	41437.2	86.041 µg/L	86.041 ppb	05:12:42
2	Sc 361.383	1782632.6	1782632.6	103.75 %		05:13:27
2	Y 371.029	1330623.4	1330623.4	129.60 %		05:13:27
2	Ag 328.068†	4276.5	30.6	-1.2375 µg/L	-1.2375 ppb	05:13:27
2	As 188.979†	4.6	24.8	29.322 µg/L	29.322 ppb	05:13:47
2	B 249.677†	5249.7	1554.1	22.683 µg/L	22.683 ppb	05:13:27
2	Ba 233.527†	107147.3	103411.4	415.56 µg/L	415.56 ppb	05:13:27
2	Be 313.107†	29593.1	29588.5	7.9228 µg/L	7.9228 ppb	05:13:27
2	Cd 226.502†	1576.3	1637.5	0.3713 µg/L	0.3713 ppb	05:13:47
2	Co 228.616†	5523.4	5514.1	63.549 µg/L	63.549 ppb	05:13:47
2	Cr 267.716†	10218.9	9671.1	78.520 µg/L	78.520 ppb	05:13:47
2	Cu 324.752†	13011.1	9568.7	50.728 µg/L	50.728 ppb	05:13:27
2	Mn 257.610†	2641254.4	2545576.2	3149.1 µg/L	3149.1 ppb	05:13:27
2	Mo 202.031†	136.0	151.2	8.3086 µg/L	8.3086 ppb	05:13:47
2	Ni 231.604†	4999.1	4895.0	56.362 µg/L	56.362 ppb	05:13:47
2	P 214.914†	2739.7	2658.7	512.11 µg/L	512.11 ppb	05:13:47
2	Pb 220.353†	1365.8	1230.1	71.753 µg/L	71.753 ppb	05:13:47

2	S 181.975 Axial†	1463.3	1305.4	969.40 µg/L	969.40 ppb	05:13:47
2	Sb 206.836†	91.5	7.4	-1.4619 µg/L	-1.4619 ppb	05:13:47
2	Se 196.026†	-55.2	-68.5	7.42 µg/L	7.42 ppb	05:13:47
2	SiO2†	696176.1	669244.6	65413 µg/L	65413 ppb	05:13:27
2	Si 251.611†	2137961.5	2059870.3	30368 µg/L	30368 ppb	05:13:27
2	Sn 189.927†	99.6	97.2	15.273 µg/L	15.273 ppb	05:13:47
2	Ti 334.940†	3035759.4	2925110.5	2732.8 µg/L	2732.8 ppb	05:13:27
2	Tl 190.801†	-458.6	-325.3	-4.1183 µg/L	-4.1183 ppb	05:13:47
2	U 409.014†	-8124.3	-7560.8	-437.68 µg/L	-437.68 ppb	05:13:27
2	V 292.402†	18441.0	17370.8	72.364 µg/L	72.364 ppb	05:13:27
2	Zn 213.857†	82002.2	78474.7	432.33 µg/L	432.33 ppb	05:13:27
3	Sc RADIAL	146030.9	146030.9	100 %		05:12:46
3	Al 396.153Radial†	188551.2	188483.8	34944 µg/L	34944 ppb	05:12:46
3	Ca 317.933Radial†	241682.4	240954.4	13422 µg/L	13422 ppb	05:12:46
3	Fe 238.204 Radial†	1532024.1	1530814.5	94350 µg/L	94350 ppb	05:12:44
3	K 766.490 Radial†	17554.8	15997.9	5845.8 µg/L	5845.8 ppb	05:12:46
3	Mg 279.077 IEC†	18202.4	17999.0	6625.4 µg/L	6625.4 ppb	05:12:46
3	Na 589.592 Radial†	18854.6	17550.8	2392.4 µg/L	2392.4 ppb	05:12:46
3	Sr 421.552†	41120.0	41226.8	85.603 µg/L	85.603 ppb	05:12:46
3	Sc 361.383	1757117.0	1757117.0	102.26 %		05:13:50
3	Y 371.029	1311872.9	1311872.9	127.78 %		05:13:50
3	Ag 328.068†	4306.5	119.8	-0.9197 µg/L	-0.9197 ppb	05:13:50
3	As 188.979†	15.6	35.6	32.676 µg/L	32.676 ppb	05:14:10
3	B 249.677†	5133.5	1513.9	22.089 µg/L	22.089 ppb	05:13:50
3	Ba 233.527†	105479.2	103279.9	415.03 µg/L	415.03 ppb	05:13:50
3	Be 313.107†	29061.4	29482.7	7.8952 µg/L	7.8952 ppb	05:13:50
3	Cd 226.502†	1513.9	1598.5	0.0900 µg/L	0.0900 ppb	05:14:10
3	Co 228.616†	5499.3	5567.8	64.193 µg/L	64.193 ppb	05:14:10
3	Cr 267.716†	10243.2	9837.8	79.836 µg/L	79.836 ppb	05:14:10
3	Cu 324.752†	12771.8	9516.8	50.585 µg/L	50.585 ppb	05:13:50
3	Mn 257.610†	2598932.2	2541159.4	3143.7 µg/L	3143.7 ppb	05:13:50
3	Mo 202.031†	126.7	144.0	8.1123 µg/L	8.1123 ppb	05:14:10
3	Ni 231.604†	4947.7	4914.7	56.589 µg/L	56.589 ppb	05:14:10
3	P 214.914†	2762.2	2719.1	524.75 µg/L	524.75 ppb	05:14:10
3	Pb 220.353†	1356.1	1239.7	72.264 µg/L	72.264 ppb	05:14:10
3	S 181.975 Axial†	1470.6	1333.0	989.91 µg/L	989.91 ppb	05:14:10
3	Sb 206.836†	87.9	5.1	-1.7595 µg/L	-1.7595 ppb	05:14:10
3	Se 196.026†	-66.5	-80.3	3.28 µg/L	3.28 ppb	05:14:10
3	SiO2†	683972.0	667054.8	65199 µg/L	65199 ppb	05:13:50
3	Si 251.611†	2100928.9	2053581.6	30276 µg/L	30276 ppb	05:13:50
3	Sn 189.927†	104.2	103.0	15.634 µg/L	15.634 ppb	05:14:10
3	Ti 334.940†	2991911.9	2924723.9	2732.4 µg/L	2732.4 ppb	05:13:50
3	Tl 190.801†	-460.9	-334.1	-5.2220 µg/L	-5.2220 ppb	05:14:10
3	U 409.014†	-7936.4	-7490.8	-433.79 µg/L	-433.79 ppb	05:13:50
3	V 292.402†	17888.7	17088.9	70.957 µg/L	70.957 ppb	05:13:50
3	Zn 213.857†	80626.3	78277.0	431.18 µg/L	431.18 ppb	05:13:50

Mean Data: 248247001|959150|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1761340.3	102.51 %		1.136			1.11%
Sc RADIAL	145368.6	99.6 %		0.46			0.46%
Y 371.029	1314929.4	128.07 %		1.404			1.10%
Ag 328.068†	32.7	-1.2330 µg/L		0.31102	-1.2330 ppb	0.31102	25.23%
Al 396.153Radial†	188518.0	34951 µg/L		137.4	34951 ppb	137.4	0.39%
As 188.979†	33.5	32.001 µg/L		2.4132	32.001 ppb	2.4132	7.54%
B 249.677†	1573.8	22.973 µg/L		1.0583	22.973 ppb	1.0583	4.61%
Ba 233.527†	103263.3	414.97 µg/L		0.633	414.97 ppb	0.633	0.15%
Be 313.107†	29592.1	7.9249 µg/L		0.03078	7.9249 ppb	0.03078	0.39%
Ca 317.933Radial†	240401.2	13391 µg/L		35.6	13391 ppb	35.6	0.27%
Cd 226.502†	1619.2	0.2448 µg/L		0.14271	0.2448 ppb	0.14271	58.30%
Co 228.616†	5556.8	64.069 µg/L		0.4711	64.069 ppb	0.4711	0.74%
Cr 267.716†	9794.9	79.492 µg/L		0.8536	79.492 ppb	0.8536	1.07%
Cu 324.752†	9606.9	50.898 µg/L		0.4247	50.898 ppb	0.4247	0.83%
Fe 238.204 Radial†	1526895.5	94108 µg/L		209.2	94108 ppb	209.2	0.22%
K 766.490 Radial†	15904.2	5811.6 µg/L		48.69	5811.6 ppb	48.69	0.84%
Mg 279.077 IEC†	17854.4	6571.7 µg/L		47.16	6571.7 ppb	47.16	0.72%
Mn 257.610†	2541081.5	3143.6 µg/L		5.61	3143.6 ppb	5.61	0.18%
Mo 202.031†	156.5	8.4705 µg/L		0.46100	8.4705 ppb	0.46100	5.44%
Na 589.592 Radial†	17511.6	2387.1 µg/L		18.85	2387.1 ppb	18.85	0.79%

Ni 231.604†	4926.3	56.723 µg/L	0.4437	56.723 ppb	0.4437	0.78%
P 214.914†	2691.9	519.11 µg/L	6.428	519.11 ppb	6.428	1.24%
Pb 220.353†	1234.2	71.962 µg/L	0.2682	71.962 ppb	0.2682	0.37%
S 181.975 Axial†	1319.5	979.90 µg/L	10.266	979.90 ppb	10.266	1.05%
Sb 206.836†	5.7	-1.6711 µg/L	0.18190	-1.6711 ppb	0.18190	10.88%
Se 196.026†	-73.9	5.52 µg/L	2.089	5.52 ppb	2.089	37.83%
SiO2†	667830.1	65275 µg/L	119.9	65275 ppb	119.9	0.18%
Si 251.611†	2055182.3	30299 µg/L	60.9	30299 ppb	60.9	0.20%
Sn 189.927†	102.5	15.602 µg/L	0.3146	15.602 ppb	0.3146	2.02%
Sr 421.552†	41184.6	85.515 µg/L	0.5740	85.515 ppb	0.5740	0.67%
Ti 334.940†	2923872.0	2731.6 µg/L	1.70	2731.6 ppb	1.70	0.06%
Tl 190.801†	-329.8	-4.7073 µg/L	0.55554	-4.7073 ppb	0.55554	11.80%
U 409.014†	-7496.4	-434.03 µg/L	3.543	-434.03 ppb	3.543	0.82%
Concentration less than lower limit for U 409.014.						
V 292.402†	17213.4	71.593 µg/L	0.7132	71.593 ppb	0.7132	1.00%
Zn 213.857†	78289.8	431.28 µg/L	1.011	431.28 ppb	1.011	0.23%

Sequence No.: 8

Sample ID: 1202056980|959150|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 306

Date Collected: 4/1/2010 5:14:18

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056980|959150|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	144974.4	144974.4	99.3 %		05:14:50
1	Al 396.153Radial†	195387.7	196738.4	36475 µg/L	36475 ppb	05:14:50
1	Ca 317.933Radial†	402730.2	404823.5	22550 µg/L	22550 ppb	05:14:50
1	Fe 238.204 Radial†	1537249.2	1547231.3	95362 µg/L	95362 ppb	05:14:48
1	K 766.490 Radial†	18162.9	16737.8	6114.6 µg/L	6114.6 ppb	05:14:50
1	Mg 279.077 IEC†	19970.0	19910.9	7336.8 µg/L	7336.8 ppb	05:14:50
1	Na 589.592 Radial†	19130.6	17965.9	2448.9 µg/L	2448.9 ppb	05:14:50
1	Sr 421.552†	51906.0	52383.4	108.73 µg/L	108.73 ppb	05:14:50
1	Sc 361.383	1723988.4	1723988.4	100.34 %		05:15:17
1	Y 371.029	1283677.8	1283677.8	125.03 %		05:15:17
1	Ag 328.068†	4595.2	488.5	0.3923 µg/L	0.3923 ppb	05:15:17
1	As 188.979†	23.0	43.3	35.345 µg/L	35.345 ppb	05:15:37
1	B 249.677†	5037.9	1515.2	22.106 µg/L	22.106 ppb	05:15:17
1	Ba 233.527†	103041.2	102832.2	413.22 µg/L	413.22 ppb	05:15:17
1	Be 313.107†	28322.1	29292.0	7.8517 µg/L	7.8517 ppb	05:15:17
1	Cd 226.502†	1528.9	1642.0	0.2587 µg/L	0.2587 ppb	05:15:37
1	Co 228.616†	5418.7	5590.9	64.425 µg/L	64.425 ppb	05:15:37
1	Cr 267.716†	11603.8	11386.4	92.036 µg/L	92.036 ppb	05:15:37
1	Cu 324.752†	14318.4	11298.3	57.698 µg/L	57.698 ppb	05:15:17
1	Mn 257.610†	2340428.0	2332356.6	2885.3 µg/L	2885.3 ppb	05:15:17
1	Mo 202.031†	154.7	174.3	9.0581 µg/L	9.0581 ppb	05:15:37
1	Ni 231.604†	5501.0	5559.1	64.009 µg/L	64.009 ppb	05:15:37
1	P 214.914†	3325.4	3332.2	655.60 µg/L	655.60 ppb	05:15:37
1	Pb 220.353†	1380.3	1289.3	74.990 µg/L	74.990 ppb	05:15:37
1	S 181.975 Axial†	1766.5	1655.5	1229.4 µg/L	1229.4 ppb	05:15:37
1	Sb 206.836†	85.0	3.9	-2.0624 µg/L	-2.0624 ppb	05:15:37
1	Se 196.026†	-54.4	-69.5	7.55 µg/L	7.55 ppb	05:15:37
1	SiO2†	696945.8	692837.5	67719 µg/L	67719 ppb	05:15:17
1	Si 251.611†	2139802.9	2131803.7	31429 µg/L	31429 ppb	05:15:17
1	Sn 189.927†	359.0	358.9	31.377 µg/L	31.377 ppb	05:15:37
1	Ti 334.940†	2868317.1	2857763.3	2670.0 µg/L	2670.0 ppb	05:15:17
1	Tl 190.801†	-458.7	-340.5	-7.2604 µg/L	-7.2604 ppb	05:15:37
1	U 409.014†	-7309.9	-7015.5	-407.14 µg/L	-407.14 ppb	05:15:17
1	V 292.402†	18924.3	18457.2	77.664 µg/L	77.664 ppb	05:15:17
1	Zn 213.857†	77440.4	76616.7	421.61 µg/L	421.61 ppb	05:15:17
2	Sc RADIAL	145263.7	145263.7	99.5 %		05:14:54
2	Al 396.153Radial†	195512.7	196472.3	36426 µg/L	36426 ppb	05:14:54
2	Ca 317.933Radial†	403052.6	404340.0	22523 µg/L	22523 ppb	05:14:54
2	Fe 238.204 Radial†	1516631.0	1523436.5	93895 µg/L	93895 ppb	05:14:52
2	K 766.490 Radial†	18058.0	16596.0	6062.7 µg/L	6062.7 ppb	05:14:54
2	Mg 279.077 IEC†	19970.6	19871.5	7323.4 µg/L	7323.4 ppb	05:14:54
2	Na 589.592 Radial†	19104.8	17901.5	2440.2 µg/L	2440.2 ppb	05:14:54
2	Sr 421.552†	51978.7	52352.3	108.66 µg/L	108.66 ppb	05:14:54
2	Sc 361.383	1778003.4	1778003.4	103.48 %		05:15:40
2	Y 371.029	1323118.8	1323118.8	128.87 %		05:15:40
2	Ag 328.068†	4329.9	92.9	-1.0706 µg/L	-1.0706 ppb	05:15:40
2	As 188.979†	6.5	26.7	29.960 µg/L	29.960 ppb	05:16:00
2	B 249.677†	5203.4	1522.5	22.223 µg/L	22.223 ppb	05:15:40
2	Ba 233.527†	106494.3	103049.3	414.11 µg/L	414.11 ppb	05:15:40
2	Be 313.107†	29547.3	29618.5	7.9409 µg/L	7.9409 ppb	05:15:40
2	Cd 226.502†	1519.6	1586.7	0.0669 µg/L	0.0669 ppb	05:16:00
2	Co 228.616†	5402.5	5411.2	62.284 µg/L	62.284 ppb	05:16:00
2	Cr 267.716†	11585.5	11017.3	89.092 µg/L	89.092 ppb	05:16:00
2	Cu 324.752†	14626.4	11162.3	56.955 µg/L	56.955 ppb	05:15:40
2	Mn 257.610†	2420140.9	2338525.9	2892.9 µg/L	2892.9 ppb	05:15:40
2	Mo 202.031†	137.3	152.7	8.3673 µg/L	8.3673 ppb	05:16:00
2	Ni 231.604†	5507.6	5398.9	62.165 µg/L	62.165 ppb	05:16:00
2	P 214.914†	3303.9	3210.7	630.60 µg/L	630.60 ppb	05:16:00
2	Pb 220.353†	1362.2	1230.0	71.728 µg/L	71.728 ppb	05:16:00

2	S 181.975 Axial†	1758.1	1594.0	1183.7 µg/L	1183.7 ppb	05:16:00
2	Sb 206.836†	80.7	-2.9	-2.8119 µg/L	-2.8119 ppb	05:16:00
2	Se 196.026†	-67.6	-80.6	3.05 µg/L	3.05 ppb	05:16:00
2	SiO2†	721350.7	695319.7	67961 µg/L	67961 ppb	05:15:40
2	Si 251.611†	2214091.6	2138805.7	31532 µg/L	31532 ppb	05:15:40
2	Sn 189.927†	355.2	344.4	30.482 µg/L	30.482 ppb	05:16:00
2	Ti 334.940†	2961144.1	2860622.4	2672.7 µg/L	2672.7 ppb	05:15:40
2	Tl 190.801†	-459.8	-327.7	-5.6344 µg/L	-5.6344 ppb	05:16:00
2	U 409.014†	-7519.6	-6996.8	-405.69 µg/L	-405.69 ppb	05:15:40
2	V 292.402†	19387.1	18331.4	77.184 µg/L	77.184 ppb	05:15:40
2	Zn 213.857†	80038.4	76782.7	422.71 µg/L	422.71 ppb	05:15:40
3	Sc RADIAL	146224.0	146224.0	100 %		05:14:58
3	Al 396.153Radial†	196723.0	196390.4	36410 µg/L	36410 ppb	05:14:58
3	Ca 317.933Radial†	406358.0	404979.8	22559 µg/L	22559 ppb	05:14:58
3	Fe 238.204 Radial†	1513263.9	1510071.0	93072 µg/L	93072 ppb	05:14:56
3	K 766.490 Radial†	18513.8	16931.8	6185.6 µg/L	6185.6 ppb	05:14:58
3	Mg 279.077 IEC†	20188.2	19956.9	7355.9 µg/L	7355.9 ppb	05:14:58
3	Na 589.592 Radial†	19364.5	18034.7	2458.2 µg/L	2458.2 ppb	05:14:58
3	Sr 421.552†	52358.6	52388.5	108.74 µg/L	108.74 ppb	05:14:58
3	Sc 361.383	1752395.7	1752395.7	101.99 %		05:16:03
3	Y 371.029	1305482.2	1305482.2	127.15 %		05:16:03
3	Ag 328.068†	4105.0	-66.5	-1.6660 µg/L	-1.6660 ppb	05:16:03
3	As 188.979†	12.9	33.0	31.706 µg/L	31.706 ppb	05:16:23
3	B 249.677†	5062.2	1457.5	21.261 µg/L	21.261 ppb	05:16:03
3	Ba 233.527†	104850.8	102941.7	413.69 µg/L	413.69 ppb	05:16:03
3	Be 313.107†	29246.7	29740.9	7.9735 µg/L	7.9735 ppb	05:16:03
3	Cd 226.502†	1547.2	1635.3	0.4570 µg/L	0.4570 ppb	05:16:23
3	Co 228.616†	5407.2	5492.0	63.325 µg/L	63.325 ppb	05:16:23
3	Cr 267.716†	11589.5	11184.9	90.378 µg/L	90.378 ppb	05:16:23
3	Cu 324.752†	14414.7	11161.4	56.831 µg/L	56.831 ppb	05:16:03
3	Mn 257.610†	2380968.3	2334293.5	2887.7 µg/L	2887.7 ppb	05:16:03
3	Mo 202.031†	142.9	160.2	8.5544 µg/L	8.5544 ppb	05:16:23
3	Ni 231.604†	5514.7	5483.7	63.141 µg/L	63.141 ppb	05:16:23
3	P 214.914†	3301.0	3254.6	640.54 µg/L	640.54 ppb	05:16:23
3	Pb 220.353†	1377.8	1264.5	73.679 µg/L	73.679 ppb	05:16:23
3	S 181.975 Axial†	1761.2	1621.8	1204.4 µg/L	1204.4 ppb	05:16:23
3	Sb 206.836†	86.2	3.7	-2.0385 µg/L	-2.0385 ppb	05:16:23
3	Se 196.026†	-45.3	-59.6	10.3 µg/L	10.3 ppb	05:16:23
3	SiO2†	708373.7	692782.4	67713 µg/L	67713 ppb	05:16:03
3	Si 251.611†	2174329.6	2131085.6	31418 µg/L	31418 ppb	05:16:03
3	Sn 189.927†	351.9	346.1	30.588 µg/L	30.588 ppb	05:16:23
3	Ti 334.940†	2918149.5	2860282.4	2672.4 µg/L	2672.4 ppb	05:16:03
3	Tl 190.801†	-449.3	-323.8	-5.1835 µg/L	-5.1835 ppb	05:16:23
3	U 409.014†	-7456.5	-7041.2	-408.17 µg/L	-408.17 ppb	05:16:03
3	V 292.402†	18969.4	18195.7	76.615 µg/L	76.615 ppb	05:16:03
3	Zn 213.857†	78800.0	76698.7	422.32 µg/L	422.32 ppb	05:16:03

Mean Data: 1202056980|959150|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1751462.5	101.93 %	1.573			1.54%
Sc RADIAL	145487.4	99.7 %	0.45			0.45%
Y 371.029	1304092.9	127.02 %	1.924			1.52%
Ag 328.068†	171.6	-0.7814 µg/L	1.05922	-0.7814 ppb	1.05922	135.55%
Al 396.153Radial†	196533.7	36437 µg/L	33.7	36437 ppb	33.7	0.09%
As 188.979†	34.3	32.337 µg/L	2.7478	32.337 ppb	2.7478	8.50%
B 249.677†	1498.4	21.863 µg/L	0.5251	21.863 ppb	0.5251	2.40%
Ba 233.527†	102941.0	413.67 µg/L	0.447	413.67 ppb	0.447	0.11%
Be 313.107†	29550.5	7.9220 µg/L	0.06305	7.9220 ppb	0.06305	0.80%
Ca 317.933Radial†	404714.4	22544 µg/L	18.6	22544 ppb	18.6	0.08%
Cd 226.502†	1621.3	0.2609 µg/L	0.19504	0.2609 ppb	0.19504	74.76%
Co 228.616†	5498.0	63.345 µg/L	1.0704	63.345 ppb	1.0704	1.69%
Cr 267.716†	11196.2	90.502 µg/L	1.4761	90.502 ppb	1.4761	1.63%
Cu 324.752†	11207.3	57.161 µg/L	0.4689	57.161 ppb	0.4689	0.82%
Fe 238.204 Radial†	1526912.9	94110 µg/L	1160.1	94110 ppb	1160.1	1.23%
K 766.490 Radial†	16755.2	6121.0 µg/L	61.72	6121.0 ppb	61.72	1.01%
Mg 279.077 IEC†	19913.1	7338.7 µg/L	16.34	7338.7 ppb	16.34	0.22%
Mn 257.610†	2335058.7	2888.6 µg/L	3.91	2888.6 ppb	3.91	0.14%
Mo 202.031†	162.4	8.6599 µg/L	0.35731	8.6599 ppb	0.35731	4.13%
Na 589.592 Radial†	17967.4	2449.1 µg/L	9.04	2449.1 ppb	9.04	0.37%

Ni 231.604†	5480.6	63.105 µg/L	0.9226	63.105 ppb	0.9226	1.46%
P 214.914†	3265.9	642.25 µg/L	12.586	642.25 ppb	12.586	1.96%
Pb 220.353†	1261.3	73.466 µg/L	1.6414	73.466 ppb	1.6414	2.23%
S 181.975 Axial†	1623.8	1205.8 µg/L	22.90	1205.8 ppb	22.90	1.90%
Sb 206.836†	1.6	-2.3043 µg/L	0.43978	-2.3043 ppb	0.43978	19.09%
Se 196.026†	-69.9	6.98 µg/L	3.674	6.98 ppb	3.674	52.64%
SiO2†	693646.6	67798 µg/L	141.7	67798 ppb	141.7	0.21%
Si 251.611†	2133898.4	31460 µg/L	62.9	31460 ppb	62.9	0.20%
Sn 189.927†	349.8	30.816 µg/L	0.4890	30.816 ppb	0.4890	1.59%
Sr 421.552†	52374.7	108.71 µg/L	0.041	108.71 ppb	0.041	0.04%
Ti 334.940†	2859556.1	2671.7 µg/L	1.46	2671.7 ppb	1.46	0.05%
Tl 190.801†	-330.7	-6.0261 µg/L	1.09246	-6.0261 ppb	1.09246	18.13%
U 409.014†	-7017.9	-407.00 µg/L	1.246	-407.00 ppb	1.246	0.31%
Concentration less than lower limit for U 409.014.						
V 292.402†	18328.1	77.154 µg/L	0.5248	77.154 ppb	0.5248	0.68%
Zn 213.857†	76699.4	422.21 µg/L	0.558	422.21 ppb	0.558	0.13%

Sequence No.: 9

Sample ID: 1202056982|959150|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 307

Date Collected: 4/1/2010 5:16:31

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056982|959150|1

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146730.1	146730.1	101 %		05:17:03
1	Al 396.153Radial†	350005.4	348159.5	64526 µg/L	64526 ppb	05:17:03
1	Ca 317.933Radial†	367042.7	364480.0	20303 µg/L	20303 ppb	05:17:03
1	Fe 238.204 Radial†	1713022.7	1703530.7	105000 µg/L	105000 ppb	05:17:01
1	K 766.490 Radial†	37591.2	35841.4	13102 µg/L	13102 ppb	05:17:03
1	Mg 279.077 IEC†	37980.3	37582.4	13924 µg/L	13924 ppb	05:17:03
1	Na 589.592 Radial†	55355.9	53763.2	7333.0 µg/L	7333.0 ppb	05:17:03
1	Sr 421.552†	271987.7	270639.4	562.48 µg/L	562.48 ppb	05:17:01
1	Sc 361.383	1732765.2	1732765.2	100.85 %		05:17:31
1	Y 371.029	1429607.3	1429607.3	139.24 %		05:17:31
1	Ag 328.068†	124407.7	119271.8	446.33 µg/L	446.33 ppb	05:17:31
1	As 188.979†	1620.8	1627.6	522.37 µg/L	522.37 ppb	05:17:33
1	B 249.677†	36179.6	32369.9	475.61 µg/L	475.61 ppb	05:17:31
1	Ba 233.527†	220231.3	218518.2	879.73 µg/L	879.73 ppb	05:17:31
1	Be 313.107†	1739645.8	1726105.1	469.93 µg/L	469.93 ppb	05:17:31
1	Cd 226.502†	73840.3	73338.5	447.30 µg/L	447.30 ppb	05:17:31
1	Co 228.616†	41875.3	41714.0	510.12 µg/L	510.12 ppb	05:17:33
1	Cr 267.716†	71635.4	70855.4	557.98 µg/L	557.98 ppb	05:17:31
1	Cu 324.752†	144340.1	140156.0	560.49 µg/L	560.49 ppb	05:17:31
1	Mn 257.610†	2771205.3	2747702.1	3398.9 µg/L	3398.9 ppb	05:17:31
1	Mo 202.031†	16185.5	16069.7	476.87 µg/L	476.87 ppb	05:17:33
1	Ni 231.604†	47541.7	47219.0	543.69 µg/L	543.69 ppb	05:17:33
1	P 214.914†	6054.4	6021.5	1224.5 µg/L	1224.5 ppb	05:17:33
1	Pb 220.353†	13890.8	13687.8	770.89 µg/L	770.89 ppb	05:17:33
1	S 181.975 Axial†	8301.9	8127.2	6039.1 µg/L	6039.1 ppb	05:17:33
1	Sb 206.836†	3598.9	3487.8	413.09 µg/L	413.09 ppb	05:17:33
1	Se 196.026†	1250.8	1225.0	479 µg/L	479 ppb	05:17:33
1	SiO2†	730288.7	722382.1	70586 µg/L	70586 ppb	05:17:31
1	Si 251.611†	2255220.7	2235450.2	32947 µg/L	32947 ppb	05:17:31
1	Sn 189.927†	8614.7	8543.5	545.50 µg/L	545.50 ppb	05:17:33
1	Ti 334.940†	4132697.4	4097048.4	3827.0 µg/L	3827.0 ppb	05:17:31
1	Tl 190.801†	3309.5	3398.4	466.54 µg/L	466.54 ppb	05:17:33
1	U 409.014†	-3447.4	-3148.5	-152.01 µg/L	-152.01 ppb	05:17:31
1	V 292.402†	121425.3	120002.1	577.93 µg/L	577.93 ppb	05:17:31
1	Zn 213.857†	169035.7	167052.2	926.18 µg/L	926.18 ppb	05:17:31
2	Sc RADIAL	144766.3	144766.3	99.2 %		05:17:07
2	Al 396.153Radial†	345806.9	348649.2	64618 µg/L	64618 ppb	05:17:07
2	Ca 317.933Radial†	362296.8	364647.8	20312 µg/L	20312 ppb	05:17:07
2	Fe 238.204 Radial†	1733879.2	1747665.6	107720 µg/L	107720 ppb	05:17:05
2	K 766.490 Radial†	36869.1	35620.7	13021 µg/L	13021 ppb	05:17:07
2	Mg 279.077 IEC†	37566.1	37677.3	13957 µg/L	13957 ppb	05:17:07
2	Na 589.592 Radial†	54678.2	53826.9	7341.8 µg/L	7341.8 ppb	05:17:07
2	Sr 421.552†	274381.6	276721.9	575.13 µg/L	575.13 ppb	05:17:05
2	Sc 361.383	1738902.9	1738902.9	101.20 %		05:17:37
2	Y 371.029	1434804.8	1434804.8	139.75 %		05:17:37
2	Ag 328.068†	124603.0	119029.4	445.43 µg/L	445.43 ppb	05:17:37
2	As 188.979†	1594.8	1596.2	513.49 µg/L	513.49 ppb	05:17:39
2	B 249.677†	36391.1	32452.3	476.86 µg/L	476.86 ppb	05:17:37
2	Ba 233.527†	220921.8	218429.7	879.34 µg/L	879.34 ppb	05:17:37
2	Be 313.107†	1744925.1	1725232.9	469.70 µg/L	469.70 ppb	05:17:37
2	Cd 226.502†	74034.0	73271.5	446.59 µg/L	446.59 ppb	05:17:37
2	Co 228.616†	41174.1	40874.6	499.62 µg/L	499.62 ppb	05:17:39
2	Cr 267.716†	72087.8	71051.7	559.60 µg/L	559.60 ppb	05:17:37
2	Cu 324.752†	144908.3	140212.3	561.11 µg/L	561.11 ppb	05:17:37
2	Mn 257.610†	2781499.6	2748174.7	3399.5 µg/L	3399.5 ppb	05:17:37
2	Mo 202.031†	15976.0	15806.0	469.23 µg/L	469.23 ppb	05:17:39
2	Ni 231.604†	46788.2	46308.1	533.20 µg/L	533.20 ppb	05:17:39
2	P 214.914†	6000.8	5947.4	1206.9 µg/L	1206.9 ppb	05:17:39
2	Pb 220.353†	13731.6	13481.9	759.29 µg/L	759.29 ppb	05:17:39

2	S 181.975 Axial†	8081.5	7880.3	5855.7 µg/L	5855.7 ppb	05:17:39
2	Sb 206.836†	3573.5	3450.2	408.43 µg/L	408.43 ppb	05:17:39
2	Se 196.026†	1241.6	1211.6	475 µg/L	475 ppb	05:17:39
2	SiO2†	732580.9	722091.0	70558 µg/L	70558 ppb	05:17:37
2	Si 251.611†	2260644.1	2232915.8	32910 µg/L	32910 ppb	05:17:37
2	Sn 189.927†	8524.6	8424.3	538.07 µg/L	538.07 ppb	05:17:39
2	Ti 334.940†	4145268.0	4095005.0	3825.1 µg/L	3825.1 ppb	05:17:37
2	Tl 190.801†	3332.4	3409.4	467.92 µg/L	467.92 ppb	05:17:39
2	U 409.014†	-3206.8	-2898.8	-138.04 µg/L	-138.04 ppb	05:17:37
2	V 292.402†	121808.9	119956.2	577.36 µg/L	577.36 ppb	05:17:37
2	Zn 213.857†	169472.8	166892.4	925.06 µg/L	925.06 ppb	05:17:37
3	Sc RADIAL	145325.4	145325.4	99.6 %		05:17:12
3	Al 396.153Radial†	348157.4	349668.5	64806 µg/L	64806 ppb	05:17:12
3	Ca 317.933Radial†	363620.7	364572.2	20308 µg/L	20308 ppb	05:17:12
3	Fe 238.204 Radial†	1741036.9	1748129.1	107740 µg/L	107740 ppb	05:17:09
3	K 766.490 Radial†	37101.4	35710.9	13054 µg/L	13054 ppb	05:17:12
3	Mg 279.077 IEC†	37510.3	37475.5	13882 µg/L	13882 ppb	05:17:12
3	Na 589.592 Radial†	54799.8	53736.9	7329.5 µg/L	7329.5 ppb	05:17:12
3	Sr 421.552†	275296.3	276576.4	574.83 µg/L	574.83 ppb	05:17:09
3	Sc 361.383	1756770.6	1756770.6	102.24 %		05:17:43
3	Y 371.029	1449924.8	1449924.8	141.22 %		05:17:43
3	Ag 328.068†	126039.8	119182.4	446.01 µg/L	446.01 ppb	05:17:43
3	As 188.979†	1638.0	1622.4	521.42 µg/L	521.42 ppb	05:17:45
3	B 249.677†	36914.8	32598.8	479.00 µg/L	479.00 ppb	05:17:43
3	Ba 233.527†	223611.3	218839.9	880.99 µg/L	880.99 ppb	05:17:43
3	Be 313.107†	1768601.2	1730853.4	471.23 µg/L	471.23 ppb	05:17:43
3	Cd 226.502†	75280.6	73746.7	449.55 µg/L	449.55 ppb	05:17:43
3	Co 228.616†	42231.6	41495.1	507.28 µg/L	507.28 ppb	05:17:45
3	Cr 267.716†	72760.4	70985.1	559.08 µg/L	559.08 ppb	05:17:43
3	Cu 324.752†	146321.5	140138.2	560.83 µg/L	560.83 ppb	05:17:43
3	Mn 257.610†	2814264.0	2752266.7	3404.5 µg/L	3404.5 ppb	05:17:43
3	Mo 202.031†	16256.9	15920.2	472.59 µg/L	472.59 ppb	05:17:45
3	Ni 231.604†	47817.5	46844.7	539.38 µg/L	539.38 ppb	05:17:45
3	P 214.914†	6294.5	6174.3	1255.4 µg/L	1255.4 ppb	05:17:45
3	Pb 220.353†	14057.3	13662.4	769.39 µg/L	769.39 ppb	05:17:45
3	S 181.975 Axial†	8467.5	8176.7	6075.8 µg/L	6075.8 ppb	05:17:45
3	Sb 206.836†	3587.8	3428.2	405.88 µg/L	405.88 ppb	05:17:45
3	Se 196.026†	1348.1	1303.3	508 µg/L	508 ppb	05:17:45
3	SiO2†	741288.2	723245.0	70670 µg/L	70670 ppb	05:17:43
3	Si 251.611†	2287515.9	2236479.0	32962 µg/L	32962 ppb	05:17:43
3	Sn 189.927†	8703.1	8513.2	543.62 µg/L	543.62 ppb	05:17:45
3	Ti 334.940†	4192468.5	4099510.8	3829.3 µg/L	3829.3 ppb	05:17:43
3	Tl 190.801†	3385.6	3428.0	470.23 µg/L	470.23 ppb	05:17:45
3	U 409.014†	-3258.8	-2917.4	-139.04 µg/L	-139.04 ppb	05:17:43
3	V 292.402†	123293.2	120183.7	578.49 µg/L	578.49 ppb	05:17:43
3	Zn 213.857†	171801.3	167466.6	928.25 µg/L	928.25 ppb	05:17:43

Mean Data: 1202056982|959150|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1742812.9	101.43 %		0.726			0.72%
Sc RADIAL	145607.3	99.8 %		0.69			0.69%
Y 371.029	1438112.3	140.07 %		1.028			0.73%
Ag 328.068†	119161.2	445.92 µg/L		0.456	445.92 ppb	0.456	0.10%
Al 396.153Radial†	348825.7	64650 µg/L		142.8	64650 ppb	142.8	0.22%
As 188.979†	1615.4	519.09 µg/L		4.876	519.09 ppb	4.876	0.94%
B 249.677†	32473.7	477.16 µg/L		1.711	477.16 ppb	1.711	0.36%
Ba 233.527†	218595.9	880.02 µg/L		0.864	880.02 ppb	0.864	0.10%
Be 313.107†	1727397.1	470.29 µg/L		0.824	470.29 ppb	0.824	0.18%
Ca 317.933Radial†	364566.7	20308 µg/L		4.7	20308 ppb	4.7	0.02%
Cd 226.502†	73452.2	447.81 µg/L		1.550	447.81 ppb	1.550	0.35%
Co 228.616†	41361.3	505.67 µg/L		5.429	505.67 ppb	5.429	1.07%
Cr 267.716†	70964.1	558.89 µg/L		0.827	558.89 ppb	0.827	0.15%
Cu 324.752†	140168.8	560.81 µg/L		0.311	560.81 ppb	0.311	0.06%
Fe 238.204 Radial†	1733108.4	106820 µg/L		1578.8	106820 ppb	1578.8	1.48%
K 766.490 Radial†	35724.3	13059 µg/L		40.6	13059 ppb	40.6	0.31%
Mg 279.077 IEC†	37578.4	13921 µg/L		37.7	13921 ppb	37.7	0.27%
Mn 257.610†	2749381.1	3401.0 µg/L		3.10	3401.0 ppb	3.10	0.09%
Mo 202.031†	15932.0	472.90 µg/L		3.829	472.90 ppb	3.829	0.81%
Na 589.592 Radial†	53775.6	7334.8 µg/L		6.34	7334.8 ppb	6.34	0.09%

Ni 231.604†	46790.6	538.76 µg/L	5.272	538.76 ppb	5.272	0.98%
P 214.914†	6047.7	1228.9 µg/L	24.59	1228.9 ppb	24.59	2.00%
Pb 220.353†	13610.7	766.52 µg/L	6.312	766.52 ppb	6.312	0.82%
S 181.975 Axial†	8061.4	5990.2 µg/L	117.91	5990.2 ppb	117.91	1.97%
Sb 206.836†	3455.4	409.14 µg/L	3.652	409.14 ppb	3.652	0.89%
Se 196.026†	1246.6	488 µg/L	18.1	488 ppb	18.1	3.72%
SiO2†	722572.7	70605 µg/L	58.6	70605 ppb	58.6	0.08%
Si 251.611†	2234948.3	32940 µg/L	27.0	32940 ppb	27.0	0.08%
Sn 189.927†	8493.7	542.40 µg/L	3.867	542.40 ppb	3.867	0.71%
Sr 421.552†	274645.9	570.81 µg/L	7.215	570.81 ppb	7.215	1.26%
Ti 334.940†	4097188.1	3827.1 µg/L	2.11	3827.1 ppb	2.11	0.06%
Tl 190.801†	3411.9	468.23 µg/L	1.867	468.23 ppb	1.867	0.40%
U 409.014†	-2988.2	-143.03 µg/L	7.796	-143.03 ppb	7.796	5.45%
Concentration less than lower limit for U 409.014.						
V 292.402†	120047.3	577.93 µg/L	0.567	577.93 ppb	0.567	0.10%
Zn 213.857†	167137.1	926.50 µg/L	1.617	926.50 ppb	1.617	0.17%

Sequence No.: 10

Sample ID: 1202056983|959150|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 308

Date Collected: 4/1/2010 5:17:52

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056983|959150|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	144959.9	144959.9	99.3 %			05:18:24
1	Al 396.153Radial†	349425.8	351826.8	65207 µg/L		65207 ppb	05:18:24
1	Ca 317.933Radial†	386870.7	388898.4	21663 µg/L		21663 ppb	05:18:24
1	Fe 238.204 Radial†	1791403.0	1803240.0	111140 µg/L		111140 ppb	05:18:22
1	K 766.490 Radial†	37855.2	36563.7	13366 µg/L		13366 ppb	05:18:24
1	Mg 279.077 IEC†	37906.1	37969.0	14063 µg/L		14063 ppb	05:18:24
1	Na 589.592 Radial†	54478.4	53552.1	7304.0 µg/L		7304.0 ppb	05:18:24
1	Sr 421.552†	267917.7	269845.4	560.82 µg/L		560.82 ppb	05:18:22
1	Sc 361.383	1733199.3	1733199.3	100.87 %			05:18:38
1	Y 371.029	1364927.1	1364927.1	132.94 %			05:18:38
1	Ag 328.068†	124734.7	119565.1	447.49 µg/L		447.49 ppb	05:18:38
1	As 188.979†	1535.2	1542.3	498.25 µg/L		498.25 ppb	05:18:40
1	B 249.677†	35609.1	31795.4	467.16 µg/L		467.16 ppb	05:18:38
1	Ba 233.527†	221774.8	219993.7	885.59 µg/L		885.59 ppb	05:18:38
1	Be 313.107†	1738006.3	1724047.8	469.44 µg/L		469.44 ppb	05:18:38
1	Cd 226.502†	74098.7	73576.4	448.14 µg/L		448.14 ppb	05:18:38
1	Co 228.616†	41480.7	41312.4	504.86 µg/L		504.86 ppb	05:18:40
1	Cr 267.716†	76247.9	75410.2	593.65 µg/L		593.65 ppb	05:18:38
1	Cu 324.752†	143942.6	139726.2	559.91 µg/L		559.91 ppb	05:18:38
1	Mn 257.610†	2902888.5	2877558.9	3559.5 µg/L		3559.5 ppb	05:18:38
1	Mo 202.031†	15732.5	15616.6	463.80 µg/L		463.80 ppb	05:18:40
1	Ni 231.604†	47978.2	47640.0	548.54 µg/L		548.54 ppb	05:18:40
1	P 214.914†	5622.0	5591.3	1128.4 µg/L		1128.4 ppb	05:18:40
1	Pb 220.353†	10027.1	9854.0	556.68 µg/L		556.68 ppb	05:18:40
1	S 181.975 Axial†	8246.6	8070.2	5996.7 µg/L		5996.7 ppb	05:18:40
1	Sb 206.836†	3549.7	3438.2	406.33 µg/L		406.33 ppb	05:18:40
1	Se 196.026†	1189.5	1163.9	459 µg/L		459 ppb	05:18:40
1	SiO2†	721554.7	713542.2	69723 µg/L		69723 ppb	05:18:38
1	Si 251.611†	2226172.7	2206093.3	32515 µg/L		32515 ppb	05:18:38
1	Sn 189.927†	8194.4	8124.7	519.71 µg/L		519.71 ppb	05:18:40
1	Ti 334.940†	4233395.2	4195849.5	3919.2 µg/L		3919.2 ppb	05:18:38
1	Tl 190.801†	3305.1	3393.2	467.21 µg/L		467.21 ppb	05:18:40
1	U 409.014†	476.1	741.9	74.672 µg/L		74.672 ppb	05:18:38
1	V 292.402†	119821.3	118381.7	569.46 µg/L		569.46 ppb	05:18:38
1	Zn 213.857†	173734.4	171668.2	951.47 µg/L		951.47 ppb	05:18:38
2	Sc RADIAL	144942.3	144942.3	99.3 %			05:18:28
2	Al 396.153Radial†	349695.5	352141.0	65265 µg/L		65265 ppb	05:18:28
2	Ca 317.933Radial†	386419.6	388491.5	21641 µg/L		21641 ppb	05:18:28
2	Fe 238.204 Radial†	1807391.3	1819556.0	112150 µg/L		112150 ppb	05:18:26
2	K 766.490 Radial†	37654.5	36366.3	13293 µg/L		13293 ppb	05:18:28
2	Mg 279.077 IEC†	37859.3	37926.5	14046 µg/L		14046 ppb	05:18:28
2	Na 589.592 Radial†	54323.9	53403.2	7283.7 µg/L		7283.7 ppb	05:18:28
2	Sr 421.552†	270151.0	272126.7	565.57 µg/L		565.57 ppb	05:18:26
2	Sc 361.383	1738086.1	1738086.1	101.16 %			05:18:44
2	Y 371.029	1368887.2	1368887.2	133.33 %			05:18:44
2	Ag 328.068†	125307.3	119783.5	448.32 µg/L		448.32 ppb	05:18:44
2	As 188.979†	1548.5	1551.2	501.19 µg/L		501.19 ppb	05:18:46
2	B 249.677†	35783.5	31868.5	468.21 µg/L		468.21 ppb	05:18:44
2	Ba 233.527†	222158.6	219754.9	884.62 µg/L		884.62 ppb	05:18:44
2	Be 313.107†	1742913.8	1724054.9	469.45 µg/L		469.45 ppb	05:18:44
2	Cd 226.502†	74173.0	73443.3	447.20 µg/L		447.20 ppb	05:18:44
2	Co 228.616†	42128.2	41836.9	511.27 µg/L		511.27 ppb	05:18:46
2	Cr 267.716†	76370.4	75318.8	592.96 µg/L		592.96 ppb	05:18:44
2	Cu 324.752†	144687.6	140061.4	561.37 µg/L		561.37 ppb	05:18:44
2	Mn 257.610†	2910841.8	2877330.0	3559.3 µg/L		3559.3 ppb	05:18:44
2	Mo 202.031†	16064.6	15901.0	472.20 µg/L		472.20 ppb	05:18:46
2	Ni 231.604†	48683.5	48203.5	555.03 µg/L		555.03 ppb	05:18:46
2	P 214.914†	5681.3	5634.4	1136.9 µg/L		1136.9 ppb	05:18:46
2	Pb 220.353†	10247.4	10043.8	567.27 µg/L		567.27 ppb	05:18:46

2	S 181.975 Axial†	8430.5	8229.0	6114.7 µg/L	6114.7 ppb	05:18:46
2	Sb 206.836†	3605.4	3483.3	411.82 µg/L	411.82 ppb	05:18:46
2	Se 196.026†	1324.8	1294.4	507 µg/L	507 ppb	05:18:46
2	SiO2†	723345.2	713301.1	69699 µg/L	69699 ppb	05:18:44
2	Si 251.611†	2232936.1	2206574.3	32522 µg/L	32522 ppb	05:18:44
2	Sn 189.927†	8315.2	8221.2	525.74 µg/L	525.74 ppb	05:18:46
2	Ti 334.940†	4249696.3	4200164.5	3923.3 µg/L	3923.3 ppb	05:18:44
2	Tl 190.801†	3390.5	3468.4	476.47 µg/L	476.47 ppb	05:18:46
2	U 409.014†	712.3	974.1	88.058 µg/L	88.058 ppb	05:18:44
2	V 292.402†	120316.4	118537.2	570.20 µg/L	570.20 ppb	05:18:44
2	Zn 213.857†	174322.1	171765.0	951.87 µg/L	951.87 ppb	05:18:44
3	Sc RADIAL	145798.0	145798.0	99.9 %		05:18:32
3	Al 396.153Radial†	351881.4	352262.7	65288 µg/L	65288 ppb	05:18:32
3	Ca 317.933Radial†	389535.6	389327.2	21687 µg/L	21687 ppb	05:18:32
3	Fe 238.204 Radial†	1789915.6	1791385.7	110410 µg/L	110410 ppb	05:18:30
3	K 766.490 Radial†	37911.5	36401.0	13306 µg/L	13306 ppb	05:18:32
3	Mg 279.077 IEC†	38083.0	37926.7	14048 µg/L	14048 ppb	05:18:32
3	Na 589.592 Radial†	54521.3	53279.8	7266.8 µg/L	7266.8 ppb	05:18:32
3	Sr 421.552†	268193.2	268570.9	558.17 µg/L	558.17 ppb	05:18:30
3	Sc 361.383	1738919.4	1738919.4	101.20 %		05:18:50
3	Y 371.029	1370268.5	1370268.5	133.46 %		05:18:50
3	Ag 328.068†	125045.3	119465.2	447.14 µg/L	447.14 ppb	05:18:50
3	As 188.979†	1551.8	1553.7	501.57 µg/L	501.57 ppb	05:18:52
3	B 249.677†	35926.8	31993.2	470.07 µg/L	470.07 ppb	05:18:50
3	Ba 233.527†	222456.6	219944.1	885.40 µg/L	885.40 ppb	05:18:50
3	Be 313.107†	1744475.1	1724771.9	469.64 µg/L	469.64 ppb	05:18:50
3	Cd 226.502†	74338.2	73571.4	448.19 µg/L	448.19 ppb	05:18:50
3	Co 228.616†	41831.9	41524.2	507.51 µg/L	507.51 ppb	05:18:52
3	Cr 267.716†	76470.6	75381.7	593.39 µg/L	593.39 ppb	05:18:50
3	Cu 324.752†	144816.6	140120.4	561.34 µg/L	561.34 ppb	05:18:50
3	Mn 257.610†	2914898.9	2879959.9	3562.5 µg/L	3562.5 ppb	05:18:50
3	Mo 202.031†	16006.9	15836.4	470.23 µg/L	470.23 ppb	05:18:52
3	Ni 231.604†	48444.8	47944.6	552.05 µg/L	552.05 ppb	05:18:52
3	P 214.914†	5730.3	5680.0	1147.8 µg/L	1147.8 ppb	05:18:52
3	Pb 220.353†	10180.9	9973.3	563.39 µg/L	563.39 ppb	05:18:52
3	S 181.975 Axial†	8334.1	8129.9	6041.0 µg/L	6041.0 ppb	05:18:52
3	Sb 206.836†	3588.8	3465.3	409.65 µg/L	409.65 ppb	05:18:52
3	Se 196.026†	1218.7	1188.9	468 µg/L	468 ppb	05:18:52
3	SiO2†	723698.4	713307.4	69699 µg/L	69699 ppb	05:18:50
3	Si 251.611†	2232991.5	2205571.2	32507 µg/L	32507 ppb	05:18:50
3	Sn 189.927†	8229.4	8132.6	520.22 µg/L	520.22 ppb	05:18:52
3	Ti 334.940†	4254153.0	4202554.9	3925.5 µg/L	3925.5 ppb	05:18:50
3	Tl 190.801†	3368.9	3445.4	473.69 µg/L	473.69 ppb	05:18:52
3	U 409.014†	702.8	964.3	87.872 µg/L	87.872 ppb	05:18:50
3	V 292.402†	120244.5	118409.2	569.74 µg/L	569.74 ppb	05:18:50
3	Zn 213.857†	174361.2	171721.0	951.83 µg/L	951.83 ppb	05:18:50

Mean Data: 1202056983|959150|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1736734.9	101.08 %	0.180			0.18%
Sc RADIAL	145233.4	99.5 %	0.34			0.34%
Y 371.029	1368027.6	133.25 %	0.270			0.20%
Ag 328.068†	119604.6	447.65 µg/L	0.605	447.65 ppb	0.605	0.14%
Al 396.153Radial†	352076.8	65253 µg/L	41.5	65253 ppb	41.5	0.06%
As 188.979†	1549.0	500.33 µg/L	1.814	500.33 ppb	1.814	0.36%
B 249.677†	31885.7	468.48 µg/L	1.472	468.48 ppb	1.472	0.31%
Ba 233.527†	219897.6	885.20 µg/L	0.516	885.20 ppb	0.516	0.06%
Be 313.107†	1724291.5	469.51 µg/L	0.114	469.51 ppb	0.114	0.02%
Ca 317.933Radial†	388905.7	21664 µg/L	23.3	21664 ppb	23.3	0.11%
Cd 226.502†	73530.4	447.84 µg/L	0.553	447.84 ppb	0.553	0.12%
Co 228.616†	41557.9	507.88 µg/L	3.225	507.88 ppb	3.225	0.63%
Cr 267.716†	75370.2	593.33 µg/L	0.349	593.33 ppb	0.349	0.06%
Cu 324.752†	139969.3	560.87 µg/L	0.838	560.87 ppb	0.838	0.15%
Fe 238.204 Radial†	1804727.2	111230 µg/L	871.7	111230 ppb	871.7	0.78%
K 766.490 Radial†	36443.7	13322 µg/L	38.6	13322 ppb	38.6	0.29%
Mg 279.077 IEC†	37940.8	14052 µg/L	9.1	14052 ppb	9.1	0.06%
Mn 257.610†	2878282.9	3560.4 µg/L	1.80	3560.4 ppb	1.80	0.05%
Mo 202.031†	15784.7	468.74 µg/L	4.393	468.74 ppb	4.393	0.94%
Na 589.592 Radial†	53411.7	7284.8 µg/L	18.60	7284.8 ppb	18.60	0.26%

Ni 231.604†	47929.4	551.87 µg/L	3.248	551.87 ppb	3.248	0.59%
P 214.914†	5635.2	1137.7 µg/L	9.73	1137.7 ppb	9.73	0.86%
Pb 220.353†	9957.1	562.44 µg/L	5.353	562.44 ppb	5.353	0.95%
S 181.975 Axial†	8143.0	6050.8 µg/L	59.61	6050.8 ppb	59.61	0.99%
Sb 206.836†	3462.3	409.26 µg/L	2.764	409.26 ppb	2.764	0.68%
Se 196.026†	1215.7	478 µg/L	25.3	478 ppb	25.3	5.29%
SiO2†	713383.6	69707 µg/L	13.6	69707 ppb	13.6	0.02%
Si 251.611†	2206079.6	32514 µg/L	7.4	32514 ppb	7.4	0.02%
Sn 189.927†	8159.5	521.89 µg/L	3.343	521.89 ppb	3.343	0.64%
Sr 421.552†	270181.0	561.52 µg/L	3.745	561.52 ppb	3.745	0.67%
Ti 334.940†	4199523.0	3922.7 µg/L	3.17	3922.7 ppb	3.17	0.08%
Tl 190.801†	3435.7	472.45 µg/L	4.751	472.45 ppb	4.751	1.01%
U 409.014†	893.4	83.534 µg/L	7.6757	83.534 ppb	7.6757	9.19%
V 292.402†	118442.7	569.80 µg/L	0.374	569.80 ppb	0.374	0.07%
Zn 213.857†	171718.1	951.72 µg/L	0.218	951.72 ppb	0.218	0.02%

Sequence No.: 11

Sample ID: 1202056981|959150|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 309

Date Collected: 4/1/2010 5:18:59

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056981|959150|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc RADIAL	144771.3	144771.3	99.2	%		05:19:29
1	Al 396.153Radial†	38680.9	39053.6	7240.5	µg/L	7240.5 ppb	05:19:31
1	Ca 317.933Radial†	49613.1	49449.5	2754.5	µg/L	2754.5 ppb	05:19:31
1	Fe 238.204 Radial†	310245.1	312579.6	19265	µg/L	19265 ppb	05:19:29
1	K 766.490 Radial†	4879.6	3373.8	1232.9	µg/L	1232.9 ppb	05:19:31
1	Mg 279.077 IEC†	3839.7	3679.7	1354.5	µg/L	1354.5 ppb	05:19:31
1	Na 589.592 Radial†	5449.3	4202.1	572.96	µg/L	572.96 ppb	05:19:31
1	Sr 421.552†	8426.9	8629.6	17.919	µg/L	17.919 ppb	05:19:31
1	Sc 361.383	1753785.8	1753785.8	102.07	%		05:19:57
1	Y 371.029	1093346.4	1093346.4	106.49	%		05:19:57
1	Ag 328.068†	4056.6	-117.1	-0.7726	µg/L	-0.7726 ppb	05:19:57
1	As 188.979†	-17.9	2.8	5.3315	µg/L	5.3315 ppb	05:20:17
1	B 249.677†	3925.8	340.3	4.9691	µg/L	4.9691 ppb	05:20:17
1	Ba 233.527†	21233.1	20938.3	84.138	µg/L	84.138 ppb	05:20:17
1	Be 313.107†	5106.5	6067.6	1.6122	µg/L	1.6122 ppb	05:19:57
1	Cd 226.502†	238.1	351.5	0.1750	µg/L	0.1750 ppb	05:20:17
1	Co 228.616†	990.8	1161.0	13.404	µg/L	13.404 ppb	05:20:17
1	Cr 267.716†	2189.1	1966.1	15.998	µg/L	15.998 ppb	05:20:17
1	Cu 324.752†	4675.1	1608.0	8.9915	µg/L	8.9915 ppb	05:19:57
1	Mn 257.610†	537549.1	526410.0	651.22	µg/L	651.22 ppb	05:19:57
1	Mo 202.031†	-3.6	16.6	1.2793	µg/L	1.2793 ppb	05:20:17
1	Ni 231.604†	939.6	997.1	11.481	µg/L	11.481 ppb	05:20:17
1	P 214.914†	543.9	550.8	106.26	µg/L	106.26 ppb	05:20:17
1	Pb 220.353†	361.7	268.0	15.611	µg/L	15.611 ppb	05:20:17
1	S 181.975 Axial†	404.6	291.4	216.36	µg/L	216.36 ppb	05:20:17
1	Sb 206.836†	83.7	1.2	-0.3435	µg/L	-0.3435 ppb	05:20:17
1	Se 196.026†	-7.3	-22.4	-1.56	µg/L	-1.56 ppb	05:20:17
1	SiO2†	138790.1	134200.0	13117	µg/L	13117 ppb	05:19:57
1	Si 251.611†	425488.1	416022.3	6133.3	µg/L	6133.3 ppb	05:19:57
1	Sn 189.927†	31.6	32.1	3.8567	µg/L	3.8567 ppb	05:20:17
1	Ti 334.940†	602074.4	588911.4	550.21	µg/L	550.21 ppb	05:19:57
1	Tl 190.801†	-210.1	-89.1	-3.6965	µg/L	-3.6965 ppb	05:20:17
1	U 409.014†	-2577.7	-2255.5	-130.99	µg/L	-130.99 ppb	05:19:57
1	V 292.402†	3879.6	3397.1	14.012	µg/L	14.012 ppb	05:20:17
1	Zn 213.857†	16722.3	15818.7	87.116	µg/L	87.116 ppb	05:20:17
2	Sc RADIAL	145139.2	145139.2	99.5	%		05:19:33
2	Al 396.153Radial†	37690.7	37959.2	7037.6	µg/L	7037.6 ppb	05:19:35
2	Ca 317.933Radial†	48327.3	48030.0	2675.5	µg/L	2675.5 ppb	05:19:35
2	Fe 238.204 Radial†	311618.5	313167.7	19302	µg/L	19302 ppb	05:19:33
2	K 766.490 Radial†	4765.0	3246.1	1186.2	µg/L	1186.2 ppb	05:19:35
2	Mg 279.077 IEC†	3760.5	3590.3	1321.1	µg/L	1321.1 ppb	05:19:35
2	Na 589.592 Radial†	5324.0	4062.2	553.89	µg/L	553.89 ppb	05:19:35
2	Sr 421.552†	8086.1	8265.4	17.162	µg/L	17.162 ppb	05:19:35
2	Sc 361.383	1746449.8	1746449.8	101.64	%		05:20:20
2	Y 371.029	1089950.3	1089950.3	106.16	%		05:20:20
2	Ag 328.068†	4186.3	27.2	-0.2125	µg/L	-0.2125 ppb	05:20:20
2	As 188.979†	-6.3	14.1	8.7540	µg/L	8.7540 ppb	05:20:40
2	B 249.677†	3893.5	324.7	4.7389	µg/L	4.7389 ppb	05:20:40
2	Ba 233.527†	21441.6	21230.8	85.317	µg/L	85.317 ppb	05:20:40
2	Be 313.107†	5242.2	6222.1	1.6597	µg/L	1.6597 ppb	05:20:20
2	Cd 226.502†	234.8	349.2	0.1573	µg/L	0.1573 ppb	05:20:40
2	Co 228.616†	973.4	1148.0	13.243	µg/L	13.243 ppb	05:20:40
2	Cr 267.716†	2232.9	2018.2	16.395	µg/L	16.395 ppb	05:20:40
2	Cu 324.752†	4812.5	1762.5	9.6106	µg/L	9.6106 ppb	05:20:20
2	Mn 257.610†	534039.2	525169.0	649.69	µg/L	649.69 ppb	05:20:20
2	Mo 202.031†	-2.0	18.1	1.3247	µg/L	1.3247 ppb	05:20:40
2	Ni 231.604†	973.8	1034.5	11.912	µg/L	11.912 ppb	05:20:40
2	P 214.914†	518.2	527.8	101.27	µg/L	101.27 ppb	05:20:40
2	Pb 220.353†	323.6	232.0	13.574	µg/L	13.574 ppb	05:20:40

2	S 181.975 Axial†	406.2	294.6	218.78 µg/L	218.78 ppb	05:20:40
2	Sb 206.836†	60.5	-21.3	-3.0213 µg/L	-3.0213 ppb	05:20:40
2	Se 196.026†	12.3	-3.2	5.43 µg/L	5.43 ppb	05:20:40
2	SiO2†	138177.6	134168.6	13114 µg/L	13114 ppb	05:20:20
2	Si 251.611†	423017.8	415343.0	6123.3 µg/L	6123.3 ppb	05:20:20
2	Sn 189.927†	38.6	39.1	4.2933 µg/L	4.2933 ppb	05:20:40
2	Ti 334.940†	599899.5	589249.3	550.52 µg/L	550.52 ppb	05:20:20
2	Tl 190.801†	-190.1	-70.4	-1.3890 µg/L	-1.3890 ppb	05:20:40
2	U 409.014†	-2258.4	-1952.0	-113.26 µg/L	-113.26 ppb	05:20:20
2	V 292.402†	3892.5	3425.8	14.162 µg/L	14.162 ppb	05:20:40
2	Zn 213.857†	16828.8	15992.3	88.081 µg/L	88.081 ppb	05:20:40
3	Sc RADIAL	145300.1	145300.1	99.6 %		05:19:37
3	Al 396.153Radial†	38848.1	39079.7	7245.3 µg/L	7245.3 ppb	05:19:39
3	Ca 317.933Radial†	49850.7	49506.1	2757.7 µg/L	2757.7 ppb	05:19:39
3	Fe 238.204 Radial†	312049.9	313254.1	19307 µg/L	19307 ppb	05:19:37
3	K 766.490 Radial†	4725.0	3200.7	1169.5 µg/L	1169.5 ppb	05:19:39
3	Mg 279.077 IEC†	3888.6	3714.7	1367.5 µg/L	1367.5 ppb	05:19:39
3	Na 589.592 Radial†	5610.5	4344.0	592.40 µg/L	592.40 ppb	05:19:39
3	Sr 421.552†	8320.8	8492.1	17.633 µg/L	17.633 ppb	05:19:39
3	Sc 361.383	1763584.6	1763584.6	102.64 %		05:20:43
3	Y 371.029	1099868.8	1099868.8	107.13 %		05:20:43
3	Ag 328.068†	4382.7	178.5	0.3332 µg/L	0.3332 ppb	05:20:43
3	As 188.979†	-11.6	9.0	7.2195 µg/L	7.2195 ppb	05:21:03
3	B 249.677†	3902.6	296.3	4.3215 µg/L	4.3215 ppb	05:21:03
3	Ba 233.527†	21397.7	20983.1	84.318 µg/L	84.318 ppb	05:21:03
3	Be 313.107†	5244.9	6174.7	1.6438 µg/L	1.6438 ppb	05:20:43
3	Cd 226.502†	257.3	368.9	0.2794 µg/L	0.2794 ppb	05:21:03
3	Co 228.616†	968.4	1133.8	13.067 µg/L	13.067 ppb	05:21:03
3	Cr 267.716†	2243.6	2007.3	16.316 µg/L	16.316 ppb	05:21:03
3	Cu 324.752†	4861.3	1764.1	9.6105 µg/L	9.6105 ppb	05:20:43
3	Mn 257.610†	540886.8	526735.6	651.62 µg/L	651.62 ppb	05:20:43
3	Mo 202.031†	2.7	22.7	1.4612 µg/L	1.4612 ppb	05:21:03
3	Ni 231.604†	961.6	1013.4	11.669 µg/L	11.669 ppb	05:21:03
3	P 214.914†	536.0	540.2	103.94 µg/L	103.94 ppb	05:21:03
3	Pb 220.353†	374.3	278.3	16.180 µg/L	16.180 ppb	05:21:03
3	S 181.975 Axial†	399.5	284.2	211.05 µg/L	211.05 ppb	05:21:03
3	Sb 206.836†	63.2	-19.3	-2.7813 µg/L	-2.7813 ppb	05:21:03
3	Se 196.026†	-1.4	-16.6	0.572 µg/L	0.572 ppb	05:21:03
3	SiO2†	139913.4	134538.9	13150 µg/L	13150 ppb	05:20:43
3	Si 251.611†	429029.2	417156.1	6150.1 µg/L	6150.1 ppb	05:20:43
3	Sn 189.927†	26.1	26.5	3.5139 µg/L	3.5139 ppb	05:21:03
3	Ti 334.940†	606784.0	590222.4	551.43 µg/L	551.43 ppb	05:20:43
3	Tl 190.801†	-164.3	-43.4	1.9360 µg/L	1.9360 ppb	05:21:03
3	U 409.014†	-2454.4	-2121.4	-123.15 µg/L	-123.15 ppb	05:20:43
3	V 292.402†	3932.4	3427.5	14.163 µg/L	14.163 ppb	05:21:03
3	Zn 213.857†	16787.0	15790.8	86.953 µg/L	86.953 ppb	05:21:03

Mean Data: 1202056981|959150|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1754606.7	102.12 %	0.500			0.49%
Sc RADIAL	145070.2	99.4 %	0.19			0.19%
Y 371.029	1094388.5	106.59 %	0.491			0.46%
Ag 328.068†	29.5	-0.2173 µg/L	0.55287	-0.2173 ppb	0.55287	254.42%
Al 396.153Radial†	38697.5	7174.4 µg/L	118.56	7174.4 ppb	118.56	1.65%
As 188.979†	8.7	7.1017 µg/L	1.71431	7.1017 ppb	1.71431	24.14%
B 249.677†	320.4	4.6765 µg/L	0.32827	4.6765 ppb	0.32827	7.02%
Ba 233.527†	21050.7	84.591 µg/L	0.6348	84.591 ppb	0.6348	0.75%
Be 313.107†	6154.8	1.6386 µg/L	0.02414	1.6386 ppb	0.02414	1.47%
Ca 317.933Radial†	48995.2	2729.2 µg/L	46.59	2729.2 ppb	46.59	1.71%
Cd 226.502†	356.5	0.2039 µg/L	0.06596	0.2039 ppb	0.06596	32.34%
Co 228.616†	1147.6	13.238 µg/L	0.1687	13.238 ppb	0.1687	1.27%
Cr 267.716†	1997.2	16.236 µg/L	0.2100	16.236 ppb	0.2100	1.29%
Cu 324.752†	1711.5	9.4042 µg/L	0.35744	9.4042 ppb	0.35744	3.80%
Fe 238.204 Radial†	313000.5	19291 µg/L	22.6	19291 ppb	22.6	0.12%
K 766.490 Radial†	3273.6	1196.2 µg/L	32.85	1196.2 ppb	32.85	2.75%
Mg 279.077 IEC†	3661.6	1347.7 µg/L	23.92	1347.7 ppb	23.92	1.77%
Mn 257.610†	526104.8	650.84 µg/L	1.022	650.84 ppb	1.022	0.16%
Mo 202.031†	19.1	1.3551 µg/L	0.09467	1.3551 ppb	0.09467	6.99%
Na 589.592 Radial†	4202.8	573.08 µg/L	19.260	573.08 ppb	19.260	3.36%

Ni 231.604†	1015.0	11.687 µg/L	0.2161	11.687 ppb	0.2161	1.85%
P 214.914†	539.6	103.82 µg/L	2.501	103.82 ppb	2.501	2.41%
Pb 220.353†	259.4	15.122 µg/L	1.3704	15.122 ppb	1.3704	9.06%
S 181.975 Axial†	290.1	215.40 µg/L	3.954	215.40 ppb	3.954	1.84%
Sb 206.836†	-13.1	-2.0487 µg/L	1.48164	-2.0487 ppb	1.48164	72.32%
Se 196.026†	-14.1	1.48 µg/L	3.581	1.48 ppb	3.581	241.53%
SiO2†	134302.5	13127 µg/L	20.1	13127 ppb	20.1	0.15%
Si 251.611†	416173.8	6135.6 µg/L	13.51	6135.6 ppb	13.51	0.22%
Sn 189.927†	32.6	3.8880 µg/L	0.39063	3.8880 ppb	0.39063	10.05%
Sr 421.552†	8462.4	17.571 µg/L	0.3820	17.571 ppb	0.3820	2.17%
Ti 334.940†	589461.0	550.72 µg/L	0.635	550.72 ppb	0.635	0.12%
Tl 190.801†	-67.6	-1.0498 µg/L	2.83156	-1.0498 ppb	2.83156	269.71%
U 409.014†	-2109.7	-122.46 µg/L	8.886	-122.46 ppb	8.886	7.26%
Concentration less than lower limit for U 409.014.						
V 292.402†	3416.8	14.112 µg/L	0.0870	14.112 ppb	0.0870	0.62%
Zn 213.857†	15867.3	87.383 µg/L	0.6098	87.383 ppb	0.6098	0.70%

Sequence No.: 12

Sample ID: 248247002|959150|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 310

Date Collected: 4/1/2010 5:21:10

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248247002|959150|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	144630.2	144630.2	99.1 %		05:21:42
1	Al 396.153Radial†	132716.3	133972.0	24838 µg/L	24838 ppb	05:21:42
1	Ca 317.933Radial†	109896.3	110323.1	6145.4 µg/L	6145.4 ppb	05:21:42
1	Fe 238.204 Radial†	1303822.7	1315389.7	81073 µg/L	81073 ppb	05:21:40
1	K 766.490 Radial†	14042.5	12623.9	4614.5 µg/L	4614.5 ppb	05:21:42
1	Mg 279.077 IEC†	14582.8	14523.2	5341.9 µg/L	5341.9 ppb	05:21:42
1	Na 589.592 Radial†	10481.2	9284.6	1264.3 µg/L	1264.3 ppb	05:21:42
1	Sr 421.552†	25187.0	25548.5	53.066 µg/L	53.066 ppb	05:21:42
1	Sc 361.383	1725710.6	1725710.6	100.44 %		05:21:55
1	Y 371.029	1271128.7	1271128.7	123.81 %		05:21:55
1	Ag 328.068†	4150.0	40.6	-0.6307 µg/L	-0.6307 ppb	05:21:55
1	As 188.979†	37.4	57.6	36.827 µg/L	36.827 ppb	05:22:15
1	B 249.677†	4316.1	791.5	11.616 µg/L	11.616 ppb	05:21:55
1	Ba 233.527†	48495.4	48420.7	194.13 µg/L	194.13 ppb	05:21:55
1	Be 313.107†	28431.2	29372.4	7.8875 µg/L	7.8875 ppb	05:21:55
1	Cd 226.502†	1367.4	1479.7	0.7498 µg/L	0.7498 ppb	05:22:15
1	Co 228.616†	1139.8	1325.1	12.334 µg/L	12.334 ppb	05:22:15
1	Cr 267.716†	16003.2	15755.1	126.01 µg/L	126.01 ppb	05:22:15
1	Cu 324.752†	10678.3	7659.7	41.429 µg/L	41.429 ppb	05:21:55
1	Mn 257.610†	1454370.3	1447818.3	1791.0 µg/L	1791.0 ppb	05:21:55
1	Mo 202.031†	423.8	442.0	16.319 µg/L	16.319 ppb	05:22:15
1	Ni 231.604†	5919.0	5969.8	68.738 µg/L	68.738 ppb	05:22:15
1	P 214.914†	3235.8	3239.7	642.91 µg/L	642.91 ppb	05:22:15
1	Pb 220.353†	937.4	847.0	50.460 µg/L	50.460 ppb	05:22:15
1	S 181.975 Axial†	551.4	444.0	329.79 µg/L	329.79 ppb	05:22:15
1	Sb 206.836†	99.9	18.6	-0.5093 µg/L	-0.5093 ppb	05:22:15
1	Se 196.026†	-51.8	-66.8	3.62 µg/L	3.62 ppb	05:22:15
1	SiO2†	582456.2	578151.8	56509 µg/L	56509 ppb	05:21:55
1	Si 251.611†	1791703.8	1783087.8	26288 µg/L	26288 ppb	05:21:55
1	Sn 189.927†	159.1	159.6	20.023 µg/L	20.023 ppb	05:22:15
1	Ti 334.940†	3213093.6	3198190.0	2987.8 µg/L	2987.8 ppb	05:21:55
1	Tl 190.801†	-440.9	-322.3	-4.5354 µg/L	-4.5354 ppb	05:22:15
1	U 409.014†	-6527.3	-6229.1	-366.91 µg/L	-366.91 ppb	05:21:55
1	V 292.402†	14776.3	14308.4	58.896 µg/L	58.896 ppb	05:22:15
1	Zn 213.857†	81088.1	80171.6	443.30 µg/L	443.30 ppb	05:21:55
2	Sc RADIAL	143946.3	143946.3	98.6 %		05:21:46
2	Al 396.153Radial†	132569.9	134459.9	24928 µg/L	24928 ppb	05:21:46
2	Ca 317.933Radial†	109645.5	110595.8	6160.6 µg/L	6160.6 ppb	05:21:46
2	Fe 238.204 Radial†	1320756.2	1338807.0	82516 µg/L	82516 ppb	05:21:44
2	K 766.490 Radial†	14015.6	12664.0	4629.1 µg/L	4629.1 ppb	05:21:46
2	Mg 279.077 IEC†	14585.8	14596.0	5367.8 µg/L	5367.8 ppb	05:21:46
2	Na 589.592 Radial†	10454.3	9307.6	1267.4 µg/L	1267.4 ppb	05:21:46
2	Sr 421.552†	25243.5	25726.6	53.436 µg/L	53.436 ppb	05:21:46
2	Sc 361.383	1753147.1	1753147.1	102.03 %		05:22:18
2	Y 371.029	1290720.8	1290720.8	125.72 %		05:22:18
2	Ag 328.068†	4403.5	224.4	0.0141 µg/L	0.0141 ppb	05:22:18
2	As 188.979†	50.0	69.4	40.692 µg/L	40.692 ppb	05:22:38
2	B 249.677†	4200.7	611.1	8.9548 µg/L	8.9548 ppb	05:22:18
2	Ba 233.527†	49392.6	48544.4	194.61 µg/L	194.61 ppb	05:22:18
2	Be 313.107†	29224.0	29706.4	7.9748 µg/L	7.9748 ppb	05:22:18
2	Cd 226.502†	1349.4	1440.7	0.3542 µg/L	0.3542 ppb	05:22:38
2	Co 228.616†	1198.0	1364.4	12.744 µg/L	12.744 ppb	05:22:38
2	Cr 267.716†	16171.3	15670.5	125.40 µg/L	125.40 ppb	05:22:38
2	Cu 324.752†	10680.9	7495.9	40.993 µg/L	40.993 ppb	05:22:18
2	Mn 257.610†	1482240.3	1452471.1	1796.7 µg/L	1796.7 ppb	05:22:18
2	Mo 202.031†	424.7	436.3	16.209 µg/L	16.209 ppb	05:22:38
2	Ni 231.604†	5966.4	5924.1	68.211 µg/L	68.211 ppb	05:22:38
2	P 214.914†	3248.1	3201.3	633.75 µg/L	633.75 ppb	05:22:38
2	Pb 220.353†	954.9	849.5	50.576 µg/L	50.576 ppb	05:22:38

2	S 181.975 Axial†	556.7	440.6	327.25 µg/L	327.25 ppb	05:22:38
2	Sb 206.836†	82.2	-0.3	-2.7694 µg/L	-2.7694 ppb	05:22:38
2	Se 196.026†	-64.0	-78.0	0.073 µg/L	0.073 ppb	05:22:38
2	SiO2†	593888.6	580280.7	56717 µg/L	56717 ppb	05:22:18
2	Si 251.611†	1825871.0	1788656.0	26370 µg/L	26370 ppb	05:22:18
2	Sn 189.927†	155.2	153.3	19.650 µg/L	19.650 ppb	05:22:38
2	Ti 334.940†	3270333.8	3204223.5	2993.4 µg/L	2993.4 ppb	05:22:18
2	Tl 190.801†	-441.1	-315.7	-3.6620 µg/L	-3.6620 ppb	05:22:38
2	U 409.014†	-6842.4	-6436.2	-379.36 µg/L	-379.36 ppb	05:22:18
2	V 292.402†	14837.0	14137.6	57.893 µg/L	57.893 ppb	05:22:38
2	Zn 213.857†	82670.1	80458.6	444.77 µg/L	444.77 ppb	05:22:18
3	Sc RADIAL	145694.9	145694.9	99.8 %		05:21:50
3	Al 396.153Radial†	133828.9	134107.9	24863 µg/L	24863 ppb	05:21:50
3	Ca 317.933Radial†	110742.3	110360.2	6147.5 µg/L	6147.5 ppb	05:21:50
3	Fe 238.204 Radial†	1297194.1	1299137.1	80071 µg/L	80071 ppb	05:21:48
3	K 766.490 Radial†	14016.0	12493.8	4566.8 µg/L	4566.8 ppb	05:21:50
3	Mg 279.077 IEC†	14768.3	14601.4	5371.9 µg/L	5371.9 ppb	05:21:50
3	Na 589.592 Radial†	10423.0	9149.0	1245.8 µg/L	1245.8 ppb	05:21:50
3	Sr 421.552†	25459.7	25636.0	53.248 µg/L	53.248 ppb	05:21:50
3	Sc 361.383	1743843.6	1743843.6	101.49 %		05:22:40
3	Y 371.029	1283757.9	1283757.9	125.04 %		05:22:40
3	Ag 328.068†	3983.6	-166.3	-1.4065 µg/L	-1.4065 ppb	05:22:40
3	As 188.979†	41.3	61.1	37.645 µg/L	37.645 ppb	05:23:00
3	B 249.677†	4334.1	764.5	11.218 µg/L	11.218 ppb	05:22:40
3	Ba 233.527†	49329.7	48740.7	195.43 µg/L	195.43 ppb	05:22:40
3	Be 313.107†	29101.5	29738.5	7.9852 µg/L	7.9852 ppb	05:22:40
3	Cd 226.502†	1364.2	1462.4	0.7469 µg/L	0.7469 ppb	05:23:00
3	Co 228.616†	1174.3	1347.4	12.661 µg/L	12.661 ppb	05:23:00
3	Cr 267.716†	16120.1	15704.7	125.58 µg/L	125.58 ppb	05:23:00
3	Cu 324.752†	10761.8	7631.4	41.169 µg/L	41.169 ppb	05:22:40
3	Mn 257.610†	1473691.6	1451798.3	1795.9 µg/L	1795.9 ppb	05:22:40
3	Mo 202.031†	422.8	436.6	16.121 µg/L	16.121 ppb	05:23:00
3	Ni 231.604†	5968.4	5957.2	68.592 µg/L	68.592 ppb	05:23:00
3	P 214.914†	3257.6	3227.7	641.03 µg/L	641.03 ppb	05:23:00
3	Pb 220.353†	965.8	865.3	51.527 µg/L	51.527 ppb	05:23:00
3	S 181.975 Axial†	552.9	439.7	326.64 µg/L	326.64 ppb	05:23:00
3	Sb 206.836†	71.8	-10.1	-3.9052 µg/L	-3.9052 ppb	05:23:00
3	Se 196.026†	-61.7	-76.0	-0.060 µg/L	-0.060 ppb	05:23:00
3	SiO2†	590240.1	579791.1	56669 µg/L	56669 ppb	05:22:40
3	Si 251.611†	1816213.1	1788687.0	26370 µg/L	26370 ppb	05:22:40
3	Sn 189.927†	140.1	139.1	18.769 µg/L	18.769 ppb	05:23:00
3	Ti 334.940†	3252897.9	3204143.7	2993.4 µg/L	2993.4 ppb	05:22:40
3	Tl 190.801†	-431.0	-308.0	-2.7233 µg/L	-2.7233 ppb	05:23:00
3	U 409.014†	-6710.8	-6342.2	-373.30 µg/L	-373.30 ppb	05:22:40
3	V 292.402†	14819.2	14197.7	58.449 µg/L	58.449 ppb	05:23:00
3	Zn 213.857†	82117.2	80346.0	444.39 µg/L	444.39 ppb	05:22:40

Mean Data: 248247002|959150|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1740900.4	101.32 %	0.812			0.80%
Sc RADIAL	144757.1	99.2 %	0.60			0.61%
Y 371.029	1281869.1	124.85 %	0.967			0.77%
Ag 328.068†	32.9	-0.6744 µg/L	0.71129	-0.6744 ppb	0.71129	105.48%
Al 396.153Radial†	134179.9	24876 µg/L	46.7	24876 ppb	46.7	0.19%
As 188.979†	62.7	38.388 µg/L	2.0367	38.388 ppb	2.0367	5.31%
B 249.677†	722.4	10.596 µg/L	1.4353	10.596 ppb	1.4353	13.55%
Ba 233.527†	48568.6	194.72 µg/L	0.658	194.72 ppb	0.658	0.34%
Be 313.107†	29605.8	7.9491 µg/L	0.05364	7.9491 ppb	0.05364	0.67%
Ca 317.933Radial†	110426.4	6151.2 µg/L	8.24	6151.2 ppb	8.24	0.13%
Cd 226.502†	1460.9	0.6170 µg/L	0.22753	0.6170 ppb	0.22753	36.88%
Co 228.616†	1345.6	12.580 µg/L	0.2170	12.580 ppb	0.2170	1.73%
Cr 267.716†	15710.1	125.67 µg/L	0.311	125.67 ppb	0.311	0.25%
Cu 324.752†	7595.7	41.197 µg/L	0.2191	41.197 ppb	0.2191	0.53%
Fe 238.204 Radial†	1317777.9	81220 µg/L	1229.1	81220 ppb	1229.1	1.51%
K 766.490 Radial†	12593.9	4603.5 µg/L	32.57	4603.5 ppb	32.57	0.71%
Mg 279.077 IEC†	14573.5	5360.5 µg/L	16.27	5360.5 ppb	16.27	0.30%
Mn 257.610†	1450695.9	1794.5 µg/L	3.11	1794.5 ppb	3.11	0.17%
Mo 202.031†	438.3	16.216 µg/L	0.0993	16.216 ppb	0.0993	0.61%
Na 589.592 Radial†	9247.1	1259.2 µg/L	11.68	1259.2 ppb	11.68	0.93%

Ni 231.604†	5950.4	68.514 µg/L	0.2722	68.514 ppb	0.2722	0.40%
P 214.914†	3222.9	639.23 µg/L	4.837	639.23 ppb	4.837	0.76%
Pb 220.353†	853.9	50.854 µg/L	0.5853	50.854 ppb	0.5853	1.15%
S 181.975 Axial†	441.4	327.89 µg/L	1.667	327.89 ppb	1.667	0.51%
Sb 206.836†	2.8	-2.3946 µg/L	1.72871	-2.3946 ppb	1.72871	72.19%
Se 196.026†	-73.6	1.21 µg/L	2.087	1.21 ppb	2.087	172.38%
SiO2†	579407.9	56632 µg/L	109.0	56632 ppb	109.0	0.19%
Si 251.611†	1786810.3	26342 µg/L	47.5	26342 ppb	47.5	0.18%
Sn 189.927†	150.7	19.481 µg/L	0.6443	19.481 ppb	0.6443	3.31%
Sr 421.552†	25637.0	53.250 µg/L	0.1850	53.250 ppb	0.1850	0.35%
Ti 334.940†	3202185.7	2991.5 µg/L	3.23	2991.5 ppb	3.23	0.11%
Tl 190.801†	-315.3	-3.6402 µg/L	0.90626	-3.6402 ppb	0.90626	24.90%
U 409.014†	-6335.8	-373.19 µg/L	6.223	-373.19 ppb	6.223	1.67%
Concentration less than lower limit for U 409.014.						
V 292.402†	14214.5	58.413 µg/L	0.5027	58.413 ppb	0.5027	0.86%
Zn 213.857†	80325.4	444.15 µg/L	0.762	444.15 ppb	0.762	0.17%

Sequence No.: 13
 Sample ID: 248247003|959150|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 311
 Date Collected: 4/1/2010 5:23:08
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 248247003|959150|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Sample Conc. Units	Analysis Time
1	Sc RADIAL	144259.4	144259.4	98.9 %			05:23:40
1	Al 396.153Radial†	127640.9	129182.0	23950 µg/L		23950 ppb	05:23:40
1	Ca 317.933Radial†	91233.7	91729.5	5109.7 µg/L		5109.7 ppb	05:23:40
1	Fe 238.204 Radial†	1344947.1	1360371.6	83845 µg/L		83845 ppb	05:23:38
1	K 766.490 Radial†	14523.5	13146.9	4806.3 µg/L		4806.3 ppb	05:23:40
1	Mg 279.077 IEC†	11810.9	11756.9	4308.8 µg/L		4308.8 ppb	05:23:40
1	Na 589.592 Radial†	17306.8	16216.4	2211.1 µg/L		2211.1 ppb	05:23:40
1	Sr 421.552†	20872.5	21249.5	44.136 µg/L		44.136 ppb	05:23:40
1	Sc 361.383	1755606.7	1755606.7	102.18 %			05:24:07
1	Y 371.029	1414112.8	1414112.8	137.74 %			05:24:07
1	Ag 328.068†	3693.3	-476.7	-3.0771 µg/L		-3.0771 ppb	05:24:07
1	As 188.979†	-8.0	12.5	27.787 µg/L		27.787 ppb	05:24:27
1	B 249.677†	4267.2	670.4	9.7440 µg/L		9.7440 ppb	05:24:07
1	Ba 233.527†	60356.6	59207.0	237.55 µg/L		237.55 ppb	05:24:07
1	Be 313.107†	24742.7	25280.4	6.7578 µg/L		6.7578 ppb	05:24:07
1	Cd 226.502†	1304.1	1394.5	0.0190 µg/L		0.0190 ppb	05:24:27
1	Co 228.616†	3216.0	3337.8	37.140 µg/L		37.140 ppb	05:24:27
1	Cr 267.716†	71049.1	69357.4	545.72 µg/L		545.72 ppb	05:24:07
1	Cu 324.752†	8770.5	5611.5	33.818 µg/L		33.818 ppb	05:24:07
1	Mn 257.610†	2292739.2	2243673.5	2775.7 µg/L		2775.7 ppb	05:24:07
1	Mo 202.031†	351.6	364.2	14.116 µg/L		14.116 ppb	05:24:27
1	Ni 231.604†	23032.6	22618.6	260.44 µg/L		260.44 ppb	05:24:27
1	P 214.914†	2018.4	1993.4	374.33 µg/L		374.33 ppb	05:24:27
1	Pb 220.353†	718.8	617.1	37.080 µg/L		37.080 ppb	05:24:27
1	S 181.975 Axial†	380.0	266.9	198.25 µg/L		198.25 ppb	05:24:27
1	Sb 206.836†	144.9	61.0	-1.8756 µg/L		-1.8756 ppb	05:24:27
1	Se 196.026†	-53.3	-67.5	4.30 µg/L		4.30 ppb	05:24:27
1	SiO2†	549310.8	535836.8	52373 µg/L		52373 ppb	05:24:07
1	Si 251.611†	1690395.8	1653559.0	24378 µg/L		24378 ppb	05:24:07
1	Sn 189.927†	57.1	57.0	12.512 µg/L		12.512 ppb	05:24:27
1	Ti 334.940†	2906288.0	2843440.4	2656.3 µg/L		2656.3 ppb	05:24:07
1	Tl 190.801†	-447.3	-321.0	-5.4408 µg/L		-5.4408 ppb	05:24:27
1	U 409.014†	-7537.0	-7106.6	-414.12 µg/L		-414.12 ppb	05:24:07
1	V 292.402†	10968.9	10331.5	41.258 µg/L		41.258 ppb	05:24:27
1	Zn 213.857†	80557.0	78277.0	430.83 µg/L		430.83 ppb	05:24:07
2	Sc RADIAL	144065.9	144065.9	98.7 %			05:23:44
2	Al 396.153Radial†	127404.9	129116.3	23938 µg/L		23938 ppb	05:23:44
2	Ca 317.933Radial†	91373.0	91994.5	5124.5 µg/L		5124.5 ppb	05:23:44
2	Fe 238.204 Radial†	1332043.8	1349128.7	83152 µg/L		83152 ppb	05:23:42
2	K 766.490 Radial†	14381.1	13022.4	4760.7 µg/L		4760.7 ppb	05:23:44
2	Mg 279.077 IEC†	11900.5	11863.7	4349.2 µg/L		4349.2 ppb	05:23:44
2	Na 589.592 Radial†	17206.4	16138.2	2200.4 µg/L		2200.4 ppb	05:23:44
2	Sr 421.552†	20916.1	21322.0	44.287 µg/L		44.287 ppb	05:23:44
2	Sc 361.383	1734748.2	1734748.2	100.96 %			05:24:30
2	Y 371.029	1398812.9	1398812.9	136.25 %			05:24:30
2	Ag 328.068†	4125.3	-5.5	-1.3320 µg/L		-1.3320 ppb	05:24:30
2	As 188.979†	-3.0	17.4	29.121 µg/L		29.121 ppb	05:24:50
2	B 249.677†	4329.3	782.1	11.389 µg/L		11.389 ppb	05:24:30
2	Ba 233.527†	59634.5	59202.1	237.53 µg/L		237.53 ppb	05:24:30
2	Be 313.107†	24391.7	25223.9	6.7400 µg/L		6.7400 ppb	05:24:30
2	Cd 226.502†	1273.5	1379.6	0.0004 µg/L		0.0004 ppb	05:24:50
2	Co 228.616†	3235.7	3395.2	37.884 µg/L		37.884 ppb	05:24:50
2	Cr 267.716†	70255.8	69407.8	546.10 µg/L		546.10 ppb	05:24:30
2	Cu 324.752†	8740.1	5684.6	33.996 µg/L		33.996 ppb	05:24:30
2	Mn 257.610†	2262418.1	2240622.1	2771.9 µg/L		2771.9 ppb	05:24:30
2	Mo 202.031†	339.3	356.1	13.852 µg/L		13.852 ppb	05:24:50
2	Ni 231.604†	23050.4	22907.2	263.76 µg/L		263.76 ppb	05:24:50
2	P 214.914†	2025.7	2024.3	381.41 µg/L		381.41 ppb	05:24:50
2	Pb 220.353†	726.1	632.8	37.979 µg/L		37.979 ppb	05:24:50

2	S 181.975 Axial†	378.1	269.4	200.14 µg/L	200.14 ppb	05:24:50
2	Sb 206.836†	131.0	49.0	-3.3014 µg/L	-3.3014 ppb	05:24:50
2	Se 196.026†	-66.1	-80.8	-0.758 µg/L	-0.758 ppb	05:24:50
2	SiO2†	541317.5	534383.9	52231 µg/L	52231 ppb	05:24:30
2	Si 251.611†	1666533.5	1649816.4	24323 µg/L	24323 ppb	05:24:30
2	Sn 189.927†	51.8	52.4	12.225 µg/L	12.225 ppb	05:24:50
2	Ti 334.940†	2871536.0	2843220.4	2656.1 µg/L	2656.1 ppb	05:24:30
2	Tl 190.801†	-423.1	-302.4	-3.1595 µg/L	-3.1595 ppb	05:24:50
2	U 409.014†	-7584.7	-7242.6	-421.92 µg/L	-421.92 ppb	05:24:30
2	V 292.402†	10919.6	10411.8	41.717 µg/L	41.717 ppb	05:24:50
2	Zn 213.857†	79495.0	78173.0	430.29 µg/L	430.29 ppb	05:24:30
3	Sc RADIAL	144995.7	144995.7	99.4 %		05:23:48
3	Al 396.153Radial†	128705.3	129597.6	24027 µg/L	24027 ppb	05:23:48
3	Ca 317.933Radial†	92101.7	92134.5	5132.3 µg/L	5132.3 ppb	05:23:48
3	Fe 238.204 Radial†	1322241.2	1330610.8	82011 µg/L	82011 ppb	05:23:46
3	K 766.490 Radial†	14453.9	13002.2	4753.3 µg/L	4753.3 ppb	05:23:48
3	Mg 279.077 IEC†	11967.3	11853.6	4346.4 µg/L	4346.4 ppb	05:23:48
3	Na 589.592 Radial†	17335.8	16156.7	2203.0 µg/L	2203.0 ppb	05:23:48
3	Sr 421.552†	21250.4	21522.6	44.704 µg/L	44.704 ppb	05:23:48
3	Sc 361.383	1745400.5	1745400.5	101.58 %		05:24:53
3	Y 371.029	1407083.2	1407083.2	137.05 %		05:24:53
3	Ag 328.068†	4017.4	-136.6	-1.8159 µg/L	-1.8159 ppb	05:24:53
3	As 188.979†	1.2	21.5	30.088 µg/L	30.088 ppb	05:25:13
3	B 249.677†	4281.3	708.7	10.308 µg/L	10.308 ppb	05:24:53
3	Ba 233.527†	59948.9	59151.1	237.34 µg/L	237.34 ppb	05:24:53
3	Be 313.107†	24288.7	24975.2	6.6728 µg/L	6.6728 ppb	05:24:53
3	Cd 226.502†	1311.2	1408.9	0.3025 µg/L	0.3025 ppb	05:25:13
3	Co 228.616†	3231.1	3371.1	37.645 µg/L	37.645 ppb	05:25:13
3	Cr 267.716†	70600.5	69322.4	545.39 µg/L	545.39 ppb	05:24:53
3	Cu 324.752†	8783.6	5674.6	33.792 µg/L	33.792 ppb	05:24:53
3	Mn 257.610†	2279172.4	2243439.3	2775.4 µg/L	2775.4 ppb	05:24:53
3	Mo 202.031†	348.7	363.3	14.018 µg/L	14.018 ppb	05:25:13
3	Ni 231.604†	22981.2	22699.8	261.37 µg/L	261.37 ppb	05:25:13
3	P 214.914†	2029.2	2015.5	380.32 µg/L	380.32 ppb	05:25:13
3	Pb 220.353†	725.3	627.6	37.738 µg/L	37.738 ppb	05:25:13
3	S 181.975 Axial†	369.0	258.2	191.81 µg/L	191.81 ppb	05:25:13
3	Sb 206.836†	136.3	53.4	-2.7501 µg/L	-2.7501 ppb	05:25:13
3	Se 196.026†	-58.7	-73.1	1.63 µg/L	1.63 ppb	05:25:13
3	SiO2†	545768.2	535493.1	52340 µg/L	52340 ppb	05:24:53
3	Si 251.611†	1679390.8	1652399.4	24361 µg/L	24361 ppb	05:24:53
3	Sn 189.927†	55.0	55.2	12.411 µg/L	12.411 ppb	05:25:13
3	Ti 334.940†	2892565.2	2846563.8	2659.2 µg/L	2659.2 ppb	05:24:53
3	Tl 190.801†	-441.8	-318.3	-5.0742 µg/L	-5.0742 ppb	05:25:13
3	U 409.014†	-7600.0	-7211.7	-419.86 µg/L	-419.86 ppb	05:24:53
3	V 292.402†	10870.9	10297.8	41.279 µg/L	41.279 ppb	05:25:13
3	Zn 213.857†	79977.0	78167.0	430.40 µg/L	430.40 ppb	05:24:53

Mean Data: 248247003|959150|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1745251.8	101.57 %	0.607			0.60%
Sc RADIAL	144440.4	99.0 %	0.34			0.34%
Y 371.029	1406669.6	137.01 %	0.746			0.54%
Ag 328.068†	-206.2	-2.0750 µg/L	0.90096	-2.0750 ppb	0.90096	43.42%
Al 396.153Radial†	129298.7	23971 µg/L	48.4	23971 ppb	48.4	0.20%
As 188.979†	17.1	28.999 µg/L	1.1551	28.999 ppb	1.1551	3.98%
B 249.677†	720.4	10.480 µg/L	0.8362	10.480 ppb	0.8362	7.98%
Ba 233.527†	59186.7	237.47 µg/L	0.114	237.47 ppb	0.114	0.05%
Be 313.107†	25159.8	6.7235 µg/L	0.04482	6.7235 ppb	0.04482	0.67%
Ca 317.933Radial†	91952.8	5122.1 µg/L	11.46	5122.1 ppb	11.46	0.22%
Cd 226.502†	1394.3	0.1073 µg/L	0.16932	0.1073 ppb	0.16932	157.81%
Co 228.616†	3368.0	37.556 µg/L	0.3799	37.556 ppb	0.3799	1.01%
Cr 267.716†	69362.5	545.74 µg/L	0.356	545.74 ppb	0.356	0.07%
Cu 324.752†	5656.9	33.868 µg/L	0.1110	33.868 ppb	0.1110	0.33%
Fe 238.204 Radial†	1346703.7	83003 µg/L	926.2	83003 ppb	926.2	1.12%
K 766.490 Radial†	13057.1	4773.4 µg/L	28.69	4773.4 ppb	28.69	0.60%
Mg 279.077 IEC†	11824.8	4334.8 µg/L	22.56	4334.8 ppb	22.56	0.52%
Mn 257.610†	2242578.3	2774.3 µg/L	2.10	2774.3 ppb	2.10	0.08%
Mo 202.031†	361.2	13.995 µg/L	0.1334	13.995 ppb	0.1334	0.95%
Na 589.592 Radial†	16170.4	2204.8 µg/L	5.56	2204.8 ppb	5.56	0.25%

Ni 231.604†	22741.9	261.86 µg/L	1.714	261.86 ppb	1.714	0.65%
P 214.914†	2011.1	378.68 µg/L	3.814	378.68 ppb	3.814	1.01%
Pb 220.353†	625.8	37.599 µg/L	0.4650	37.599 ppb	0.4650	1.24%
S 181.975 Axial†	264.8	196.74 µg/L	4.368	196.74 ppb	4.368	2.22%
Sb 206.836†	54.4	-2.6424 µg/L	0.71898	-2.6424 ppb	0.71898	27.21%
Se 196.026†	-73.8	1.72 µg/L	2.530	1.72 ppb	2.530	146.68%
SiO2†	535237.9	52315 µg/L	74.2	52315 ppb	74.2	0.14%
Si 251.611†	1651924.9	24354 µg/L	28.2	24354 ppb	28.2	0.12%
Sn 189.927†	54.9	12.383 µg/L	0.1453	12.383 ppb	0.1453	1.17%
Sr 421.552†	21364.7	44.376 µg/L	0.2940	44.376 ppb	0.2940	0.66%
Ti 334.940†	2844408.2	2657.2 µg/L	1.75	2657.2 ppb	1.75	0.07%
Tl 190.801†	-313.9	-4.5582 µg/L	1.22505	-4.5582 ppb	1.22505	26.88%
U 409.014†	-7186.9	-418.64 µg/L	4.040	-418.64 ppb	4.040	0.97%
Concentration less than lower limit for U 409.014.						
V 292.402†	10347.0	41.418 µg/L	0.2591	41.418 ppb	0.2591	0.63%
Zn 213.857†	78205.7	430.51 µg/L	0.282	430.51 ppb	0.282	0.07%

Sequence No.: 14

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 5:25:20

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	142109.2	142109.2	97.4 %		05:25:54
1	Al 396.153Radial†	25776.4	26532.6	4897.2 µg/L	4897.2 ppb	05:25:54
1	Ca 317.933Radial†	84821.4	86541.3	4820.7 µg/L	4820.7 ppb	05:25:54
1	Fe 238.204 Radial†	76100.5	77998.3	4807.3 µg/L	4807.3 ppb	05:25:54
1	K 766.490 Radial†	14457.5	13301.4	4865.9 µg/L	4865.9 ppb	05:25:54
1	Mg 279.077 IEC†	12927.9	13084.8	4882.6 µg/L	4882.6 ppb	05:25:54
1	Na 589.592 Radial†	70953.9	71570.7	9773.1 µg/L	9773.1 ppb	05:25:54
1	Sr 421.552†	225114.8	231302.2	480.83 µg/L	480.83 ppb	05:25:52
1	Sc 361.383	1720021.0	1720021.0	100.10 %		05:26:07
1	Y 371.029	1014640.3	1014640.3	98.826 %		05:26:07
1	Ag 328.068†	131353.4	127124.2	476.69 µg/L	476.69 ppb	05:26:07
1	As 188.979†	1548.2	1566.9	480.79 µg/L	480.79 ppb	05:26:27
1	B 249.677†	35677.1	32133.8	472.25 µg/L	472.25 ppb	05:26:07
1	Ba 233.527†	118456.3	118468.0	477.78 µg/L	477.78 ppb	05:26:07
1	Be 313.107†	1773301.1	1772506.5	482.75 µg/L	482.75 ppb	05:26:07
1	Cd 226.502†	76144.4	76182.7	475.57 µg/L	475.57 ppb	05:26:07
1	Co 228.616†	38814.2	38963.8	481.01 µg/L	481.01 ppb	05:26:07
1	Cr 267.716†	60767.8	60525.5	473.92 µg/L	473.92 ppb	05:26:07
1	Cu 324.752†	125732.9	122628.8	478.03 µg/L	478.03 ppb	05:26:07
1	Mn 257.610†	389049.0	388403.8	480.37 µg/L	480.37 ppb	05:26:07
1	Mo 202.031†	16074.3	16077.5	472.94 µg/L	472.94 ppb	05:26:27
1	Ni 231.604†	41434.5	41467.6	477.47 µg/L	477.47 ppb	05:26:07
1	P 214.914†	11070.6	11076.9	2360.9 µg/L	2360.9 ppb	05:26:27
1	Pb 220.353†	8624.5	8529.0	477.63 µg/L	477.63 ppb	05:26:27
1	S 181.975 Axial†	1382.5	1276.0	951.51 µg/L	951.51 ppb	05:26:27
1	Sb 206.836†	4042.7	3957.6	471.52 µg/L	471.52 ppb	05:26:27
1	Se 196.026†	1318.0	1301.4	473 µg/L	473 ppb	05:26:27
1	SiO2†	54725.0	52892.3	5149.5 µg/L	5149.5 ppb	05:26:07
1	Si 251.611†	165361.4	164351.5	2413.6 µg/L	2413.6 ppb	05:26:07
1	Sn 189.927†	7550.2	7543.4	471.86 µg/L	471.86 ppb	05:26:27
1	Ti 334.940†	512626.4	511136.4	476.93 µg/L	476.93 ppb	05:26:07
1	Tl 190.801†	3775.0	3887.7	484.84 µg/L	484.84 ppb	05:26:27
1	U 409.014†	7058.9	7321.4	457.10 µg/L	457.10 ppb	05:26:07
1	V 292.402†	97846.4	97340.0	481.12 µg/L	481.12 ppb	05:26:07
1	Zn 213.857†	85664.4	85010.2	473.79 µg/L	473.79 ppb	05:26:07
2	Sc RADIAL	141199.5	141199.5	96.8 %		05:25:58
2	Al 396.153Radial†	25565.2	26484.9	4888.2 µg/L	4888.2 ppb	05:25:58
2	Ca 317.933Radial†	84361.1	86626.7	4825.4 µg/L	4825.4 ppb	05:25:58
2	Fe 238.204 Radial†	75494.7	77875.7	4799.8 µg/L	4799.8 ppb	05:25:58
2	K 766.490 Radial†	14378.9	13315.8	4871.1 µg/L	4871.1 ppb	05:25:58
2	Mg 279.077 IEC†	12864.9	13105.1	4890.3 µg/L	4890.3 ppb	05:25:58
2	Na 589.592 Radial†	70502.5	71573.6	9773.5 µg/L	9773.5 ppb	05:25:58
2	Sr 421.552†	225485.6	233174.7	484.72 µg/L	484.72 ppb	05:25:56
2	Sc 361.383	1714706.6	1714706.6	99.796 %		05:26:30
2	Y 371.029	1012156.1	1012156.1	98.585 %		05:26:30
2	Ag 328.068†	130751.1	126927.5	475.95 µg/L	475.95 ppb	05:26:30
2	As 188.979†	1581.6	1605.2	492.35 µg/L	492.35 ppb	05:26:50
2	B 249.677†	35530.5	32097.4	471.72 µg/L	471.72 ppb	05:26:30
2	Ba 233.527†	118013.0	118390.5	477.47 µg/L	477.47 ppb	05:26:30
2	Be 313.107†	1765713.5	1770393.6	482.18 µg/L	482.18 ppb	05:26:30
2	Cd 226.502†	75961.6	76235.3	475.89 µg/L	475.89 ppb	05:26:30
2	Co 228.616†	38581.1	38850.4	479.61 µg/L	479.61 ppb	05:26:30
2	Cr 267.716†	60576.5	60522.0	473.88 µg/L	473.88 ppb	05:26:30
2	Cu 324.752†	125190.1	122474.3	477.44 µg/L	477.44 ppb	05:26:30
2	Mn 257.610†	388016.0	388573.2	480.57 µg/L	480.57 ppb	05:26:30
2	Mo 202.031†	16143.1	16196.2	476.42 µg/L	476.42 ppb	05:26:50
2	Ni 231.604†	41114.6	41275.3	475.25 µg/L	475.25 ppb	05:26:30
2	P 214.914†	11143.5	11184.3	2383.9 µg/L	2383.9 ppb	05:26:50
2	Pb 220.353†	8667.0	8598.3	481.49 µg/L	481.49 ppb	05:26:50

2	S 181.975 Axial†	1406.7	1304.5	972.73 µg/L	972.73 ppb	05:26:50
2	Sb 206.836†	4072.2	3999.7	476.57 µg/L	476.57 ppb	05:26:50
2	Se 196.026†	1332.7	1320.2	479 µg/L	479 ppb	05:26:50
2	SiO2†	54308.5	52644.4	5125.1 µg/L	5125.1 ppb	05:26:30
2	Si 251.611†	164475.8	163976.0	2408.0 µg/L	2408.0 ppb	05:26:30
2	Sn 189.927†	7621.3	7638.0	477.75 µg/L	477.75 ppb	05:26:50
2	Ti 334.940†	510463.7	510556.4	476.39 µg/L	476.39 ppb	05:26:30
2	Tl 190.801†	3772.9	3897.3	486.00 µg/L	486.00 ppb	05:26:50
2	U 409.014†	7234.6	7519.3	468.54 µg/L	468.54 ppb	05:26:30
2	V 292.402†	97054.2	96849.2	478.77 µg/L	478.77 ppb	05:26:30
2	Zn 213.857†	85259.7	84869.8	473.02 µg/L	473.02 ppb	05:26:30
3	Sc RADIAL	140766.0	140766.0	96.5 %		05:26:03
3	Al 396.153Radial†	25588.2	26590.1	4907.9 µg/L	4907.9 ppb	05:26:03
3	Ca 317.933Radial†	83962.6	86482.1	4817.4 µg/L	4817.4 ppb	05:26:03
3	Fe 238.204 Radial†	75418.7	78037.2	4809.7 µg/L	4809.7 ppb	05:26:03
3	K 766.490 Radial†	14639.8	13632.1	4986.9 µg/L	4986.9 ppb	05:26:03
3	Mg 279.077 IEC†	12762.5	13040.0	4865.9 µg/L	4865.9 ppb	05:26:03
3	Na 589.592 Radial†	70478.6	71773.2	9800.7 µg/L	9800.7 ppb	05:26:03
3	Sr 421.552†	226456.8	234899.3	488.30 µg/L	488.30 ppb	05:26:01
3	Sc 361.383	1728398.3	1728398.3	100.59 %		05:26:54
3	Y 371.029	1020054.8	1020054.8	99.354 %		05:26:54
3	Ag 328.068†	131808.1	126940.3	475.98 µg/L	475.98 ppb	05:26:54
3	As 188.979†	1576.6	1587.7	487.06 µg/L	487.06 ppb	05:27:14
3	B 249.677†	35623.6	31907.9	468.93 µg/L	468.93 ppb	05:26:54
3	Ba 233.527†	118888.6	118324.1	477.20 µg/L	477.20 ppb	05:26:54
3	Be 313.107†	1775775.0	1766380.0	481.08 µg/L	481.08 ppb	05:26:54
3	Cd 226.502†	76473.6	76141.3	475.31 µg/L	475.31 ppb	05:26:54
3	Co 228.616†	38807.3	38769.0	478.60 µg/L	478.60 ppb	05:26:54
3	Cr 267.716†	60978.6	60440.9	473.26 µg/L	473.26 ppb	05:26:54
3	Cu 324.752†	125716.1	122003.4	475.59 µg/L	475.59 ppb	05:26:54
3	Mn 257.610†	390074.1	387539.2	479.30 µg/L	479.30 ppb	05:26:54
3	Mo 202.031†	16123.4	16048.6	472.08 µg/L	472.08 ppb	05:27:14
3	Ni 231.604†	41447.0	41279.4	475.30 µg/L	475.30 ppb	05:26:54
3	P 214.914†	11104.3	11056.9	2356.7 µg/L	2356.7 ppb	05:27:14
3	Pb 220.353†	8630.8	8493.6	475.65 µg/L	475.65 ppb	05:27:14
3	S 181.975 Axial†	1393.5	1280.2	954.65 µg/L	954.65 ppb	05:27:14
3	Sb 206.836†	4077.0	3972.1	473.24 µg/L	473.24 ppb	05:27:14
3	Se 196.026†	1316.6	1293.6	470 µg/L	470 ppb	05:27:14
3	SiO2†	54892.1	52793.4	5139.9 µg/L	5139.9 ppb	05:26:54
3	Si 251.611†	165940.5	164126.5	2410.3 µg/L	2410.3 ppb	05:26:54
3	Sn 189.927†	7579.1	7535.6	471.37 µg/L	471.37 ppb	05:27:14
3	Ti 334.940†	513415.9	509439.2	475.35 µg/L	475.35 ppb	05:26:54
3	Tl 190.801†	3764.6	3859.1	481.31 µg/L	481.31 ppb	05:27:14
3	U 409.014†	7012.8	7241.4	452.32 µg/L	452.32 ppb	05:26:54
3	V 292.402†	97958.8	96978.0	479.34 µg/L	479.34 ppb	05:26:54
3	Zn 213.857†	85992.9	84922.0	473.31 µg/L	473.31 ppb	05:26:54

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1721042.0	100.16 %	0.402			0.40%
Sc RADIAL	141358.2	96.9 %	0.47			0.48%
Y 371.029	1015617.1	98.922 %	0.3934			0.40%
Ag 328.068†	126997.3	476.21 µg/L	0.419	476.21 ppb	0.419	0.09%
QC value within limits for Ag 328.068 Recovery = 95.24%						
Al 396.153Radial†	26535.9	4897.7 µg/L	9.87	4897.7 ppb	9.87	0.20%
QC value within limits for Al 396.153Radial Recovery = 97.95%						
As 188.979†	1586.6	486.74 µg/L	5.788	486.74 ppb	5.788	1.19%
QC value within limits for As 188.979 Recovery = 97.35%						
B 249.677†	32046.4	470.96 µg/L	1.785	470.96 ppb	1.785	0.38%
QC value within limits for B 249.677 Recovery = 94.19%						
Ba 233.527†	118394.2	477.48 µg/L	0.291	477.48 ppb	0.291	0.06%
QC value within limits for Ba 233.527 Recovery = 95.50%						
Be 313.107†	1769760.0	482.00 µg/L	0.848	482.00 ppb	0.848	0.18%
QC value within limits for Be 313.107 Recovery = 96.40%						
Ca 317.933Radial†	86550.0	4821.2 µg/L	4.05	4821.2 ppb	4.05	0.08%
QC value within limits for Ca 317.933Radial Recovery = 96.42%						
Cd 226.502†	76186.5	475.59 µg/L	0.295	475.59 ppb	0.295	0.06%
QC value within limits for Cd 226.502 Recovery = 95.12%						
Co 228.616†	38861.1	479.74 µg/L	1.208	479.74 ppb	1.208	0.25%

QC value within limits for Co 228.616	Recovery = 95.95%			
Cr 267.716†	60496.1	473.68 µg/L	0.370	473.68 ppb
QC value within limits for Cr 267.716	Recovery = 94.74%			
Cu 324.752†	122368.8	477.02 µg/L	1.270	477.02 ppb
QC value within limits for Cu 324.752	Recovery = 95.40%			
Fe 238.204 Radial†	77970.4	4805.6 µg/L	5.20	4805.6 ppb
QC value within limits for Fe 238.204 Radial	Recovery = 96.11%			
K 766.490 Radial†	13416.5	4908.0 µg/L	68.42	4908.0 ppb
QC value within limits for K 766.490 Radial	Recovery = 98.16%			
Mg 279.077 IEC†	13076.6	4879.6 µg/L	12.46	4879.6 ppb
QC value within limits for Mg 279.077 IEC	Recovery = 97.59%			
Mn 257.610†	388172.1	480.08 µg/L	0.686	480.08 ppb
QC value within limits for Mn 257.610	Recovery = 96.02%			
Mo 202.031†	16107.4	473.81 µg/L	2.300	473.81 ppb
QC value within limits for Mo 202.031	Recovery = 94.76%			
Na 589.592 Radial†	71639.1	9782.4 µg/L	15.80	9782.4 ppb
QC value within limits for Na 589.592 Radial	Recovery = 97.82%			
Ni 231.604†	41340.7	476.01 µg/L	1.265	476.01 ppb
QC value within limits for Ni 231.604	Recovery = 95.20%			
P 214.914†	11106.0	2367.2 µg/L	14.66	2367.2 ppb
QC value within limits for P 214.914	Recovery = 94.69%			
Pb 220.353†	8540.3	478.26 µg/L	2.974	478.26 ppb
QC value within limits for Pb 220.353	Recovery = 95.65%			
S 181.975 Axial†	1286.9	959.63 µg/L	11.455	959.63 ppb
QC value within limits for S 181.975 Axial	Recovery = 95.96%			
Sb 206.836†	3976.5	473.78 µg/L	2.571	473.78 ppb
QC value within limits for Sb 206.836	Recovery = 94.76%			
Se 196.026†	1305.0	474 µg/L	5.0	474 ppb
QC value within limits for Se 196.026	Recovery = 94.78%			
SiO2†	52776.7	5138.2 µg/L	12.30	5138.2 ppb
QC value within limits for SiO2	Recovery = 96.09%			
Si 251.611†	164151.3	2410.6 µg/L	2.83	2410.6 ppb
QC value within limits for Si 251.611	Recovery = 96.43%			
Sn 189.927†	7572.3	473.66 µg/L	3.553	473.66 ppb
QC value within limits for Sn 189.927	Recovery = 94.73%			
Sr 421.552†	233125.4	484.62 µg/L	3.740	484.62 ppb
QC value within limits for Sr 421.552	Recovery = 96.92%			
Ti 334.940†	510377.3	476.22 µg/L	0.804	476.22 ppb
QC value within limits for Ti 334.940	Recovery = 95.24%			
Tl 190.801†	3881.4	484.05 µg/L	2.444	484.05 ppb
QC value within limits for Tl 190.801	Recovery = 96.81%			
U 409.014†	7360.7	459.32 µg/L	8.335	459.32 ppb
QC value within limits for U 409.014	Recovery = 91.86%			
V 292.402†	97055.7	479.74 µg/L	1.225	479.74 ppb
QC value within limits for V 292.402	Recovery = 95.95%			
Zn 213.857†	84934.0	473.37 µg/L	0.390	473.37 ppb
QC value within limits for Zn 213.857	Recovery = 94.67%			

All analyte(s) passed QC.

Sequence No.: 15

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 5:27:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	145094.0	145094.0	99.4 %		05:27:51
1	Al 396.153Radial†	-59.9	3.0	0.5652 µg/L	0.5652 ppb	05:28:11
1	Ca 317.933Radial†	628.5	71.6	3.9876 µg/L	3.9876 ppb	05:28:11
1	Fe 238.204 Radial†	231.1	84.3	5.1988 µg/L	5.1988 ppb	05:28:11
1	K 766.490 Radial†	1820.3	286.0	104.68 µg/L	104.68 ppb	05:27:51
1	Mg 279.077 IEC†	165.9	-23.8	-8.8786 µg/L	-8.8786 ppb	05:28:11
1	Na 589.592 Radial†	2325.2	1047.8	143.05 µg/L	143.05 ppb	05:27:51
1	Sr 421.552†	-266.7	-132.9	-0.2764 µg/L	-0.2764 ppb	05:27:51
1	Sc 361.383	1722926.7	1722926.7	100.27 %		05:29:12
1	Y 371.029	1027333.0	1027333.0	100.06 %		05:29:12
1	Ag 328.068†	4191.9	89.0	0.3300 µg/L	0.3300 ppb	05:29:14
1	As 188.979†	-14.3	6.1	1.8420 µg/L	1.8420 ppb	05:29:35
1	B 249.677†	3542.8	27.2	0.3995 µg/L	0.3995 ppb	05:29:14
1	Ba 233.527†	-162.8	-26.5	-0.1069 µg/L	-0.1069 ppb	05:29:35
1	Be 313.107†	-852.4	214.6	0.0591 µg/L	0.0591 ppb	05:29:14
1	Cd 226.502†	-86.1	32.3	0.2010 µg/L	0.2010 ppb	05:29:35
1	Co 228.616†	-156.4	34.4	0.4236 µg/L	0.4236 ppb	05:29:35
1	Cr 267.716†	203.5	24.4	0.1896 µg/L	0.1896 ppb	05:29:35
1	Cu 324.752†	2961.9	-18.5	-0.0692 µg/L	-0.0692 ppb	05:29:14
1	Mn 257.610†	392.9	154.6	0.1916 µg/L	0.1916 ppb	05:29:35
1	Mo 202.031†	-28.3	-8.1	-0.2386 µg/L	-0.2386 ppb	05:29:35
1	Ni 231.604†	-88.9	-12.2	-0.1403 µg/L	-0.1403 ppb	05:29:35
1	P 214.914†	-15.1	2.9	0.6266 µg/L	0.6266 ppb	05:29:35
1	Pb 220.353†	85.7	-0.9	-0.0513 µg/L	-0.0513 ppb	05:29:35
1	S 181.975 Axial†	131.0	25.6	19.013 µg/L	19.013 ppb	05:29:35
1	Sb 206.836†	80.9	-0.1	-0.0219 µg/L	-0.0219 ppb	05:29:35
1	Se 196.026†	19.7	4.3	1.57 µg/L	1.57 ppb	05:29:35
1	SiO2†	1905.1	124.5	12.167 µg/L	12.167 ppb	05:29:35
1	Si 251.611†	1275.1	435.1	6.4120 µg/L	6.4120 ppb	05:29:14
1	Sn 189.927†	11.4	12.5	0.7792 µg/L	0.7792 ppb	05:29:35
1	Ti 334.940†	919.0	-36.1	-0.0338 µg/L	-0.0338 ppb	05:29:14
1	Tl 190.801†	-127.5	-10.5	-1.2909 µg/L	-1.2909 ppb	05:29:35
1	U 409.014†	-235.2	35.4	2.0582 µg/L	2.0582 ppb	05:29:14
1	V 292.402†	370.1	-34.7	-0.1702 µg/L	-0.1702 ppb	05:29:14
1	Zn 213.857†	634.8	68.7	0.3862 µg/L	0.3862 ppb	05:29:35
2	Sc RADIAL	144080.7	144080.7	98.7 %		05:28:13
2	Al 396.153Radial†	-53.3	9.2	1.7250 µg/L	1.7250 ppb	05:28:33
2	Ca 317.933Radial†	591.5	38.5	2.1464 µg/L	2.1464 ppb	05:28:33
2	Fe 238.204 Radial†	210.0	64.6	3.9798 µg/L	3.9798 ppb	05:28:33
2	K 766.490 Radial†	1746.6	224.2	82.066 µg/L	82.066 ppb	05:28:13
2	Mg 279.077 IEC†	193.0	4.8	1.7636 µg/L	1.7636 ppb	05:28:33
2	Na 589.592 Radial†	2300.1	1038.8	141.84 µg/L	141.84 ppb	05:28:13
2	Sr 421.552†	-165.2	-32.0	-0.0666 µg/L	-0.0666 ppb	05:28:13
2	Sc 361.383	1740859.5	1740859.5	101.32 %		05:29:37
2	Y 371.029	1036711.8	1036711.8	100.98 %		05:29:37
2	Ag 328.068†	4348.9	200.9	0.7572 µg/L	0.7572 ppb	05:29:39
2	As 188.979†	-20.1	0.5	0.1512 µg/L	0.1512 ppb	05:29:59
2	B 249.677†	3481.8	-69.4	-1.0237 µg/L	-1.0237 ppb	05:29:39
2	Ba 233.527†	-139.2	-1.6	-0.0061 µg/L	-0.0061 ppb	05:29:59
2	Be 313.107†	-922.0	154.7	0.0434 µg/L	0.0434 ppb	05:29:39
2	Cd 226.502†	-72.0	47.2	0.2941 µg/L	0.2941 ppb	05:29:59
2	Co 228.616†	-175.5	17.1	0.2107 µg/L	0.2107 ppb	05:29:59
2	Cr 267.716†	196.7	15.6	0.1188 µg/L	0.1188 ppb	05:29:59
2	Cu 324.752†	2833.0	-176.1	-0.6798 µg/L	-0.6798 ppb	05:29:39
2	Mn 257.610†	379.8	137.6	0.1701 µg/L	0.1701 ppb	05:29:59
2	Mo 202.031†	-32.1	-11.6	-0.3419 µg/L	-0.3419 ppb	05:29:59
2	Ni 231.604†	-73.2	4.3	0.0493 µg/L	0.0493 ppb	05:29:59
2	P 214.914†	-25.7	-7.4	-1.5832 µg/L	-1.5832 ppb	05:29:59
2	Pb 220.353†	91.3	3.7	0.2019 µg/L	0.2019 ppb	05:29:59

2	S 181.975 Axial†	123.5	16.9	12.513 µg/L	12.513 ppb	05:29:59
2	Sb 206.836†	64.2	-17.5	-2.0852 µg/L	-2.0852 ppb	05:29:59
2	Se 196.026†	10.7	-4.7	-1.68 µg/L	-1.68 ppb	05:29:59
2	SiO2†	1876.6	76.9	7.5240 µg/L	7.5240 ppb	05:29:59
2	Si 251.611†	1432.5	577.3	8.5170 µg/L	8.5170 ppb	05:29:39
2	Sn 189.927†	-4.1	-2.9	-0.1802 µg/L	-0.1802 ppb	05:29:59
2	Ti 334.940†	871.5	-92.4	-0.0882 µg/L	-0.0882 ppb	05:29:39
2	Tl 190.801†	-105.4	12.6	1.5543 µg/L	1.5543 ppb	05:29:59
2	U 409.014†	-197.5	74.9	4.4195 µg/L	4.4195 ppb	05:29:39
2	V 292.402†	546.5	135.6	0.6611 µg/L	0.6611 ppb	05:29:39
2	Zn 213.857†	610.3	38.0	0.2130 µg/L	0.2130 ppb	05:29:59
3	Sc RADIAL	142537.5	142537.5	97.7 %		05:28:35
3	Al 396.153Radial†	-60.6	1.2	0.2221 µg/L	0.2221 ppb	05:28:55
3	Ca 317.933Radial†	625.4	79.7	4.4403 µg/L	4.4403 ppb	05:28:55
3	Fe 238.204 Radial†	216.0	73.0	4.4993 µg/L	4.4993 ppb	05:28:55
3	K 766.490 Radial†	1767.0	264.3	96.750 µg/L	96.750 ppb	05:28:35
3	Mg 279.077 IEC†	187.3	1.1	0.4011 µg/L	0.4011 ppb	05:28:55
3	Na 589.592 Radial†	2058.1	816.3	111.43 µg/L	111.43 ppb	05:28:35
3	Sr 421.552†	-153.3	-21.6	-0.0450 µg/L	-0.0450 ppb	05:28:35
3	Sc 361.383	1734315.4	1734315.4	100.94 %		05:30:01
3	Y 371.029	1034008.1	1034008.1	100.71 %		05:30:01
3	Ag 328.068†	3960.1	-168.1	-0.6218 µg/L	-0.6218 ppb	05:30:03
3	As 188.979†	-1.8	18.5	5.6093 µg/L	5.6093 ppb	05:30:23
3	B 249.677†	3485.6	-52.6	-0.7772 µg/L	-0.7772 ppb	05:30:03
3	Ba 233.527†	-157.6	-20.3	-0.0820 µg/L	-0.0820 ppb	05:30:23
3	Be 313.107†	-656.4	414.4	0.1129 µg/L	0.1129 ppb	05:30:03
3	Cd 226.502†	-113.8	5.5	0.0337 µg/L	0.0337 ppb	05:30:23
3	Co 228.616†	-169.5	22.4	0.2758 µg/L	0.2758 ppb	05:30:23
3	Cr 267.716†	226.0	45.3	0.3548 µg/L	0.3548 ppb	05:30:23
3	Cu 324.752†	2923.9	-75.5	-0.2921 µg/L	-0.2921 ppb	05:30:03
3	Mn 257.610†	366.0	125.3	0.1550 µg/L	0.1550 ppb	05:30:23
3	Mo 202.031†	-25.2	-4.9	-0.1429 µg/L	-0.1429 ppb	05:30:23
3	Ni 231.604†	-101.4	-24.0	-0.2758 µg/L	-0.2758 ppb	05:30:23
3	P 214.914†	-13.1	5.0	1.0675 µg/L	1.0675 ppb	05:30:23
3	Pb 220.353†	64.9	-22.1	-1.2346 µg/L	-1.2346 ppb	05:30:23
3	S 181.975 Axial†	129.8	23.6	17.494 µg/L	17.494 ppb	05:30:23
3	Sb 206.836†	87.0	5.4	0.6334 µg/L	0.6334 ppb	05:30:23
3	Se 196.026†	10.7	-4.7	-1.70 µg/L	-1.70 ppb	05:30:23
3	SiO2†	1882.5	89.6	8.7541 µg/L	8.7541 ppb	05:30:23
3	Si 251.611†	1382.2	532.8	7.8517 µg/L	7.8517 ppb	05:30:03
3	Sn 189.927†	11.8	12.8	0.7982 µg/L	0.7982 ppb	05:30:23
3	Ti 334.940†	879.1	-81.6	-0.0764 µg/L	-0.0764 ppb	05:30:03
3	Tl 190.801†	-116.9	0.8	0.1011 µg/L	0.1011 ppb	05:30:23
3	U 409.014†	-266.9	5.4	0.3199 µg/L	0.3199 ppb	05:30:03
3	V 292.402†	413.0	5.4	0.0263 µg/L	0.0263 ppb	05:30:03
3	Zn 213.857†	613.4	43.3	0.2445 µg/L	0.2445 ppb	05:30:23

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1732700.5	100.84 %	0.528			0.52%
Sc RADIAL	143904.1	98.6 %	0.88			0.89%
Y 371.029	1032684.3	100.58 %	0.470			0.47%
Ag 328.068†	40.6	0.1551 µg/L	0.70592	0.1551 ppb	0.70592	455.07%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	4.5	0.8374 µg/L	0.78760	0.8374 ppb	0.78760	94.05%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	8.4	2.5342 µg/L	2.79413	2.5342 ppb	2.79413	110.26%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-31.6	-0.4672 µg/L	0.76060	-0.4672 ppb	0.76060	162.81%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-16.1	-0.0650 µg/L	0.05251	-0.0650 ppb	0.05251	80.77%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	261.2	0.0718 µg/L	0.03646	0.0718 ppb	0.03646	50.77%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	63.3	3.5248 µg/L	1.21495	3.5248 ppb	1.21495	34.47%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	28.3	0.1763 µg/L	0.13198	0.1763 ppb	0.13198	74.87%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	24.6	0.3034 µg/L	0.10911	0.3034 ppb	0.10911	35.97%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	28.4	0.2211 µg/L	0.12108	0.2211 ppb	0.12108	54.77%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-90.0	-0.3471 µg/L	0.30898	-0.3471 ppb	0.30898	89.03%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	74.0	4.5593 µg/L	0.61170	4.5593 ppb	0.61170	13.42%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	258.2	94.499 µg/L	11.4743	94.499 ppb	11.4743	12.14%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-6.0	-2.2380 µg/L	5.79119	-2.2380 ppb	5.79119	258.77%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	139.1	0.1722 µg/L	0.01838	0.1722 ppb	0.01838	10.67%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-8.2	-0.2411 µg/L	0.09951	-0.2411 ppb	0.09951	41.27%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	967.6	132.11 µg/L	17.919	132.11 ppb	17.919	13.56%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-10.6	-0.1222 µg/L	0.16331	-0.1222 ppb	0.16331	133.60%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	0.1	0.0370 µg/L	1.42036	0.0370 ppb	1.42036	>999.9%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-6.4	-0.3613 µg/L	0.76677	-0.3613 ppb	0.76677	212.21%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	22.0	16.340 µg/L	3.4002	16.340 ppb	3.4002	20.81%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-4.1	-0.4912 µg/L	1.41878	-0.4912 ppb	1.41878	288.83%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-1.7	-0.603 µg/L	1.8834	-0.603 ppb	1.8834	312.20%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	97.0	9.4816 µg/L	2.40526	9.4816 ppb	2.40526	25.37%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	515.1	7.5935 µg/L	1.07596	7.5935 ppb	1.07596	14.17%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	7.5	0.4657 µg/L	0.55945	0.4657 ppb	0.55945	120.12%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-62.2	-0.1293 µg/L	0.12779	-0.1293 ppb	0.12779	98.81%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-70.0	-0.0661 µg/L	0.02865	-0.0661 ppb	0.02865	43.32%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	1.0	0.1215 µg/L	1.42267	0.1215 ppb	1.42267	>999.9%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	38.6	2.2659 µg/L	2.05768	2.2659 ppb	2.05768	90.81%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	35.4	0.1724 µg/L	0.43447	0.1724 ppb	0.43447	252.00%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	50.0	0.2812 µg/L	0.09229	0.2812 ppb	0.09229	32.82%	
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 16

Sample ID: 248247004|959150|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 312

Date Collected: 4/1/2010 5:30:31

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248247004|959150|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146738.1	146738.1	101 %		05:31:06
1	Al 396.153Radial†	839300.4	834740.1	154760 µg/L	154760 ppb	05:31:06
1	Ca 317.933Radial†	597793.3	593939.7	33085 µg/L	33085 ppb	05:31:06
1	Fe 238.204 Radial†	2398233.2	2384874.0	146990 µg/L	146990 ppb	05:31:04
1	K 766.490 Radial†	48967.2	47152.7	17219 µg/L	17219 ppb	05:31:06
1	Mg 279.077 IEC†	80282.9	79649.9	29550 µg/L	29550 ppb	05:31:06
1	Na 589.592 Radial†	76101.2	74391.1	10147 µg/L	10147 ppb	05:31:06
1	Sr 421.552†	129236.1	128659.5	267.22 µg/L	267.22 ppb	05:31:06
1	Sc 361.383	1761761.6	1761761.6	102.53 %		05:31:19
1	Y 371.029	1220016.7	1220016.7	118.83 %		05:31:19
1	Ag 328.068†	3547.7	-631.4	-2.6072 µg/L	-2.6072 ppb	05:31:19
1	As 188.979†	38.0	57.4	53.388 µg/L	53.388 ppb	05:31:39
1	B 249.677†	5589.7	1945.7	28.562 µg/L	28.562 ppb	05:31:19
1	Ba 233.527†	204922.4	199993.4	804.16 µg/L	804.16 ppb	05:31:19
1	Be 313.107†	78235.8	77366.8	20.927 µg/L	20.927 ppb	05:31:19
1	Cd 226.502†	2203.1	2266.8	-1.1923 µg/L	-1.1923 ppb	05:31:39
1	Co 228.616†	2992.2	3108.6	31.535 µg/L	31.535 ppb	05:31:39
1	Cr 267.716†	42259.7	41036.6	326.10 µg/L	326.10 ppb	05:31:19
1	Cu 324.752†	22639.6	19107.8	96.109 µg/L	96.109 ppb	05:31:19
1	Mn 257.610†	1645293.6	1604391.0	1983.5 µg/L	1983.5 ppb	05:31:19
1	Mo 202.031†	-141.1	-117.5	2.9745 µg/L	2.9745 ppb	05:31:39
1	Ni 231.604†	19473.1	19068.3	219.56 µg/L	219.56 ppb	05:31:39
1	P 214.914†	2981.7	2926.0	559.43 µg/L	559.43 ppb	05:31:39
1	Pb 220.353†	1850.0	1717.9	103.14 µg/L	103.14 ppb	05:31:39
1	S 181.975 Axial†	1098.0	965.8	717.14 µg/L	717.14 ppb	05:31:39
1	Sb 206.836†	131.6	47.6	-1.7329 µg/L	-1.7329 ppb	05:31:39
1	Se 196.026†	-129.4	-141.5	-0.602 µg/L	-0.602 ppb	05:31:39
1	SiO2†	974775.9	948907.9	92748 µg/L	92748 ppb	05:31:19
1	Si 251.611†	2986137.4	2911495.0	42924 µg/L	42924 ppb	05:31:19
1	Sn 189.927†	142.6	140.2	14.079 µg/L	14.079 ppb	05:31:39
1	Ti 334.940†	1737769.4	1693865.9	1581.1 µg/L	1581.1 ppb	05:31:19
1	Tl 190.801†	-338.5	-213.5	-3.7960 µg/L	-3.7960 ppb	05:31:39
1	U 409.014†	-8297.1	-7822.1	-464.30 µg/L	-464.30 ppb	05:31:19
1	V 292.402†	46353.1	44803.7	202.63 µg/L	202.63 ppb	05:31:19
1	Zn 213.857†	74485.3	72079.9	390.94 µg/L	390.94 ppb	05:31:19
2	Sc RADIAL	147420.0	147420.0	101 %		05:31:10
2	Al 396.153Radial†	841554.7	833110.7	154460 µg/L	154460 ppb	05:31:10
2	Ca 317.933Radial†	598860.4	592246.0	32990 µg/L	32990 ppb	05:31:10
2	Fe 238.204 Radial†	2391564.4	2367240.2	145900 µg/L	145900 ppb	05:31:08
2	K 766.490 Radial†	49118.2	47076.9	17191 µg/L	17191 ppb	05:31:10
2	Mg 279.077 IEC†	80547.6	79542.7	29511 µg/L	29511 ppb	05:31:10
2	Na 589.592 Radial†	76069.0	74009.3	10095 µg/L	10095 ppb	05:31:10
2	Sr 421.552†	129676.5	128500.9	266.89 µg/L	266.89 ppb	05:31:10
2	Sc 361.383	1784982.5	1784982.5	103.89 %		05:31:42
2	Y 371.029	1236749.7	1236749.7	120.46 %		05:31:42
2	Ag 328.068†	3720.5	-510.0	-2.1682 µg/L	-2.1682 ppb	05:31:42
2	As 188.979†	49.0	67.5	56.205 µg/L	56.205 ppb	05:32:02
2	B 249.677†	5644.7	1927.7	28.297 µg/L	28.297 ppb	05:31:42
2	Ba 233.527†	207917.1	200276.1	805.31 µg/L	805.31 ppb	05:31:42
2	Be 313.107†	79521.7	77612.0	20.988 µg/L	20.988 ppb	05:31:42
2	Cd 226.502†	2241.8	2276.1	-1.0211 µg/L	-1.0211 ppb	05:32:02
2	Co 228.616†	3018.9	3096.3	31.442 µg/L	31.442 ppb	05:32:02
2	Cr 267.716†	43056.5	41267.5	327.88 µg/L	327.88 ppb	05:31:42
2	Cu 324.752†	22795.7	18970.8	95.402 µg/L	95.402 ppb	05:31:42
2	Mn 257.610†	1670661.1	1607935.0	1987.9 µg/L	1987.9 ppb	05:31:42
2	Mo 202.031†	-141.7	-116.3	2.9676 µg/L	2.9676 ppb	05:32:02
2	Ni 231.604†	19512.6	18859.2	217.15 µg/L	217.15 ppb	05:32:02
2	P 214.914†	2982.9	2889.3	552.27 µg/L	552.27 ppb	05:32:02
2	Pb 220.353†	1828.6	1673.8	100.71 µg/L	100.71 ppb	05:32:02

2	S 181.975 Axial†	1101.9	955.7	709.64 µg/L	709.64 ppb	05:32:02
2	Sb 206.836†	131.4	45.6	-1.9717 µg/L	-1.9717 ppb	05:32:02
2	Se 196.026†	-131.8	-142.1	-1.22 µg/L	-1.22 ppb	05:32:02
2	SiO2†	990041.8	951235.3	92975 µg/L	92975 ppb	05:31:42
2	Si 251.611†	3031999.6	2917755.2	43016 µg/L	43016 ppb	05:31:42
2	Sn 189.927†	161.6	156.7	15.109 µg/L	15.109 ppb	05:32:02
2	Ti 334.940†	1762296.0	1695427.1	1582.5 µg/L	1582.5 ppb	05:31:42
2	Tl 190.801†	-340.7	-211.3	-3.4940 µg/L	-3.4940 ppb	05:32:02
2	U 409.014†	-8739.7	-8142.9	-482.77 µg/L	-482.77 ppb	05:31:42
2	V 292.402†	47043.7	44880.3	203.11 µg/L	203.11 ppb	05:31:42
2	Zn 213.857†	75834.6	72433.7	393.05 µg/L	393.05 ppb	05:31:42
3	Sc RADIAL	146745.2	146745.2	101 %		05:31:14
3	Al 396.153Radial†	840548.4	835941.0	154980 µg/L	154980 ppb	05:31:14
3	Ca 317.933Radial†	596066.0	592193.3	32987 µg/L	32987 ppb	05:31:14
3	Fe 238.204 Radial†	2419789.2	2406195.4	148300 µg/L	148300 ppb	05:31:12
3	K 766.490 Radial†	48976.0	47159.1	17221 µg/L	17221 ppb	05:31:14
3	Mg 279.077 IEC†	80168.3	79532.1	29505 µg/L	29505 ppb	05:31:14
3	Na 589.592 Radial†	75624.2	73913.2	10082 µg/L	10082 ppb	05:31:14
3	Sr 421.552†	129213.7	128631.0	267.16 µg/L	267.16 ppb	05:31:14
3	Sc 361.383	1781693.7	1781693.7	103.69 %		05:32:05
3	Y 371.029	1233844.7	1233844.7	120.18 %		05:32:05
3	Ag 328.068†	3698.1	-525.0	-2.2362 µg/L	-2.2362 ppb	05:32:05
3	As 188.979†	40.4	59.3	54.254 µg/L	54.254 ppb	05:32:25
3	B 249.677†	5726.7	2016.8	29.609 µg/L	29.609 ppb	05:32:05
3	Ba 233.527†	207767.6	200501.4	806.19 µg/L	806.19 ppb	05:32:05
3	Be 313.107†	78993.0	77243.4	20.891 µg/L	20.891 ppb	05:32:05
3	Cd 226.502†	2233.5	2272.2	-1.2974 µg/L	-1.2974 ppb	05:32:25
3	Co 228.616†	3055.9	3137.4	31.824 µg/L	31.824 ppb	05:32:25
3	Cr 267.716†	42803.7	41100.1	326.65 µg/L	326.65 ppb	05:32:05
3	Cu 324.752†	22715.7	18934.2	95.618 µg/L	95.618 ppb	05:32:05
3	Mn 257.610†	1663780.7	1604268.2	1983.4 µg/L	1983.4 ppb	05:32:05
3	Mo 202.031†	-167.7	-141.6	2.3168 µg/L	2.3168 ppb	05:32:25
3	Ni 231.604†	19659.5	19035.6	219.18 µg/L	219.18 ppb	05:32:25
3	P 214.914†	3028.9	2939.0	561.39 µg/L	561.39 ppb	05:32:25
3	Pb 220.353†	1790.4	1640.2	98.780 µg/L	98.780 ppb	05:32:25
3	S 181.975 Axial†	1121.8	976.7	725.27 µg/L	725.27 ppb	05:32:25
3	Sb 206.836†	150.8	64.6	0.2626 µg/L	0.2626 ppb	05:32:25
3	Se 196.026†	-99.3	-111.1	10.8 µg/L	10.8 ppb	05:32:25
3	SiO2†	984855.2	947992.5	92659 µg/L	92659 ppb	05:32:05
3	Si 251.611†	3017560.7	2909218.0	42890 µg/L	42890 ppb	05:32:05
3	Sn 189.927†	170.3	165.4	15.644 µg/L	15.644 ppb	05:32:25
3	Ti 334.940†	1757346.8	1693785.5	1581.0 µg/L	1581.0 ppb	05:32:05
3	Tl 190.801†	-368.8	-239.0	-6.9338 µg/L	-6.9338 ppb	05:32:25
3	U 409.014†	-8552.8	-7978.2	-473.77 µg/L	-473.77 ppb	05:32:05
3	V 292.402†	46773.1	44702.9	201.99 µg/L	201.99 ppb	05:32:05
3	Zn 213.857†	75391.9	72141.5	391.15 µg/L	391.15 ppb	05:32:05

Mean Data: 248247004|959150|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1776145.9	103.37 %	0.731			0.71%
Sc RADIAL	146967.8	101 %	0.3			0.27%
Y 371.029	1230203.7	119.82 %	0.871			0.73%
Ag 328.068†	-555.5	-2.3372 µg/L	0.23626	-2.3372 ppb	0.23626	10.11%
Al 396.153Radial†	834597.3	154730 µg/L	263.4	154730 ppb	263.4	0.17%
As 188.979†	61.4	54.616 µg/L	1.4427	54.616 ppb	1.4427	2.64%
B 249.677†	1963.4	28.823 µg/L	0.6938	28.823 ppb	0.6938	2.41%
Ba 233.527†	200257.0	805.22 µg/L	1.018	805.22 ppb	1.018	0.13%
Be 313.107†	77407.4	20.936 µg/L	0.0492	20.936 ppb	0.0492	0.24%
Ca 317.933Radial†	592793.0	33021 µg/L	55.3	33021 ppb	55.3	0.17%
Cd 226.502†	2271.7	-1.1703 µg/L	0.13946	-1.1703 ppb	0.13946	11.92%
Co 228.616†	3114.1	31.600 µg/L	0.1992	31.600 ppb	0.1992	0.63%
Cr 267.716†	41134.7	326.88 µg/L	0.914	326.88 ppb	0.914	0.28%
Cu 324.752†	19004.3	95.710 µg/L	0.3625	95.710 ppb	0.3625	0.38%
Fe 238.204 Radial†	2386103.2	147060 µg/L	1202.3	147060 ppb	1202.3	0.82%
K 766.490 Radial†	47129.6	17210 µg/L	16.7	17210 ppb	16.7	0.10%
Mg 279.077 IEC†	79574.9	29522 µg/L	24.4	29522 ppb	24.4	0.08%
Mn 257.610†	1605531.4	1985.0 µg/L	2.58	1985.0 ppb	2.58	0.13%
Mo 202.031†	-125.2	2.7530 µg/L	0.37771	2.7530 ppb	0.37771	13.72%
Na 589.592 Radial†	74104.5	10108 µg/L	34.5	10108 ppb	34.5	0.34%

Ni 231.604†	18987.7	218.63 µg/L	1.295	218.63 ppb	1.295	0.59%
P 214.914†	2918.1	557.70 µg/L	4.799	557.70 ppb	4.799	0.86%
Pb 220.353†	1677.3	100.88 µg/L	2.183	100.88 ppb	2.183	2.16%
S 181.975 Axial†	966.1	717.35 µg/L	7.818	717.35 ppb	7.818	1.09%
Sb 206.836†	52.6	-1.1474 µg/L	1.22686	-1.1474 ppb	1.22686	106.93%
Se 196.026†	-131.6	3.01 µg/L	6.795	3.01 ppb	6.795	225.71%
SiO2†	949378.6	92794 µg/L	163.4	92794 ppb	163.4	0.18%
Si 251.611†	2912822.8	42943 µg/L	65.2	42943 ppb	65.2	0.15%
Sn 189.927†	154.1	14.944 µg/L	0.7956	14.944 ppb	0.7956	5.32%
Sr 421.552†	128597.1	267.09 µg/L	0.176	267.09 ppb	0.176	0.07%
Ti 334.940†	1694359.5	1581.5 µg/L	0.87	1581.5 ppb	0.87	0.05%
Tl 190.801†	-221.2	-4.7413 µg/L	1.90475	-4.7413 ppb	1.90475	40.17%
U 409.014†	-7981.1	-473.61 µg/L	9.236	-473.61 ppb	9.236	1.95%
Concentration less than lower limit for U 409.014.						
V 292.402†	44795.6	202.58 µg/L	0.564	202.58 ppb	0.564	0.28%
Zn 213.857†	72218.4	391.71 µg/L	1.164	391.71 ppb	1.164	0.30%

Sequence No.: 17

Sample ID: 248247005|959150|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 313

Date Collected: 4/1/2010 5:32:34

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248247005|959150|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	144411.5	144411.5	99.0 %		05:33:06
1	Al 396.153Radial†	212047.6	214340.1	39738 µg/L	39738 ppb	05:33:06
1	Ca 317.933Radial†	155923.7	157002.4	8745.6 µg/L	8745.6 ppb	05:33:06
1	Fe 238.204 Radial†	1368675.6	1382916.9	85235 µg/L	85235 ppb	05:33:04
1	K 766.490 Radial†	18021.5	16666.2	6090.4 µg/L	6090.4 ppb	05:33:06
1	Mg 279.077 IEC†	22890.1	22940.0	8474.1 µg/L	8474.1 ppb	05:33:06
1	Na 589.592 Radial†	12167.6	11004.7	1498.0 µg/L	1498.0 ppb	05:33:06
1	Sr 421.552†	36676.8	37197.7	77.263 µg/L	77.263 ppb	05:33:06
1	Sc 361.383	1758253.2	1758253.2	102.33 %		05:33:19
1	Y 371.029	1250685.7	1250685.7	121.82 %		05:33:19
1	Ag 328.068†	3975.0	-206.9	-1.6048 µg/L	-1.6048 ppb	05:33:21
1	As 188.979†	4.5	24.7	27.741 µg/L	27.741 ppb	05:33:41
1	B 249.677†	4253.6	650.9	9.5359 µg/L	9.5359 ppb	05:33:21
1	Ba 233.527†	72493.6	70978.7	284.98 µg/L	284.98 ppb	05:33:21
1	Be 313.107†	30673.1	31039.3	8.3402 µg/L	8.3402 ppb	05:33:21
1	Cd 226.502†	1331.1	1418.9	-0.0695 µg/L	-0.0695 ppb	05:33:41
1	Co 228.616†	1323.5	1483.7	14.161 µg/L	14.161 ppb	05:33:41
1	Cr 267.716†	15626.4	15092.1	120.83 µg/L	120.83 ppb	05:33:41
1	Cu 324.752†	6906.3	3776.8	27.028 µg/L	27.028 ppb	05:33:21
1	Mn 257.610†	1826527.7	1784700.2	2207.6 µg/L	2207.6 ppb	05:33:19
1	Mo 202.031†	140.7	157.6	8.1865 µg/L	8.1865 ppb	05:33:41
1	Ni 231.604†	5608.4	5557.2	63.987 µg/L	63.987 ppb	05:33:41
1	P 214.914†	2917.3	2868.8	564.25 µg/L	564.25 ppb	05:33:41
1	Pb 220.353†	1059.6	949.1	57.144 µg/L	57.144 ppb	05:33:41
1	S 181.975 Axial†	352.7	239.6	177.95 µg/L	177.95 ppb	05:33:41
1	Sb 206.836†	87.4	4.6	-2.3569 µg/L	-2.3569 ppb	05:33:41
1	Se 196.026†	-80.0	-93.5	-4.58 µg/L	-4.58 ppb	05:33:41
1	SiO2†	701724.9	683971.2	66852 µg/L	66852 ppb	05:33:19
1	Si 251.611†	2165508.9	2115363.4	31186 µg/L	31186 ppb	05:33:19
1	Sn 189.927†	59.6	59.3	14.308 µg/L	14.308 ppb	05:33:41
1	Ti 334.940†	3447107.0	3367663.4	3145.9 µg/L	3145.9 ppb	05:33:19
1	Tl 190.801†	-446.3	-319.5	-1.4414 µg/L	-1.4414 ppb	05:33:41
1	U 409.014†	-6717.1	-6294.3	-368.09 µg/L	-368.09 ppb	05:33:21
1	V 292.402†	17822.7	17013.1	71.393 µg/L	71.393 ppb	05:33:21
1	Zn 213.857†	83379.8	80916.8	447.37 µg/L	447.37 ppb	05:33:21
2	Sc RADIAL	144824.9	144824.9	99.2 %		05:33:10
2	Al 396.153Radial†	212903.0	214590.6	39785 µg/L	39785 ppb	05:33:10
2	Ca 317.933Radial†	156619.8	157254.1	8759.7 µg/L	8759.7 ppb	05:33:10
2	Fe 238.204 Radial†	1370064.2	1380368.7	85077 µg/L	85077 ppb	05:33:08
2	K 766.490 Radial†	18072.5	16665.6	6090.1 µg/L	6090.1 ppb	05:33:10
2	Mg 279.077 IEC†	22901.7	22885.7	8454.0 µg/L	8454.0 ppb	05:33:10
2	Na 589.592 Radial†	12239.4	11042.0	1503.0 µg/L	1503.0 ppb	05:33:10
2	Sr 421.552†	36768.0	37183.8	77.234 µg/L	77.234 ppb	05:33:10
2	Sc 361.383	1760730.0	1760730.0	102.47 %		05:33:44
2	Y 371.029	1252544.3	1252544.3	122.00 %		05:33:44
2	Ag 328.068†	4401.8	204.2	-0.0664 µg/L	-0.0664 ppb	05:33:46
2	As 188.979†	11.3	31.4	29.732 µg/L	29.732 ppb	05:34:06
2	B 249.677†	4414.8	802.3	11.770 µg/L	11.770 ppb	05:33:46
2	Ba 233.527†	72080.5	70476.0	282.96 µg/L	282.96 ppb	05:33:46
2	Be 313.107†	30461.3	30790.5	8.2766 µg/L	8.2766 ppb	05:33:46
2	Cd 226.502†	1368.9	1454.1	0.1663 µg/L	0.1663 ppb	05:34:06
2	Co 228.616†	1301.5	1460.4	13.880 µg/L	13.880 ppb	05:34:06
2	Cr 267.716†	15708.8	15151.0	121.27 µg/L	121.27 ppb	05:34:06
2	Cu 324.752†	6839.3	3702.0	26.725 µg/L	26.725 ppb	05:33:46
2	Mn 257.610†	1830914.7	1786470.4	2209.8 µg/L	2209.8 ppb	05:33:44
2	Mo 202.031†	149.4	165.9	8.4226 µg/L	8.4226 ppb	05:34:06
2	Ni 231.604†	5603.5	5544.7	63.844 µg/L	63.844 ppb	05:34:06
2	P 214.914†	2902.3	2850.1	560.38 µg/L	560.38 ppb	05:34:06
2	Pb 220.353†	1109.6	996.5	59.792 µg/L	59.792 ppb	05:34:06

2	S 181.975 Axial†	347.9	234.4	174.13	µg/L	174.13	ppb	05:34:06
2	Sb 206.836†	71.8	-10.8	-4.1869	µg/L	-4.1869	ppb	05:34:06
2	Se 196.026†	-73.9	-87.4	-2.42	µg/L	-2.42	ppb	05:34:06
2	SiO2†	703339.4	684582.0	66912	µg/L	66912	ppb	05:33:44
2	Si 251.611†	2171922.4	2118645.2	31235	µg/L	31235	ppb	05:33:44
2	Sn 189.927†	64.8	64.4	14.637	µg/L	14.637	ppb	05:34:06
2	Ti 334.940†	3456059.4	3371661.1	3149.7	µg/L	3149.7	ppb	05:33:44
2	Tl 190.801†	-454.7	-327.1	-2.3290	µg/L	-2.3290	ppb	05:34:06
2	U 409.014†	-6482.9	-6056.5	-354.14	µg/L	-354.14	ppb	05:33:46
2	V 292.402†	17828.4	16994.2	71.328	µg/L	71.328	ppb	05:33:46
2	Zn 213.857†	82663.0	80102.7	442.82	µg/L	442.82	ppb	05:33:46
3	Sc RADIAL	146162.5	146162.5	100	%			05:33:14
3	Al 396.153Radial†	213884.9	213607.6	39602	µg/L	39602	ppb	05:33:14
3	Ca 317.933Radial†	157437.1	156625.8	8724.7	µg/L	8724.7	ppb	05:33:14
3	Fe 238.204 Radial†	1383292.1	1380941.6	85113	µg/L	85113	ppb	05:33:12
3	K 766.490 Radial†	18056.5	16483.0	6023.3	µg/L	6023.3	ppb	05:33:14
3	Mg 279.077 IEC†	23084.6	22857.2	8443.4	µg/L	8443.4	ppb	05:33:14
3	Na 589.592 Radial†	12332.4	11021.9	1500.4	µg/L	1500.4	ppb	05:33:14
3	Sr 421.552†	36924.4	37000.9	76.854	µg/L	76.854	ppb	05:33:14
3	Sc 361.383	1758011.4	1758011.4	102.32	%			05:34:09
3	Y 371.029	1250627.1	1250627.1	121.81	%			05:34:09
3	Ag 328.068†	4067.4	-116.0	-1.2603	µg/L	-1.2603	ppb	05:34:11
3	As 188.979†	8.9	29.0	29.014	µg/L	29.014	ppb	05:34:31
3	B 249.677†	4476.7	869.4	12.760	µg/L	12.760	ppb	05:34:11
3	Ba 233.527†	72883.6	71369.7	286.56	µg/L	286.56	ppb	05:34:11
3	Be 313.107†	30918.9	31283.7	8.4047	µg/L	8.4047	ppb	05:34:11
3	Cd 226.502†	1370.1	1457.3	0.1829	µg/L	0.1829	ppb	05:34:31
3	Co 228.616†	1307.7	1468.4	13.980	µg/L	13.980	ppb	05:34:31
3	Cr 267.716†	15655.5	15122.5	121.07	µg/L	121.07	ppb	05:34:31
3	Cu 324.752†	6773.7	3648.1	26.504	µg/L	26.504	ppb	05:34:11
3	Mn 257.610†	1825098.8	1783549.2	2206.2	µg/L	2206.2	ppb	05:34:09
3	Mo 202.031†	158.1	174.6	8.6809	µg/L	8.6809	ppb	05:34:31
3	Ni 231.604†	5610.3	5559.8	64.017	µg/L	64.017	ppb	05:34:31
3	P 214.914†	2890.2	2842.8	558.74	µg/L	558.74	ppb	05:34:31
3	Pb 220.353†	1054.3	944.0	56.860	µg/L	56.860	ppb	05:34:31
3	S 181.975 Axial†	338.9	226.2	167.98	µg/L	167.98	ppb	05:34:31
3	Sb 206.836†	80.8	-1.8	-3.1097	µg/L	-3.1097	ppb	05:34:31
3	Se 196.026†	-57.9	-71.9	3.18	µg/L	3.18	ppb	05:34:31
3	SiO2†	701155.3	683508.8	66807	µg/L	66807	ppb	05:34:09
3	Si 251.611†	2164009.2	2114188.7	31169	µg/L	31169	ppb	05:34:09
3	Sn 189.927†	68.2	67.8	14.826	µg/L	14.826	ppb	05:34:31
3	Ti 334.940†	3444118.3	3365205.7	3143.7	µg/L	3143.7	ppb	05:34:09
3	Tl 190.801†	-426.1	-299.8	0.9646	µg/L	0.9646	ppb	05:34:31
3	U 409.014†	-6834.4	-6409.8	-374.76	µg/L	-374.76	ppb	05:34:11
3	V 292.402†	18073.9	17261.0	72.619	µg/L	72.619	ppb	05:34:11
3	Zn 213.857†	84319.9	81846.9	452.61	µg/L	452.61	ppb	05:34:11

Mean Data: 248247005|959150|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1758998.2	102.37	%	0.088			0.09%
Sc RADIAL	145132.9	99.5	%	0.63			0.63%
Y 371.029	1251285.7	121.88	%	0.106			0.09%
Ag 328.068†	-39.6	-0.9772	µg/L	0.80733	-0.9772	ppb	82.62%
Al 396.153Radial†	214179.4	39708	µg/L	94.7	39708	ppb	0.24%
As 188.979†	28.4	28.829	µg/L	1.0082	28.829	ppb	3.50%
B 249.677†	774.2	11.355	µg/L	1.6515	11.355	ppb	14.54%
Ba 233.527†	70941.5	284.83	µg/L	1.805	284.83	ppb	0.63%
Be 313.107†	31037.8	8.3405	µg/L	0.06402	8.3405	ppb	0.77%
Ca 317.933Radial†	156960.8	8743.3	µg/L	17.61	8743.3	ppb	0.20%
Cd 226.502†	1443.4	0.0932	µg/L	0.14119	0.0932	ppb	151.47%
Co 228.616†	1470.8	14.007	µg/L	0.1425	14.007	ppb	1.02%
Cr 267.716†	15121.9	121.06	µg/L	0.223	121.06	ppb	0.18%
Cu 324.752†	3709.0	26.753	µg/L	0.2633	26.753	ppb	0.98%
Fe 238.204 Radial†	1381409.0	85142	µg/L	82.4	85142	ppb	0.10%
K 766.490 Radial†	16604.9	6067.9	µg/L	38.64	6067.9	ppb	0.64%
Mg 279.077 IEC†	22894.3	8457.2	µg/L	15.62	8457.2	ppb	0.18%
Mn 257.610†	1784906.6	2207.9	µg/L	1.82	2207.9	ppb	0.08%
Mo 202.031†	166.0	8.4300	µg/L	0.24730	8.4300	ppb	2.93%
Na 589.592 Radial†	11022.9	1500.5	µg/L	2.55	1500.5	ppb	0.17%

Ni 231.604†	5553.9	63.949 µg/L	0.0929	63.949 ppb	0.0929	0.15%
P 214.914†	2853.9	561.12 µg/L	2.827	561.12 ppb	2.827	0.50%
Pb 220.353†	963.2	57.932 µg/L	1.6174	57.932 ppb	1.6174	2.79%
S 181.975 Axial†	233.4	173.35 µg/L	5.032	173.35 ppb	5.032	2.90%
Sb 206.836†	-2.7	-3.2178 µg/L	0.91980	-3.2178 ppb	0.91980	28.58%
Se 196.026†	-84.3	-1.27 µg/L	4.001	-1.27 ppb	4.001	314.03%
SiO2†	684020.7	66857 µg/L	52.6	66857 ppb	52.6	0.08%
Si 251.611†	2116065.8	31197 µg/L	34.1	31197 ppb	34.1	0.11%
Sn 189.927†	63.8	14.590 µg/L	0.2621	14.590 ppb	0.2621	1.80%
Sr 421.552†	37127.4	77.117 µg/L	0.2282	77.117 ppb	0.2282	0.30%
Ti 334.940†	3368176.7	3146.4 µg/L	3.04	3146.4 ppb	3.04	0.10%
Tl 190.801†	-315.5	-0.9352 µg/L	1.70413	-0.9352 ppb	1.70413	182.21%
U 409.014†	-6253.5	-365.66 µg/L	10.520	-365.66 ppb	10.520	2.88%
Concentration less than lower limit for U 409.014.						
V 292.402†	17089.4	71.780 µg/L	0.7274	71.780 ppb	0.7274	1.01%
Zn 213.857†	80955.5	447.60 µg/L	4.898	447.60 ppb	4.898	1.09%

Sequence No.: 18

Sample ID: 248247006|959150|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 314

Date Collected: 4/1/2010 5:34:39

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248247006|959150|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146028.1	146028.1	100 %		05:35:11
1	Al 396.153Radial†	263467.3	263353.0	48825 µg/L	48825 ppb	05:35:09
1	Ca 317.933Radial†	231601.8	230885.2	12861 µg/L	12861 ppb	05:35:11
1	Fe 238.204 Radial†	1400755.9	1399664.0	86267 µg/L	86267 ppb	05:35:09
1	K 766.490 Radial†	20558.0	18999.4	6941.8 µg/L	6941.8 ppb	05:35:11
1	Mg 279.077 IEC†	24667.4	24460.0	9039.6 µg/L	9039.6 ppb	05:35:11
1	Na 589.592 Radial†	10411.4	9113.6	1238.8 µg/L	1238.8 ppb	05:35:11
1	Sr 421.552†	44090.9	44196.4	91.781 µg/L	91.781 ppb	05:35:11
1	Sc 361.383	1755874.9	1755874.9	102.19 %		05:35:24
1	Y 371.029	1268515.5	1268515.5	123.55 %		05:35:24
1	Ag 328.068†	4087.8	-91.3	-1.3309 µg/L	-1.3309 ppb	05:35:24
1	As 188.979†	40.6	60.1	38.042 µg/L	38.042 ppb	05:35:44
1	B 249.677†	4759.8	1151.8	16.920 µg/L	16.920 ppb	05:35:24
1	Ba 233.527†	94631.8	92738.1	372.65 µg/L	372.65 ppb	05:35:24
1	Be 313.107†	32973.6	33331.1	8.9530 µg/L	8.9530 ppb	05:35:24
1	Cd 226.502†	1370.4	1459.3	0.0647 µg/L	0.0647 ppb	05:35:44
1	Co 228.616†	1410.1	1570.2	15.248 µg/L	15.248 ppb	05:35:44
1	Cr 267.716†	7132.9	6801.3	55.957 µg/L	55.957 ppb	05:35:44
1	Cu 324.752†	8679.4	5521.1	33.942 µg/L	33.942 ppb	05:35:24
1	Mn 257.610†	1804971.4	1766023.9	2184.5 µg/L	2184.5 ppb	05:35:24
1	Mo 202.031†	177.9	194.1	9.3113 µg/L	9.3113 ppb	05:35:44
1	Ni 231.604†	3953.4	3945.1	45.425 µg/L	45.425 ppb	05:35:44
1	P 214.914†	2623.7	2585.4	504.91 µg/L	504.91 ppb	05:35:44
1	Pb 220.353†	1149.0	1038.0	61.849 µg/L	61.849 ppb	05:35:44
1	S 181.975 Axial†	587.6	469.9	348.99 µg/L	348.99 ppb	05:35:44
1	Sb 206.836†	97.7	14.8	-0.2144 µg/L	-0.2144 ppb	05:35:44
1	Se 196.026†	-79.3	-92.9	-4.05 µg/L	-4.05 ppb	05:35:44
1	SiO2†	769135.1	750864.5	73391 µg/L	73391 ppb	05:35:24
1	Si 251.611†	2358443.1	2307026.3	34012 µg/L	34012 ppb	05:35:24
1	Sn 189.927†	168.3	165.8	18.880 µg/L	18.880 ppb	05:35:44
1	Ti 334.940†	2771386.5	2710997.5	2532.5 µg/L	2532.5 ppb	05:35:24
1	Tl 190.801†	-425.1	-299.3	-5.1825 µg/L	-5.1825 ppb	05:35:44
1	U 409.014†	-7357.6	-6929.9	-405.38 µg/L	-405.38 ppb	05:35:24
1	V 292.402†	17826.2	17040.1	71.693 µg/L	71.693 ppb	05:35:24
1	Zn 213.857†	71943.9	69836.5	384.90 µg/L	384.90 ppb	05:35:24
2	Sc RADIAL	147353.8	147353.8	101 %		05:35:15
2	Al 396.153Radial†	263350.8	260868.9	48365 µg/L	48365 ppb	05:35:13
2	Ca 317.933Radial†	233969.6	231147.9	12876 µg/L	12876 ppb	05:35:15
2	Fe 238.204 Radial†	1396755.9	1383109.5	85246 µg/L	85246 ppb	05:35:13
2	K 766.490 Radial†	20788.4	19042.7	6957.7 µg/L	6957.7 ppb	05:35:15
2	Mg 279.077 IEC†	24978.1	24546.1	9072.5 µg/L	9072.5 ppb	05:35:15
2	Na 589.592 Radial†	10409.0	9017.6	1225.7 µg/L	1225.7 ppb	05:35:15
2	Sr 421.552†	44610.3	44314.4	92.026 µg/L	92.026 ppb	05:35:15
2	Sc 361.383	1781293.1	1781293.1	103.67 %		05:35:47
2	Y 371.029	1286125.7	1286125.7	125.27 %		05:35:47
2	Ag 328.068†	4116.8	-120.4	-1.4682 µg/L	-1.4682 ppb	05:35:47
2	As 188.979†	25.0	44.4	33.081 µg/L	33.081 ppb	05:36:07
2	B 249.677†	4538.8	872.2	12.797 µg/L	12.797 ppb	05:35:47
2	Ba 233.527†	96183.8	92913.8	373.37 µg/L	373.37 ppb	05:35:47
2	Be 313.107†	33344.1	33228.1	8.9201 µg/L	8.9201 ppb	05:35:47
2	Cd 226.502†	1378.2	1447.6	0.0986 µg/L	0.0986 ppb	05:36:07
2	Co 228.616†	1424.8	1564.7	15.235 µg/L	15.235 ppb	05:36:07
2	Cr 267.716†	7160.1	6728.0	55.359 µg/L	55.359 ppb	05:36:07
2	Cu 324.752†	8652.1	5373.5	33.208 µg/L	33.208 ppb	05:35:47
2	Mn 257.610†	1832576.9	1767448.1	2186.3 µg/L	2186.3 ppb	05:35:47
2	Mo 202.031†	174.9	188.8	9.1132 µg/L	9.1132 ppb	05:36:07
2	Ni 231.604†	3943.0	3879.9	44.674 µg/L	44.674 ppb	05:36:07
2	P 214.914†	2603.7	2529.4	493.55 µg/L	493.55 ppb	05:36:07
2	Pb 220.353†	1189.1	1060.6	63.131 µg/L	63.131 ppb	05:36:07

2	S 181.975 Axial†	602.7	476.3	353.74 µg/L	353.74 ppb	05:36:07
2	Sb 206.836†	76.7	-6.8	-2.7652 µg/L	-2.7652 ppb	05:36:07
2	Se 196.026†	-76.3	-88.9	-2.97 µg/L	-2.97 ppb	05:36:07
2	SiO2†	780811.8	751387.9	73442 µg/L	73442 ppb	05:35:47
2	Si 251.611†	2394907.9	2309267.7	34045 µg/L	34045 ppb	05:35:47
2	Sn 189.927†	187.4	181.9	19.888 µg/L	19.888 ppb	05:36:07
2	Ti 334.940†	2814656.2	2714036.8	2535.4 µg/L	2535.4 ppb	05:35:47
2	Tl 190.801†	-408.2	-277.0	-2.4250 µg/L	-2.4250 ppb	05:36:07
2	U 409.014†	-7749.6	-7205.3	-421.31 µg/L	-421.31 ppb	05:35:47
2	V 292.402†	17811.4	16776.9	70.498 µg/L	70.498 ppb	05:35:47
2	Zn 213.857†	73099.5	69946.6	385.62 µg/L	385.62 ppb	05:35:47
3	Sc RADIAL	144864.4	144864.4	99.3 %		05:35:19
3	Al 396.153Radial†	265137.0	267150.1	49529 µg/L	49529 ppb	05:35:17
3	Ca 317.933Radial†	229339.5	230465.6	12838 µg/L	12838 ppb	05:35:19
3	Fe 238.204 Radial†	1409363.2	1419579.9	87494 µg/L	87494 ppb	05:35:17
3	K 766.490 Radial†	20137.5	18740.9	6847.0 µg/L	6847.0 ppb	05:35:19
3	Mg 279.077 IEC†	24323.4	24311.6	8983.2 µg/L	8983.2 ppb	05:35:19
3	Na 589.592 Radial†	10370.4	9155.9	1244.7 µg/L	1244.7 ppb	05:35:19
3	Sr 421.552†	43916.2	44374.5	92.151 µg/L	92.151 ppb	05:35:19
3	Sc 361.383	1758741.9	1758741.9	102.36 %		05:36:10
3	Y 371.029	1269988.6	1269988.6	123.70 %		05:36:10
3	Ag 328.068†	3901.6	-279.7	-2.0328 µg/L	-2.0328 ppb	05:36:10
3	As 188.979†	22.6	42.4	32.990 µg/L	32.990 ppb	05:36:30
3	B 249.677†	4714.9	1100.4	16.163 µg/L	16.163 ppb	05:36:10
3	Ba 233.527†	95027.1	92973.4	373.58 µg/L	373.58 ppb	05:36:10
3	Be 313.107†	32578.4	32892.4	8.8350 µg/L	8.8350 ppb	05:36:10
3	Cd 226.502†	1402.4	1488.3	0.1170 µg/L	0.1170 ppb	05:36:30
3	Co 228.616†	1397.0	1555.1	14.999 µg/L	14.999 ppb	05:36:30
3	Cr 267.716†	7162.3	6818.7	56.133 µg/L	56.133 ppb	05:36:30
3	Cu 324.752†	8716.6	5543.5	34.211 µg/L	34.211 ppb	05:36:10
3	Mn 257.610†	1807058.0	1765183.1	2183.5 µg/L	2183.5 ppb	05:36:10
3	Mo 202.031†	176.8	192.8	9.3183 µg/L	9.3183 ppb	05:36:30
3	Ni 231.604†	3946.1	3931.7	45.270 µg/L	45.270 ppb	05:36:30
3	P 214.914†	2617.6	2575.3	502.07 µg/L	502.07 ppb	05:36:30
3	Pb 220.353†	1159.6	1046.5	62.324 µg/L	62.324 ppb	05:36:30
3	S 181.975 Axial†	584.9	466.4	346.35 µg/L	346.35 ppb	05:36:30
3	Sb 206.836†	70.3	-12.2	-3.4477 µg/L	-3.4477 ppb	05:36:30
3	Se 196.026†	-69.5	-83.2	-0.108 µg/L	-0.108 ppb	05:36:30
3	SiO2†	769755.6	750243.9	73330 µg/L	73330 ppb	05:36:10
3	Si 251.611†	2360932.0	2305695.8	33992 µg/L	33992 ppb	05:36:10
3	Sn 189.927†	167.1	164.4	18.790 µg/L	18.790 ppb	05:36:30
3	Ti 334.940†	2776103.5	2711185.0	2532.7 µg/L	2532.7 ppb	05:36:10
3	Tl 190.801†	-437.9	-311.2	-6.6463 µg/L	-6.6463 ppb	05:36:30
3	U 409.014†	-7285.1	-6847.4	-400.85 µg/L	-400.85 ppb	05:36:10
3	V 292.402†	17799.6	16985.7	71.301 µg/L	71.301 ppb	05:36:10
3	Zn 213.857†	72023.2	69799.2	384.57 µg/L	384.57 ppb	05:36:10

Mean Data: 248247006|959150|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1765303.3	102.74 %	0.810			0.79%
Sc RADIAL	146082.1	100 %	0.9			0.85%
Y 371.029	1274876.6	124.17 %	0.952			0.77%
Ag 328.068†	-163.8	-1.6106 µg/L	0.37202	-1.6106 ppb	0.37202	23.10%
Al 396.153Radial†	263790.7	48906 µg/L	586.5	48906 ppb	586.5	1.20%
As 188.979†	49.0	34.704 µg/L	2.8906	34.704 ppb	2.8906	8.33%
B 249.677†	1041.5	15.293 µg/L	2.1949	15.293 ppb	2.1949	14.35%
Ba 233.527†	92875.1	373.20 µg/L	0.489	373.20 ppb	0.489	0.13%
Be 313.107†	33150.6	8.9027 µg/L	0.06089	8.9027 ppb	0.06089	0.68%
Ca 317.933Radial†	230832.9	12858 µg/L	19.2	12858 ppb	19.2	0.15%
Cd 226.502†	1465.0	0.0934 µg/L	0.02653	0.0934 ppb	0.02653	28.39%
Co 228.616†	1563.3	15.161 µg/L	0.1400	15.161 ppb	0.1400	0.92%
Cr 267.716†	6782.7	55.816 µg/L	0.4059	55.816 ppb	0.4059	0.73%
Cu 324.752†	5479.4	33.787 µg/L	0.5191	33.787 ppb	0.5191	1.54%
Fe 238.204 Radial†	1400784.5	86336 µg/L	1125.5	86336 ppb	1125.5	1.30%
K 766.490 Radial†	18927.7	6915.5 µg/L	59.87	6915.5 ppb	59.87	0.87%
Mg 279.077 IEC†	24439.2	9031.8 µg/L	45.15	9031.8 ppb	45.15	0.50%
Mn 257.610†	1766218.4	2184.8 µg/L	1.42	2184.8 ppb	1.42	0.06%
Mo 202.031†	191.9	9.2476 µg/L	0.11646	9.2476 ppb	0.11646	1.26%
Na 589.592 Radial†	9095.7	1236.4 µg/L	9.73	1236.4 ppb	9.73	0.79%

Ni 231.604†	3918.9	45.123 µg/L	0.3966	45.123 ppb	0.3966	0.88%
P 214.914†	2563.4	500.18 µg/L	5.910	500.18 ppb	5.910	1.18%
Pb 220.353†	1048.4	62.435 µg/L	0.6481	62.435 ppb	0.6481	1.04%
S 181.975 Axial†	470.9	349.69 µg/L	3.744	349.69 ppb	3.744	1.07%
Sb 206.836†	-1.4	-2.1424 µg/L	1.70421	-2.1424 ppb	1.70421	79.55%
Se 196.026†	-88.3	-2.38 µg/L	2.037	-2.38 ppb	2.037	85.71%
SiO2†	750832.1	73387 µg/L	56.0	73387 ppb	56.0	0.08%
Si 251.611†	2307329.9	34017 µg/L	26.6	34017 ppb	26.6	0.08%
Sn 189.927†	170.7	19.186 µg/L	0.6096	19.186 ppb	0.6096	3.18%
Sr 421.552†	44295.1	91.986 µg/L	0.1884	91.986 ppb	0.1884	0.20%
Ti 334.940†	2712073.1	2533.5 µg/L	1.59	2533.5 ppb	1.59	0.06%
Tl 190.801†	-295.8	-4.7513 µg/L	2.14344	-4.7513 ppb	2.14344	45.11%
U 409.014†	-6994.2	-409.18 µg/L	10.747	-409.18 ppb	10.747	2.63%
Concentration less than lower limit for U 409.014.						
V 292.402†	16934.2	71.164 µg/L	0.6087	71.164 ppb	0.6087	0.86%
Zn 213.857†	69860.8	385.03 µg/L	0.538	385.03 ppb	0.538	0.14%

Sequence No.: 19

Sample ID: 248247007|959150|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 315

Date Collected: 4/1/2010 5:36:38

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248247007|959150|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	148488.1	148488.1	102 %		05:37:10
1	Al 396.153Radial†	334150.4	328456.4	60895 µg/L	60895 ppb	05:37:08
1	Ca 317.933Radial†	213464.2	209225.7	11655 µg/L	11655 ppb	05:37:10
1	Fe 238.204 Radial†	1482639.3	1456946.2	89797 µg/L	89797 ppb	05:37:08
1	K 766.490 Radial†	21861.3	19939.9	7282.5 µg/L	7282.5 ppb	05:37:10
1	Mg 279.077 IEC†	28572.8	27889.8	10314 µg/L	10314 ppb	05:37:10
1	Na 589.592 Radial†	59641.6	57323.2	7824.6 µg/L	7824.6 ppb	05:37:10
1	Sr 421.552†	45599.6	44949.2	93.356 µg/L	93.356 ppb	05:37:10
1	Sc 361.383	1743239.3	1743239.3	101.46 %		05:37:23
1	Y 371.029	1195414.4	1195414.4	116.43 %		05:37:23
1	Ag 328.068†	3804.2	-341.8	-2.0506 µg/L	-2.0506 ppb	05:37:23
1	As 188.979†	-4.2	16.2	27.198 µg/L	27.198 ppb	05:37:43
1	B 249.677†	4351.3	783.0	11.466 µg/L	11.466 ppb	05:37:23
1	Ba 233.527†	94987.1	93759.5	376.74 µg/L	376.74 ppb	05:37:23
1	Be 313.107†	31894.8	32501.7	8.7234 µg/L	8.7234 ppb	05:37:23
1	Cd 226.502†	1378.6	1477.0	-0.1540 µg/L	-0.1540 ppb	05:37:43
1	Co 228.616†	1737.5	1902.9	19.205 µg/L	19.205 ppb	05:37:43
1	Cr 267.716†	29451.8	28850.5	228.73 µg/L	228.73 ppb	05:37:23
1	Cu 324.752†	9273.9	6168.6	37.000 µg/L	37.000 ppb	05:37:23
1	Mn 257.610†	1946625.3	1918447.1	2373.0 µg/L	2373.0 ppb	05:37:23
1	Mo 202.031†	12.7	32.6	4.7330 µg/L	4.7330 ppb	05:37:43
1	Ni 231.604†	11498.1	11409.6	131.37 µg/L	131.37 ppb	05:37:43
1	P 214.914†	1933.5	1923.7	363.63 µg/L	363.63 ppb	05:37:43
1	Pb 220.353†	1123.3	1020.8	61.224 µg/L	61.224 ppb	05:37:43
1	S 181.975 Axial†	627.9	513.9	381.59 µg/L	381.59 ppb	05:37:43
1	Sb 206.836†	112.1	29.7	-1.2094 µg/L	-1.2094 ppb	05:37:43
1	Se 196.026†	-63.4	-77.8	2.62 µg/L	2.62 ppb	05:37:43
1	SiO2†	851904.1	837900.9	81898 µg/L	81898 ppb	05:37:23
1	Si 251.611†	2609221.8	2570933.7	37903 µg/L	37903 ppb	05:37:23
1	Sn 189.927†	55.7	56.0	11.288 µg/L	11.288 ppb	05:37:43
1	Ti 334.940†	2511576.7	2474574.1	2311.5 µg/L	2311.5 ppb	05:37:23
1	Tl 190.801†	-404.4	-281.9	-4.6445 µg/L	-4.6445 ppb	05:37:43
1	U 409.014†	-7517.8	-7140.1	-416.27 µg/L	-416.27 ppb	05:37:23
1	V 292.402†	22136.3	21414.7	93.551 µg/L	93.551 ppb	05:37:23
1	Zn 213.857†	65452.0	63948.1	350.94 µg/L	350.94 ppb	05:37:23
2	Sc RADIAL	146677.3	146677.3	101 %		05:37:14
2	Al 396.153Radial†	333772.0	332134.3	61577 µg/L	61577 ppb	05:37:12
2	Ca 317.933Radial†	211408.8	209770.8	11685 µg/L	11685 ppb	05:37:14
2	Fe 238.204 Radial†	1476507.5	1468835.0	90530 µg/L	90530 ppb	05:37:12
2	K 766.490 Radial†	21846.9	20190.8	7374.2 µg/L	7374.2 ppb	05:37:14
2	Mg 279.077 IEC†	28351.0	28015.8	10361 µg/L	10361 ppb	05:37:14
2	Na 589.592 Radial†	58954.9	57363.6	7830.0 µg/L	7830.0 ppb	05:37:14
2	Sr 421.552†	45202.7	45107.6	93.685 µg/L	93.685 ppb	05:37:14
2	Sc 361.383	1762322.5	1762322.5	102.57 %		05:37:46
2	Y 371.029	1207394.8	1207394.8	117.60 %		05:37:46
2	Ag 328.068†	3639.4	-543.0	-2.8256 µg/L	-2.8256 ppb	05:37:46
2	As 188.979†	11.7	31.8	32.086 µg/L	32.086 ppb	05:38:06
2	B 249.677†	4601.2	980.2	14.376 µg/L	14.376 ppb	05:37:46
2	Ba 233.527†	95900.4	93636.2	376.23 µg/L	376.23 ppb	05:37:46
2	Be 313.107†	32372.9	32627.4	8.7542 µg/L	8.7542 ppb	05:37:46
2	Cd 226.502†	1390.6	1474.0	-0.2506 µg/L	-0.2506 ppb	05:38:06
2	Co 228.616†	1712.9	1860.3	18.641 µg/L	18.641 ppb	05:38:06
2	Cr 267.716†	29847.6	28922.0	229.32 µg/L	229.32 ppb	05:37:46
2	Cu 324.752†	9535.0	6324.2	37.703 µg/L	37.703 ppb	05:37:46
2	Mn 257.610†	1970644.7	1921089.0	2376.3 µg/L	2376.3 ppb	05:37:46
2	Mo 202.031†	34.5	53.7	5.3833 µg/L	5.3833 ppb	05:38:06
2	Ni 231.604†	11471.1	11260.6	129.66 µg/L	129.66 ppb	05:38:06
2	P 214.914†	1960.3	1929.2	364.44 µg/L	364.44 ppb	05:38:06
2	Pb 220.353†	1113.8	999.6	60.071 µg/L	60.071 ppb	05:38:06

2	S 181.975 Axial†	617.7	497.2	369.24 µg/L	369.24 ppb	05:38:06
2	Sb 206.836†	106.6	23.1	-2.0076 µg/L	-2.0076 ppb	05:38:06
2	Se 196.026†	-63.1	-76.8	3.23 µg/L	3.23 ppb	05:38:06
2	SiO2†	862619.9	839256.1	82030 µg/L	82030 ppb	05:37:46
2	Si 251.611†	2641945.6	2574990.1	37963 µg/L	37963 ppb	05:37:46
2	Sn 189.927†	53.4	53.2	11.117 µg/L	11.117 ppb	05:38:06
2	Ti 334.940†	2540550.7	2476016.8	2312.8 µg/L	2312.8 ppb	05:37:46
2	Tl 190.801†	-405.3	-278.5	-4.2035 µg/L	-4.2035 ppb	05:38:06
2	U 409.014†	-7800.5	-7335.4	-427.89 µg/L	-427.89 ppb	05:37:46
2	V 292.402†	22214.3	21254.6	92.692 µg/L	92.692 ppb	05:37:46
2	Zn 213.857†	66241.9	64019.7	351.29 µg/L	351.29 ppb	05:37:46
3	Sc RADIAL	144910.8	144910.8	99.3 %		05:37:18
3	Al 396.153Radial†	330747.8	333136.6	61763 µg/L	61763 ppb	05:37:16
3	Ca 317.933Radial†	207109.3	208005.0	11587 µg/L	11587 ppb	05:37:18
3	Fe 238.204 Radial†	1456451.2	1466544.0	90389 µg/L	90389 ppb	05:37:16
3	K 766.490 Radial†	21415.1	20020.9	7312.0 µg/L	7312.0 ppb	05:37:18
3	Mg 279.077 IEC†	27500.6	27503.2	10170 µg/L	10170 ppb	05:37:18
3	Na 589.592 Radial†	57984.6	57101.6	7794.2 µg/L	7794.2 ppb	05:37:18
3	Sr 421.552†	44659.0	45108.3	93.687 µg/L	93.687 ppb	05:37:18
3	Sc 361.383	1764513.1	1764513.1	102.69 %		05:38:09
3	Y 371.029	1209241.6	1209241.6	117.78 %		05:38:09
3	Ag 328.068†	3846.2	-346.1	-2.0776 µg/L	-2.0776 ppb	05:38:09
3	As 188.979†	15.9	35.9	33.291 µg/L	33.291 ppb	05:38:29
3	B 249.677†	4518.9	894.4	13.113 µg/L	13.113 ppb	05:38:09
3	Ba 233.527†	96493.5	94097.7	378.09 µg/L	378.09 ppb	05:38:09
3	Be 313.107†	32272.0	32490.0	8.7209 µg/L	8.7209 ppb	05:38:09
3	Cd 226.502†	1364.8	1447.2	-0.4036 µg/L	-0.4036 ppb	05:38:29
3	Co 228.616†	1690.3	1836.3	18.354 µg/L	18.354 ppb	05:38:29
3	Cr 267.716†	30056.7	29089.5	230.62 µg/L	230.62 ppb	05:38:09
3	Cu 324.752†	9579.3	6355.8	37.811 µg/L	37.811 ppb	05:38:09
3	Mn 257.610†	1975577.4	1923507.0	2379.3 µg/L	2379.3 ppb	05:38:09
3	Mo 202.031†	30.0	49.3	5.2464 µg/L	5.2464 ppb	05:38:29
3	Ni 231.604†	11460.1	11235.9	129.37 µg/L	129.37 ppb	05:38:29
3	P 214.914†	1959.3	1925.8	363.86 µg/L	363.86 ppb	05:38:29
3	Pb 220.353†	1127.4	1011.4	60.740 µg/L	60.740 ppb	05:38:29
3	S 181.975 Axial†	598.4	477.7	354.71 µg/L	354.71 ppb	05:38:29
3	Sb 206.836†	111.3	27.5	-1.5001 µg/L	-1.5001 ppb	05:38:29
3	Se 196.026†	-78.1	-91.4	-2.07 µg/L	-2.07 ppb	05:38:29
3	SiO2†	863926.6	839484.4	82053 µg/L	82053 ppb	05:38:09
3	Si 251.611†	2647092.5	2576804.2	37989 µg/L	37989 ppb	05:38:09
3	Sn 189.927†	63.3	62.7	11.718 µg/L	11.718 ppb	05:38:29
3	Ti 334.940†	2546040.1	2478287.1	2314.9 µg/L	2314.9 ppb	05:38:09
3	Tl 190.801†	-396.2	-269.1	-3.0231 µg/L	-3.0231 ppb	05:38:29
3	U 409.014†	-7573.2	-7104.6	-414.35 µg/L	-414.35 ppb	05:38:09
3	V 292.402†	22232.9	21245.8	92.676 µg/L	92.676 ppb	05:38:09
3	Zn 213.857†	66418.9	64111.8	351.83 µg/L	351.83 ppb	05:38:09

Mean Data: 248247007|959150|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1756691.6	102.24 %	%	0.681			0.67%
Sc RADIAL	146692.1	101 %	%	1.2			1.22%
Y 371.029	1204016.9	117.27 %	%	0.731			0.62%
Ag 328.068†	-410.3	-2.3180 µg/L	µg/L	0.43986	-2.3180 ppb	0.43986	18.98%
Al 396.153Radial†	331242.4	61412 µg/L	µg/L	456.9	61412 ppb	456.9	0.74%
As 188.979†	28.0	30.858 µg/L	µg/L	3.2263	30.858 ppb	3.2263	10.46%
B 249.677†	885.9	12.985 µg/L	µg/L	1.4595	12.985 ppb	1.4595	11.24%
Ba 233.527†	93831.1	377.02 µg/L	µg/L	0.962	377.02 ppb	0.962	0.26%
Be 313.107†	32539.7	8.7328 µg/L	µg/L	0.01855	8.7328 ppb	0.01855	0.21%
Ca 317.933Radial†	209000.5	11642 µg/L	µg/L	50.4	11642 ppb	50.4	0.43%
Cd 226.502†	1466.1	-0.2694 µg/L	µg/L	0.12587	-0.2694 ppb	0.12587	46.72%
Co 228.616†	1866.5	18.733 µg/L	µg/L	0.4326	18.733 ppb	0.4326	2.31%
Cr 267.716†	28954.0	229.56 µg/L	µg/L	0.967	229.56 ppb	0.967	0.42%
Cu 324.752†	6282.8	37.504 µg/L	µg/L	0.4404	37.504 ppb	0.4404	1.17%
Fe 238.204 Radial†	1464108.4	90239 µg/L	µg/L	388.8	90239 ppb	388.8	0.43%
K 766.490 Radial†	20050.6	7322.9 µg/L	µg/L	46.81	7322.9 ppb	46.81	0.64%
Mg 279.077 IEC†	27802.9	10282 µg/L	µg/L	99.6	10282 ppb	99.6	0.97%
Mn 257.610†	1921014.3	2376.2 µg/L	µg/L	3.13	2376.2 ppb	3.13	0.13%
Mo 202.031†	45.2	5.1209 µg/L	µg/L	0.34281	5.1209 ppb	0.34281	6.69%
Na 589.592 Radial†	57262.8	7816.3 µg/L	µg/L	19.26	7816.3 ppb	19.26	0.25%

Ni 231.604†	11302.0	130.13 µg/L	1.082	130.13 ppb	1.082	0.83%
P 214.914†	1926.3	363.98 µg/L	0.418	363.98 ppb	0.418	0.11%
Pb 220.353†	1010.6	60.678 µg/L	0.5785	60.678 ppb	0.5785	0.95%
S 181.975 Axial†	496.2	368.51 µg/L	13.453	368.51 ppb	13.453	3.65%
Sb 206.836†	26.8	-1.5724 µg/L	0.40394	-1.5724 ppb	0.40394	25.69%
Se 196.026†	-82.0	1.26 µg/L	2.903	1.26 ppb	2.903	229.84%
SiO2†	838880.5	81994 µg/L	83.7	81994 ppb	83.7	0.10%
Si 251.611†	2574242.7	37952 µg/L	44.3	37952 ppb	44.3	0.12%
Sn 189.927†	57.3	11.374 µg/L	0.3095	11.374 ppb	0.3095	2.72%
Sr 421.552†	45055.1	93.576 µg/L	0.1906	93.576 ppb	0.1906	0.20%
Ti 334.940†	2476292.7	2313.1 µg/L	1.75	2313.1 ppb	1.75	0.08%
Tl 190.801†	-276.5	-3.9570 µg/L	0.83834	-3.9570 ppb	0.83834	21.19%
U 409.014†	-7193.3	-419.50 µg/L	7.325	-419.50 ppb	7.325	1.75%
Concentration less than lower limit for U 409.014.						
V 292.402†	21305.0	92.973 µg/L	0.5006	92.973 ppb	0.5006	0.54%
Zn 213.857†	64026.5	351.35 µg/L	0.447	351.35 ppb	0.447	0.13%

Sequence No.: 20

Sample ID: 248247008|959150|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 316

Date Collected: 4/1/2010 5:38:37

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248247008|959150|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	147153.8	147153.8	101 %		05:39:09
1	Al 396.153Radial†	290515.6	288162.2	53425 µg/L	53425 ppb	05:39:07
1	Ca 317.933Radial†	283008.9	280094.2	15602 µg/L	15602 ppb	05:39:09
1	Fe 238.204 Radial†	1515262.2	1502509.7	92605 µg/L	92605 ppb	05:39:07
1	K 766.490 Radial†	23235.9	21497.8	7854.8 µg/L	7854.8 ppb	05:39:09
1	Mg 279.077 IEC†	28027.9	27604.1	10206 µg/L	10206 ppb	05:39:09
1	Na 589.592 Radial†	10178.9	8803.4	1195.7 µg/L	1195.7 ppb	05:39:09
1	Sr 421.552†	48445.2	48177.5	100.04 µg/L	100.04 ppb	05:39:09
1	Sc 361.383	1766211.9	1766211.9	102.79 %		05:39:36
1	Y 371.029	1294691.1	1294691.1	126.10 %		05:39:36
1	Ag 328.068†	4039.8	-161.4	-1.6497 µg/L	-1.6497 ppb	05:39:36
1	As 188.979†	31.0	50.5	36.969 µg/L	36.969 ppb	05:39:56
1	B 249.677†	4622.9	991.4	14.553 µg/L	14.553 ppb	05:39:36
1	Ba 233.527†	106787.9	104022.0	418.05 µg/L	418.05 ppb	05:39:36
1	Be 313.107†	34649.3	34772.5	9.3343 µg/L	9.3343 ppb	05:39:36
1	Cd 226.502†	1458.9	1537.4	-0.1017 µg/L	-0.1017 ppb	05:39:56
1	Co 228.616†	1456.2	1607.0	15.424 µg/L	15.424 ppb	05:39:56
1	Cr 267.716†	12611.9	12090.6	97.620 µg/L	97.620 ppb	05:39:56
1	Cu 324.752†	9501.3	6270.9	37.781 µg/L	37.781 ppb	05:39:36
1	Mn 257.610†	1821523.9	1771789.3	2191.6 µg/L	2191.6 ppb	05:39:36
1	Mo 202.031†	92.6	110.2	7.1191 µg/L	7.1191 ppb	05:39:56
1	Ni 231.604†	6164.0	6073.0	69.926 µg/L	69.926 ppb	05:39:56
1	P 214.914†	2239.4	2196.5	418.40 µg/L	418.40 ppb	05:39:56
1	Pb 220.353†	1227.9	1108.1	66.128 µg/L	66.128 ppb	05:39:56
1	S 181.975 Axial†	662.6	539.5	400.69 µg/L	400.69 ppb	05:39:56
1	Sb 206.836†	97.2	13.7	-1.1068 µg/L	-1.1068 ppb	05:39:56
1	Se 196.026†	-63.1	-76.6	4.00 µg/L	4.00 ppb	05:39:56
1	SiO2†	813240.8	789366.8	77154 µg/L	77154 ppb	05:39:36
1	Si 251.611†	2494969.4	2426335.6	35771 µg/L	35771 ppb	05:39:36
1	Sn 189.927†	78.0	77.0	14.017 µg/L	14.017 ppb	05:39:56
1	Ti 334.940†	3007468.4	2924792.2	2732.3 µg/L	2732.3 ppb	05:39:36
1	Tl 190.801†	-433.3	-304.8	-3.7799 µg/L	-3.7799 ppb	05:39:56
1	U 409.014†	-8047.3	-7558.8	-443.01 µg/L	-443.01 ppb	05:39:36
1	V 292.402†	19620.0	18683.0	78.981 µg/L	78.981 ppb	05:39:36
1	Zn 213.857†	87317.1	84380.0	465.93 µg/L	465.93 ppb	05:39:36
2	Sc RADIAL	145691.4	145691.4	99.8 %		05:39:13
2	Al 396.153Radial†	291674.8	292215.3	54176 µg/L	54176 ppb	05:39:11
2	Ca 317.933Radial†	280543.1	280441.6	15622 µg/L	15622 ppb	05:39:13
2	Fe 238.204 Radial†	1517199.1	1519533.4	93655 µg/L	93655 ppb	05:39:11
2	K 766.490 Radial†	23246.6	21739.9	7943.3 µg/L	7943.3 ppb	05:39:13
2	Mg 279.077 IEC†	27745.4	27600.1	10203 µg/L	10203 ppb	05:39:13
2	Na 589.592 Radial†	10138.3	8864.1	1203.9 µg/L	1203.9 ppb	05:39:13
2	Sr 421.552†	48424.9	48639.4	101.00 µg/L	101.00 ppb	05:39:13
2	Sc 361.383	1744869.3	1744869.3	101.55 %		05:39:59
2	Y 371.029	1278950.6	1278950.6	124.57 %		05:39:59
2	Ag 328.068†	4039.6	-113.5	-1.4963 µg/L	-1.4963 ppb	05:39:59
2	As 188.979†	29.8	49.7	36.947 µg/L	36.947 ppb	05:40:19
2	B 249.677†	4720.0	1142.0	16.774 µg/L	16.774 ppb	05:39:59
2	Ba 233.527†	105470.3	103995.1	417.92 µg/L	417.92 ppb	05:39:59
2	Be 313.107†	34224.7	34766.6	9.3312 µg/L	9.3312 ppb	05:39:59
2	Cd 226.502†	1474.6	1570.3	-0.0063 µg/L	-0.0063 ppb	05:40:19
2	Co 228.616†	1447.4	1615.6	15.477 µg/L	15.477 ppb	05:40:19
2	Cr 267.716†	12585.8	12215.0	98.634 µg/L	98.634 ppb	05:40:19
2	Cu 324.752†	9369.9	6254.5	37.866 µg/L	37.866 ppb	05:39:59
2	Mn 257.610†	1797809.4	1770111.9	2189.5 µg/L	2189.5 ppb	05:39:59
2	Mo 202.031†	113.5	131.8	7.7965 µg/L	7.7965 ppb	05:40:19
2	Ni 231.604†	6158.1	6140.5	70.704 µg/L	70.704 ppb	05:40:19
2	P 214.914†	2254.7	2238.2	426.76 µg/L	426.76 ppb	05:40:19
2	Pb 220.353†	1261.2	1155.5	68.794 µg/L	68.794 ppb	05:40:19

2	S 181.975 Axial†	685.8	570.3	423.52 µg/L	423.52 ppb	05:40:19
2	Sb 206.836†	105.5	23.1	-0.0219 µg/L	-0.0219 ppb	05:40:19
2	Se 196.026†	-70.0	-84.2	1.62 µg/L	1.62 ppb	05:40:19
2	SiO2†	803098.4	789056.3	77124 µg/L	77124 ppb	05:39:59
2	Si 251.611†	2461349.6	2422917.6	35721 µg/L	35721 ppb	05:39:59
2	Sn 189.927†	72.5	72.5	13.733 µg/L	13.733 ppb	05:40:19
2	Ti 334.940†	2971178.8	2924843.6	2732.3 µg/L	2732.3 ppb	05:39:59
2	Tl 190.801†	-446.1	-322.6	-5.9854 µg/L	-5.9854 ppb	05:40:19
2	U 409.014†	-8037.7	-7645.0	-448.37 µg/L	-448.37 ppb	05:39:59
2	V 292.402†	19185.1	18488.3	77.928 µg/L	77.928 ppb	05:39:59
2	Zn 213.857†	85996.5	84118.6	464.36 µg/L	464.36 ppb	05:39:59
3	Sc RADIAL	145896.7	145896.7	100.0 %		05:39:17
3	Al 396.153Radial†	291849.6	291978.9	54132 µg/L	54132 ppb	05:39:15
3	Ca 317.933Radial†	280384.7	279887.6	15591 µg/L	15591 ppb	05:39:17
3	Fe 238.204 Radial†	1519430.5	1519626.5	93660 µg/L	93660 ppb	05:39:15
3	K 766.490 Radial†	23135.9	21596.4	7890.8 µg/L	7890.8 ppb	05:39:17
3	Mg 279.077 IEC†	27720.4	27535.9	10179 µg/L	10179 ppb	05:39:17
3	Na 589.592 Radial†	9955.8	8667.2	1177.0 µg/L	1177.0 ppb	05:39:17
3	Sr 421.552†	48400.6	48546.9	100.80 µg/L	100.80 ppb	05:39:17
3	Sc 361.383	1745470.8	1745470.8	101.59 %		05:40:22
3	Y 371.029	1280326.3	1280326.3	124.70 %		05:40:22
3	Ag 328.068†	3711.3	-438.1	-2.6914 µg/L	-2.6914 ppb	05:40:22
3	As 188.979†	28.9	48.8	36.688 µg/L	36.688 ppb	05:40:42
3	B 249.677†	4709.5	1130.0	16.596 µg/L	16.596 ppb	05:40:22
3	Ba 233.527†	105330.3	103821.6	417.23 µg/L	417.23 ppb	05:40:22
3	Be 313.107†	34353.5	34881.8	9.3615 µg/L	9.3615 ppb	05:40:22
3	Cd 226.502†	1445.7	1541.3	-0.1877 µg/L	-0.1877 ppb	05:40:42
3	Co 228.616†	1469.3	1636.6	15.735 µg/L	15.735 ppb	05:40:42
3	Cr 267.716†	12560.5	12185.8	98.409 µg/L	98.409 ppb	05:40:42
3	Cu 324.752†	9138.6	6023.7	36.966 µg/L	36.966 ppb	05:40:22
3	Mn 257.610†	1797971.0	1769660.8	2188.9 µg/L	2188.9 ppb	05:40:22
3	Mo 202.031†	107.7	126.1	7.6286 µg/L	7.6286 ppb	05:40:42
3	Ni 231.604†	6208.1	6187.7	71.246 µg/L	71.246 ppb	05:40:42
3	P 214.914†	2233.9	2217.0	422.23 µg/L	422.23 ppb	05:40:42
3	Pb 220.353†	1280.0	1173.7	69.806 µg/L	69.806 ppb	05:40:42
3	S 181.975 Axial†	683.0	567.3	421.26 µg/L	421.26 ppb	05:40:42
3	Sb 206.836†	69.1	-12.8	-4.2860 µg/L	-4.2860 ppb	05:40:42
3	Se 196.026†	-79.5	-93.6	-1.76 µg/L	-1.76 ppb	05:40:42
3	SiO2†	803190.0	788873.9	77106 µg/L	77106 ppb	05:40:22
3	Si 251.611†	2461138.2	2421874.2	35705 µg/L	35705 ppb	05:40:22
3	Sn 189.927†	81.4	81.3	14.285 µg/L	14.285 ppb	05:40:42
3	Ti 334.940†	2972888.1	2925517.8	2732.9 µg/L	2732.9 ppb	05:40:22
3	Tl 190.801†	-427.2	-303.8	-3.6631 µg/L	-3.6631 ppb	05:40:42
3	U 409.014†	-8101.9	-7705.5	-451.86 µg/L	-451.86 ppb	05:40:22
3	V 292.402†	19370.5	18664.2	78.780 µg/L	78.780 ppb	05:40:22
3	Zn 213.857†	85887.6	83982.2	463.59 µg/L	463.59 ppb	05:40:22

Mean Data: 248247008|959150|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1752184.0	101.98 %	0.707			0.69%
Sc RADIAL	146247.3	100 %	0.5			0.54%
Y 371.029	1284656.0	125.13 %	0.849			0.68%
Ag 328.068†	-237.6	-1.9458 µg/L	0.65025	-1.9458 ppb	0.65025	33.42%
Al 396.153Radial†	290785.5	53911 µg/L	421.7	53911 ppb	421.7	0.78%
As 188.979†	49.7	36.868 µg/L	0.1563	36.868 ppb	0.1563	0.42%
B 249.677†	1087.8	15.974 µg/L	1.2341	15.974 ppb	1.2341	7.73%
Ba 233.527†	103946.2	417.73 µg/L	0.443	417.73 ppb	0.443	0.11%
Be 313.107†	34807.0	9.3423 µg/L	0.01666	9.3423 ppb	0.01666	0.18%
Ca 317.933Radial†	280141.1	15605 µg/L	15.6	15605 ppb	15.6	0.10%
Cd 226.502†	1549.7	-0.0985 µg/L	0.09074	-0.0985 ppb	0.09074	92.09%
Co 228.616†	1619.8	15.545 µg/L	0.1661	15.545 ppb	0.1661	1.07%
Cr 267.716†	12163.8	98.221 µg/L	0.5327	98.221 ppb	0.5327	0.54%
Cu 324.752†	6183.1	37.538 µg/L	0.4967	37.538 ppb	0.4967	1.32%
Fe 238.204 Radial†	1513889.9	93307 µg/L	607.4	93307 ppb	607.4	0.65%
K 766.490 Radial†	21611.4	7896.3 µg/L	44.49	7896.3 ppb	44.49	0.56%
Mg 279.077 IEC†	27580.0	10196 µg/L	14.5	10196 ppb	14.5	0.14%
Mn 257.610†	1770520.7	2190.0 µg/L	1.39	2190.0 ppb	1.39	0.06%
Mo 202.031†	122.7	7.5147 µg/L	0.35272	7.5147 ppb	0.35272	4.69%
Na 589.592 Radial†	8778.3	1192.2 µg/L	13.76	1192.2 ppb	13.76	1.15%

Ni 231.604†	6133.7	70.625 µg/L	0.6637	70.625 ppb	0.6637	0.94%
P 214.914†	2217.3	422.46 µg/L	4.185	422.46 ppb	4.185	0.99%
Pb 220.353†	1145.8	68.243 µg/L	1.8997	68.243 ppb	1.8997	2.78%
S 181.975 Axial†	559.0	415.16 µg/L	12.582	415.16 ppb	12.582	3.03%
Sb 206.836†	8.0	-1.8049 µg/L	2.21613	-1.8049 ppb	2.21613	122.78%
Se 196.026†	-84.8	1.29 µg/L	2.894	1.29 ppb	2.894	225.11%
SiO2†	789099.0	77128 µg/L	24.4	77128 ppb	24.4	0.03%
Si 251.611†	2423709.2	35732 µg/L	34.4	35732 ppb	34.4	0.10%
Sn 189.927†	76.9	14.011 µg/L	0.2761	14.011 ppb	0.2761	1.97%
Sr 421.552†	48454.6	100.61 µg/L	0.508	100.61 ppb	0.508	0.50%
Ti 334.940†	2925051.2	2732.5 µg/L	0.38	2732.5 ppb	0.38	0.01%
Tl 190.801†	-310.4	-4.4762 µg/L	1.30836	-4.4762 ppb	1.30836	29.23%
U 409.014†	-7636.4	-447.75 µg/L	4.453	-447.75 ppb	4.453	0.99%
Concentration less than lower limit for U 409.014.						
V 292.402†	18611.9	78.563 µg/L	0.5592	78.563 ppb	0.5592	0.71%
Zn 213.857†	84160.2	464.63 µg/L	1.194	464.63 ppb	1.194	0.26%

Sequence No.: 25

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 5:48:46

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	143412.4	143412.4	98.3 %		05:49:20
1	Al 396.153Radial†	26401.8	26928.4	4970.4 µg/L	4970.4 ppb	05:49:20
1	Ca 317.933Radial†	85354.2	86291.8	4806.8 µg/L	4806.8 ppb	05:49:20
1	Fe 238.204 Radial†	76673.8	77871.6	4799.5 µg/L	4799.5 ppb	05:49:20
1	K 766.490 Radial†	14895.1	13611.7	4979.5 µg/L	4979.5 ppb	05:49:20
1	Mg 279.077 IEC†	13059.8	13098.4	4887.8 µg/L	4887.8 ppb	05:49:20
1	Na 589.592 Radial†	71028.8	70984.7	9692.9 µg/L	9692.9 ppb	05:49:20
1	Sr 421.552†	229178.2	233336.3	485.05 µg/L	485.05 ppb	05:49:18
1	Sc 361.383	1730211.6	1730211.6	100.70 %		05:49:47
1	Y 371.029	1019921.2	1019921.2	99.341 %		05:49:47
1	Ag 328.068†	132371.2	127362.2	477.57 µg/L	477.57 ppb	05:49:47
1	As 188.979†	1580.3	1589.7	487.69 µg/L	487.69 ppb	05:50:07
1	B 249.677†	35992.5	32237.1	473.77 µg/L	473.77 ppb	05:49:47
1	Ba 233.527†	119122.3	118432.3	477.63 µg/L	477.63 ppb	05:49:47
1	Be 313.107†	1783529.6	1772230.7	482.68 µg/L	482.68 ppb	05:49:47
1	Cd 226.502†	76519.0	76106.7	475.09 µg/L	475.09 ppb	05:49:47
1	Co 228.616†	39087.0	39006.3	481.53 µg/L	481.53 ppb	05:49:47
1	Cr 267.716†	61067.6	60465.7	473.44 µg/L	473.44 ppb	05:49:47
1	Cu 324.752†	126249.6	122402.2	477.15 µg/L	477.15 ppb	05:49:47
1	Mn 257.610†	390842.1	387895.4	479.74 µg/L	479.74 ppb	05:49:47
1	Mo 202.031†	16272.1	16179.3	475.93 µg/L	475.93 ppb	05:50:07
1	Ni 231.604†	41554.3	41342.8	476.03 µg/L	476.03 ppb	05:49:47
1	P 214.914†	11229.3	11169.4	2380.7 µg/L	2380.7 ppb	05:50:07
1	Pb 220.353†	8733.4	8586.5	480.84 µg/L	480.84 ppb	05:50:07
1	S 181.975 Axial†	1425.4	1310.4	977.11 µg/L	977.11 ppb	05:50:07
1	Sb 206.836†	4105.8	3996.5	476.20 µg/L	476.20 ppb	05:50:07
1	Se 196.026†	1349.6	1324.9	481 µg/L	481 ppb	05:50:07
1	SiO2†	54887.0	52731.2	5133.6 µg/L	5133.6 ppb	05:49:47
1	Si 251.611†	166441.0	164450.6	2415.0 µg/L	2415.0 ppb	05:49:47
1	Sn 189.927†	7680.6	7628.5	477.17 µg/L	477.17 ppb	05:50:07
1	Ti 334.940†	515593.8	511067.1	476.86 µg/L	476.86 ppb	05:49:47
1	Tl 190.801†	3810.3	3900.6	486.41 µg/L	486.41 ppb	05:50:07
1	U 409.014†	7255.0	7474.6	465.99 µg/L	465.99 ppb	05:49:47
1	V 292.402†	98177.3	97092.9	479.95 µg/L	479.95 ppb	05:49:47
1	Zn 213.857†	86203.6	85041.6	473.98 µg/L	473.98 ppb	05:49:47
2	Sc RADIAL	142196.1	142196.1	97.4 %		05:49:24
2	Al 396.153Radial†	26051.6	26798.8	4946.2 µg/L	4946.2 ppb	05:49:24
2	Ca 317.933Radial†	84815.3	86481.7	4817.4 µg/L	4817.4 ppb	05:49:24
2	Fe 238.204 Radial†	76151.2	78002.6	4807.6 µg/L	4807.6 ppb	05:49:24
2	K 766.490 Radial†	14651.7	13491.6	4935.5 µg/L	4935.5 ppb	05:49:24
2	Mg 279.077 IEC†	12902.3	13050.4	4870.0 µg/L	4870.0 ppb	05:49:24
2	Na 589.592 Radial†	70951.4	71523.6	9766.6 µg/L	9766.6 ppb	05:49:24
2	Sr 421.552†	226963.0	233057.6	484.48 µg/L	484.48 ppb	05:49:22
2	Sc 361.383	1711422.3	1711422.3	99.605 %		05:50:10
2	Y 371.029	1009637.8	1009637.8	98.339 %		05:50:10
2	Ag 328.068†	130850.2	127278.3	477.22 µg/L	477.22 ppb	05:50:10
2	As 188.979†	1598.7	1625.4	498.49 µg/L	498.49 ppb	05:50:30
2	B 249.677†	35154.5	31788.2	467.16 µg/L	467.16 ppb	05:50:10
2	Ba 233.527†	117404.2	118006.2	475.92 µg/L	475.92 ppb	05:50:10
2	Be 313.107†	1756284.2	1764322.3	480.52 µg/L	480.52 ppb	05:50:10
2	Cd 226.502†	75197.1	75613.9	472.01 µg/L	472.01 ppb	05:50:10
2	Co 228.616†	38365.9	38708.5	477.85 µg/L	477.85 ppb	05:50:10
2	Cr 267.716†	60355.4	60416.4	473.07 µg/L	473.07 ppb	05:50:10
2	Cu 324.752†	124533.5	122055.7	475.79 µg/L	475.79 ppb	05:50:10
2	Mn 257.610†	385706.8	387001.0	478.63 µg/L	478.63 ppb	05:50:10
2	Mo 202.031†	16262.3	16346.9	480.85 µg/L	480.85 ppb	05:50:30
2	Ni 231.604†	41042.2	41281.7	475.33 µg/L	475.33 ppb	05:50:10
2	P 214.914†	11266.0	11328.7	2414.8 µg/L	2414.8 ppb	05:50:30
2	Pb 220.353†	8729.0	8677.3	485.93 µg/L	485.93 ppb	05:50:30

2	S 181.975 Axial†	1419.3	1319.9	984.19 µg/L	984.19 ppb	05:50:30
2	Sb 206.836†	4110.4	4045.9	482.15 µg/L	482.15 ppb	05:50:30
2	Se 196.026†	1329.1	1319.1	479 µg/L	479 ppb	05:50:30
2	SiO2†	54209.3	52649.2	5125.4 µg/L	5125.4 ppb	05:50:10
2	Si 251.611†	164109.6	163924.7	2407.1 µg/L	2407.1 ppb	05:50:10
2	Sn 189.927†	7715.7	7747.5	484.58 µg/L	484.58 ppb	05:50:30
2	Ti 334.940†	508781.4	509849.0	475.74 µg/L	475.74 ppb	05:50:10
2	Tl 190.801†	3813.9	3945.7	491.95 µg/L	491.95 ppb	05:50:30
2	U 409.014†	6854.2	7151.3	447.01 µg/L	447.01 ppb	05:50:10
2	V 292.402†	96859.0	96839.8	478.75 µg/L	478.75 ppb	05:50:10
2	Zn 213.857†	84794.5	84566.7	471.31 µg/L	471.31 ppb	05:50:10
3	Sc RADIAL	141335.7	141335.7	96.9 %		05:49:28
3	Al 396.153Radial†	26120.4	27032.6	4989.8 µg/L	4989.8 ppb	05:49:28
3	Ca 317.933Radial†	84304.0	86483.7	4817.5 µg/L	4817.5 ppb	05:49:28
3	Fe 238.204 Radial†	75608.4	77917.9	4802.4 µg/L	4802.4 ppb	05:49:28
3	K 766.490 Radial†	14536.3	13464.0	4925.4 µg/L	4925.4 ppb	05:49:28
3	Mg 279.077 IEC†	12814.7	13040.5	4866.2 µg/L	4866.2 ppb	05:49:28
3	Na 589.592 Radial†	70539.5	71541.6	9769.1 µg/L	9769.1 ppb	05:49:28
3	Sr 421.552†	227249.7	234771.7	488.04 µg/L	488.04 ppb	05:49:26
3	Sc 361.383	1733201.8	1733201.8	100.87 %		05:50:33
3	Y 371.029	1022663.1	1022663.1	99.608 %		05:50:33
3	Ag 328.068†	132633.2	127395.2	477.67 µg/L	477.67 ppb	05:50:33
3	As 188.979†	1582.5	1589.2	487.52 µg/L	487.52 ppb	05:50:53
3	B 249.677†	36094.1	32276.2	474.35 µg/L	474.35 ppb	05:50:33
3	Ba 233.527†	119057.4	118163.9	476.55 µg/L	476.55 ppb	05:50:33
3	Be 313.107†	1787762.0	1773370.8	482.99 µg/L	482.99 ppb	05:50:33
3	Cd 226.502†	76586.0	76042.1	474.69 µg/L	474.69 ppb	05:50:33
3	Co 228.616†	38990.5	38843.7	479.52 µg/L	479.52 ppb	05:50:33
3	Cr 267.716†	61083.4	60376.7	472.75 µg/L	472.75 ppb	05:50:33
3	Cu 324.752†	126318.2	122253.9	476.57 µg/L	476.57 ppb	05:50:33
3	Mn 257.610†	391061.7	387443.6	479.18 µg/L	479.18 ppb	05:50:33
3	Mo 202.031†	16268.9	16148.3	475.02 µg/L	475.02 ppb	05:50:53
3	Ni 231.604†	41668.5	41384.8	476.52 µg/L	476.52 ppb	05:50:33
3	P 214.914†	11230.7	11151.6	2376.9 µg/L	2376.9 ppb	05:50:53
3	Pb 220.353†	8738.5	8576.5	480.29 µg/L	480.29 ppb	05:50:53
3	S 181.975 Axial†	1428.3	1310.9	977.43 µg/L	977.43 ppb	05:50:53
3	Sb 206.836†	4099.1	3982.8	474.57 µg/L	474.57 ppb	05:50:53
3	Se 196.026†	1336.9	1310.1	476 µg/L	476 ppb	05:50:53
3	SiO2†	55101.1	52849.4	5145.2 µg/L	5145.2 ppb	05:50:33
3	Si 251.611†	166788.7	164510.2	2415.9 µg/L	2415.9 ppb	05:50:33
3	Sn 189.927†	7690.0	7624.6	476.92 µg/L	476.92 ppb	05:50:53
3	Ti 334.940†	516020.5	510606.7	476.44 µg/L	476.44 ppb	05:50:33
3	Tl 190.801†	3800.5	3884.3	484.40 µg/L	484.40 ppb	05:50:53
3	U 409.014†	7160.9	7368.9	459.75 µg/L	459.75 ppb	05:50:33
3	V 292.402†	98149.4	96897.1	478.98 µg/L	478.98 ppb	05:50:33
3	Zn 213.857†	86284.5	84974.1	473.60 µg/L	473.60 ppb	05:50:33

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1724945.2	100.39 %	0.687			0.68%
Sc RADIAL	142314.7	97.5 %	0.72			0.73%
Y 371.029	1017407.4	99.096 %	0.6688			0.67%
Ag 328.068†	127345.2	477.49 µg/L	0.237	477.49 ppb	0.237	0.05%
QC value within limits for Ag 328.068 Recovery = 95.50%						
Al 396.153Radial†	26919.9	4968.8 µg/L	21.86	4968.8 ppb	21.86	0.44%
QC value within limits for Al 396.153Radial Recovery = 99.38%						
As 188.979†	1601.5	491.23 µg/L	6.288	491.23 ppb	6.288	1.28%
QC value within limits for As 188.979 Recovery = 98.25%						
B 249.677†	32100.5	471.76 µg/L	3.994	471.76 ppb	3.994	0.85%
QC value within limits for B 249.677 Recovery = 94.35%						
Ba 233.527†	118200.8	476.70 µg/L	0.868	476.70 ppb	0.868	0.18%
QC value within limits for Ba 233.527 Recovery = 95.34%						
Be 313.107†	1769974.6	482.06 µg/L	1.344	482.06 ppb	1.344	0.28%
QC value within limits for Be 313.107 Recovery = 96.41%						
Ca 317.933Radial†	86419.1	4813.9 µg/L	6.14	4813.9 ppb	6.14	0.13%
QC value within limits for Ca 317.933Radial Recovery = 96.28%						
Cd 226.502†	75920.9	473.93 µg/L	1.674	473.93 ppb	1.674	0.35%
QC value within limits for Cd 226.502 Recovery = 94.79%						
Co 228.616†	38852.9	479.64 µg/L	1.841	479.64 ppb	1.841	0.38%

QC value within limits for Co 228.616	Recovery = 95.93%			
Cr 267.716†	60419.6	473.09 µg/L	0.346	473.09 ppb
QC value within limits for Cr 267.716	Recovery = 94.62%			
Cu 324.752†	122237.3	476.51 µg/L	0.684	476.51 ppb
QC value within limits for Cu 324.752	Recovery = 95.30%			
Fe 238.204 Radial†	77930.7	4803.2 µg/L	4.09	4803.2 ppb
QC value within limits for Fe 238.204 Radial	Recovery = 96.06%			
K 766.490 Radial†	13522.5	4946.8 µg/L	28.77	4946.8 ppb
QC value within limits for K 766.490 Radial	Recovery = 98.94%			
Mg 279.077 IEC†	13063.1	4874.6 µg/L	11.52	4874.6 ppb
QC value within limits for Mg 279.077 IEC	Recovery = 97.49%			
Mn 257.610†	387446.7	479.18 µg/L	0.553	479.18 ppb
QC value within limits for Mn 257.610	Recovery = 95.84%			
Mo 202.031†	16224.9	477.27 µg/L	3.139	477.27 ppb
QC value within limits for Mo 202.031	Recovery = 95.45%			
Na 589.592 Radial†	71350.0	9742.9 µg/L	43.25	9742.9 ppb
QC value within limits for Na 589.592 Radial	Recovery = 97.43%			
Ni 231.604†	41336.4	475.96 µg/L	0.597	475.96 ppb
QC value within limits for Ni 231.604	Recovery = 95.19%			
P 214.914†	11216.5	2390.8 µg/L	20.86	2390.8 ppb
QC value within limits for P 214.914	Recovery = 95.63%			
Pb 220.353†	8613.4	482.35 µg/L	3.112	482.35 ppb
QC value within limits for Pb 220.353	Recovery = 96.47%			
S 181.975 Axial†	1313.7	979.57 µg/L	4.000	979.57 ppb
QC value within limits for S 181.975 Axial	Recovery = 97.96%			
Sb 206.836†	4008.4	477.64 µg/L	3.993	477.64 ppb
QC value within limits for Sb 206.836	Recovery = 95.53%			
Se 196.026†	1318.0	479 µg/L	2.7	479 ppb
QC value within limits for Se 196.026	Recovery = 95.72%			
SiO2†	52743.2	5134.7 µg/L	9.97	5134.7 ppb
QC value within limits for SiO2	Recovery = 96.02%			
Si 251.611†	164295.2	2412.7 µg/L	4.82	2412.7 ppb
QC value within limits for Si 251.611	Recovery = 96.51%			
Sn 189.927†	7666.9	479.55 µg/L	4.353	479.55 ppb
QC value within limits for Sn 189.927	Recovery = 95.91%			
Sr 421.552†	233721.9	485.86 µg/L	1.912	485.86 ppb
QC value within limits for Sr 421.552	Recovery = 97.17%			
Ti 334.940†	510507.6	476.35 µg/L	0.570	476.35 ppb
QC value within limits for Ti 334.940	Recovery = 95.27%			
Tl 190.801†	3910.2	487.59 µg/L	3.906	487.59 ppb
QC value within limits for Tl 190.801	Recovery = 97.52%			
U 409.014†	7331.6	457.58 µg/L	9.674	457.58 ppb
QC value within limits for U 409.014	Recovery = 91.52%			
V 292.402†	96943.2	479.23 µg/L	0.636	479.23 ppb
QC value within limits for V 292.402	Recovery = 95.85%			
Zn 213.857†	84860.8	472.96 µg/L	1.440	472.96 ppb
QC value within limits for Zn 213.857	Recovery = 94.59%			

All analyte(s) passed QC.

Sequence No.: 26

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 5:51:01

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	143857.1	143857.1	98.6 %		05:51:30
1	Al 396.153Radial†	-190.3	-129.8	-24.073 µg/L	-24.073 ppb	05:51:30
1	Ca 317.933Radial†	662.4	111.4	6.2040 µg/L	6.2040 ppb	05:51:50
1	Fe 238.204 Radial†	240.6	95.9	5.9120 µg/L	5.9120 ppb	05:51:50
1	K 766.490 Radial†	1827.4	309.0	113.10 µg/L	113.10 ppb	05:51:30
1	Mg 279.077 IEC†	175.4	-12.8	-4.7672 µg/L	-4.7672 ppb	05:51:50
1	Na 589.592 Radial†	2010.1	748.3	102.12 µg/L	102.12 ppb	05:51:30
1	Sr 421.552†	-121.3	12.2	0.0254 µg/L	0.0254 ppb	05:51:30
1	Sc 361.383	1744647.3	1744647.3	101.54 %		05:52:38
1	Y 371.029	1039852.7	1039852.7	101.28 %		05:52:38
1	Ag 328.068†	4231.3	75.8	0.2964 µg/L	0.2964 ppb	05:52:40
1	As 188.979†	-7.4	13.0	3.9399 µg/L	3.9399 ppb	05:53:00
1	B 249.677†	3576.6	16.5	0.2423 µg/L	0.2423 ppb	05:52:40
1	Ba 233.527†	-119.0	18.7	0.0755 µg/L	0.0755 ppb	05:53:00
1	Be 313.107†	-677.2	397.7	0.1113 µg/L	0.1113 ppb	05:52:40
1	Cd 226.502†	-106.3	13.5	0.0838 µg/L	0.0838 ppb	05:53:00
1	Co 228.616†	-169.0	23.9	0.2944 µg/L	0.2944 ppb	05:53:00
1	Cr 267.716†	182.7	1.3	0.0029 µg/L	0.0029 ppb	05:53:00
1	Cu 324.752†	2933.5	-83.2	-0.3139 µg/L	-0.3139 ppb	05:52:40
1	Mn 257.610†	360.3	117.6	0.1457 µg/L	0.1457 ppb	05:53:00
1	Mo 202.031†	-13.1	7.1	0.2103 µg/L	0.2103 ppb	05:53:00
1	Ni 231.604†	-81.2	-3.4	-0.0393 µg/L	-0.0393 ppb	05:53:00
1	P 214.914†	-3.1	15.0	3.1893 µg/L	3.1893 ppb	05:53:00
1	Pb 220.353†	103.2	15.2	0.8412 µg/L	0.8412 ppb	05:53:00
1	S 181.975 Axial†	129.0	22.0	16.316 µg/L	16.316 ppb	05:53:00
1	Sb 206.836†	84.3	2.2	0.2646 µg/L	0.2646 ppb	05:53:00
1	Se 196.026†	21.1	5.5	2.01 µg/L	2.01 ppb	05:53:00
1	SiO2†	1943.3	138.5	13.536 µg/L	13.536 ppb	05:52:40
1	Si 251.611†	1317.1	460.6	6.7875 µg/L	6.7875 ppb	05:52:40
1	Sn 189.927†	-1.7	-0.6	-0.0361 µg/L	-0.0361 ppb	05:53:00
1	Ti 334.940†	1048.3	79.9	0.0710 µg/L	0.0710 ppb	05:52:40
1	Tl 190.801†	-113.2	5.2	0.6447 µg/L	0.6447 ppb	05:53:00
1	U 409.014†	-98.4	172.9	10.129 µg/L	10.129 ppb	05:52:40
1	V 292.402†	473.1	62.1	0.3114 µg/L	0.3114 ppb	05:52:40
1	Zn 213.857†	651.9	77.6	0.4356 µg/L	0.4356 ppb	05:53:00
2	Sc RADIAL	142277.4	142277.4	97.5 %		05:51:52
2	Al 396.153Radial†	-195.3	-137.1	-25.405 µg/L	-25.405 ppb	05:51:52
2	Ca 317.933Radial†	631.6	87.2	4.8601 µg/L	4.8601 ppb	05:52:12
2	Fe 238.204 Radial†	243.7	101.8	6.2746 µg/L	6.2746 ppb	05:52:12
2	K 766.490 Radial†	1831.8	334.1	122.30 µg/L	122.30 ppb	05:51:52
2	Mg 279.077 IEC†	198.1	12.5	4.6598 µg/L	4.6598 ppb	05:52:12
2	Na 589.592 Radial†	1973.8	733.7	100.12 µg/L	100.12 ppb	05:51:52
2	Sr 421.552†	-198.1	-68.0	-0.1413 µg/L	-0.1413 ppb	05:51:52
2	Sc 361.383	1755613.8	1755613.8	102.18 %		05:53:02
2	Y 371.029	1045342.2	1045342.2	101.82 %		05:53:02
2	Ag 328.068†	4084.8	-93.6	-0.3512 µg/L	-0.3512 ppb	05:53:05
2	As 188.979†	-11.6	9.0	2.7333 µg/L	2.7333 ppb	05:53:25
2	B 249.677†	3520.0	-60.9	-0.8996 µg/L	-0.8996 ppb	05:53:05
2	Ba 233.527†	-151.0	-11.9	-0.0485 µg/L	-0.0485 ppb	05:53:25
2	Be 313.107†	-734.9	345.5	0.0944 µg/L	0.0944 ppb	05:53:05
2	Cd 226.502†	-81.7	38.3	0.2382 µg/L	0.2382 ppb	05:53:25
2	Co 228.616†	-166.1	27.8	0.3426 µg/L	0.3426 ppb	05:53:25
2	Cr 267.716†	197.3	14.5	0.1126 µg/L	0.1126 ppb	05:53:25
2	Cu 324.752†	2823.4	-209.0	-0.8098 µg/L	-0.8098 ppb	05:53:05
2	Mn 257.610†	296.5	52.9	0.0653 µg/L	0.0653 ppb	05:53:25
2	Mo 202.031†	-26.0	-5.3	-0.1565 µg/L	-0.1565 ppb	05:53:25
2	Ni 231.604†	-104.8	-26.1	-0.3005 µg/L	-0.3005 ppb	05:53:25
2	P 214.914†	-27.4	-8.8	-1.8872 µg/L	-1.8872 ppb	05:53:25
2	Pb 220.353†	67.2	-20.6	-1.1524 µg/L	-1.1524 ppb	05:53:25

2	S 181.975 Axial†	133.6	25.7	19.101 µg/L	19.101 ppb	05:53:25
2	Sb 206.836†	85.0	2.4	0.2820 µg/L	0.2820 ppb	05:53:25
2	Se 196.026†	5.0	-10.4	-3.75 µg/L	-3.75 ppb	05:53:25
2	SiO2†	1920.1	103.8	10.144 µg/L	10.144 ppb	05:53:05
2	Si 251.611†	1212.7	350.3	5.1635 µg/L	5.1635 ppb	05:53:05
2	Sn 189.927†	6.6	7.5	0.4712 µg/L	0.4712 ppb	05:53:25
2	Ti 334.940†	1263.1	283.7	0.2643 µg/L	0.2643 ppb	05:53:05
2	Tl 190.801†	-114.3	4.8	0.5878 µg/L	0.5878 ppb	05:53:25
2	U 409.014†	-255.6	19.7	1.1243 µg/L	1.1243 ppb	05:53:05
2	V 292.402†	308.3	-102.1	-0.4992 µg/L	-0.4992 ppb	05:53:05
2	Zn 213.857†	622.2	44.6	0.2519 µg/L	0.2519 ppb	05:53:25
3	Sc RADIAL	143992.1	143992.1	98.7 %		05:52:14
3	Al 396.153Radial†	-137.4	-76.1	-14.103 µg/L	-14.103 ppb	05:52:14
3	Ca 317.933Radial†	645.0	93.1	5.1853 µg/L	5.1853 ppb	05:52:34
3	Fe 238.204 Radial†	216.1	70.9	4.3718 µg/L	4.3718 ppb	05:52:34
3	K 766.490 Radial†	1849.6	329.7	120.69 µg/L	120.69 ppb	05:52:14
3	Mg 279.077 IEC†	181.7	-6.5	-2.4380 µg/L	-2.4380 ppb	05:52:34
3	Na 589.592 Radial†	2041.7	778.4	106.23 µg/L	106.23 ppb	05:52:14
3	Sr 421.552†	-161.6	-28.5	-0.0593 µg/L	-0.0593 ppb	05:52:14
3	Sc 361.383	1751304.2	1751304.2	101.93 %		05:53:27
3	Y 371.029	1043123.9	1043123.9	101.60 %		05:53:27
3	Ag 328.068†	4042.1	-125.7	-0.4738 µg/L	-0.4738 ppb	05:53:29
3	As 188.979†	-14.7	5.9	1.7883 µg/L	1.7883 ppb	05:53:49
3	B 249.677†	3573.4	-0.0	-0.0007 µg/L	-0.0007 ppb	05:53:29
3	Ba 233.527†	-123.8	14.4	0.0582 µg/L	0.0582 ppb	05:53:49
3	Be 313.107†	-862.8	218.2	0.0565 µg/L	0.0565 ppb	05:53:29
3	Cd 226.502†	-104.2	16.0	0.0993 µg/L	0.0993 ppb	05:53:49
3	Co 228.616†	-189.1	4.8	0.0589 µg/L	0.0589 ppb	05:53:49
3	Cr 267.716†	233.6	50.6	0.4042 µg/L	0.4042 ppb	05:53:49
3	Cu 324.752†	2978.5	-50.0	-0.2016 µg/L	-0.2016 ppb	05:53:29
3	Mn 257.610†	332.2	88.6	0.1098 µg/L	0.1098 ppb	05:53:49
3	Mo 202.031†	-22.9	-2.4	-0.0712 µg/L	-0.0712 ppb	05:53:49
3	Ni 231.604†	-83.0	-4.9	-0.0567 µg/L	-0.0567 ppb	05:53:49
3	P 214.914†	-31.5	-13.0	-2.7749 µg/L	-2.7749 ppb	05:53:49
3	Pb 220.353†	87.3	-0.8	-0.0374 µg/L	-0.0374 ppb	05:53:49
3	S 181.975 Axial†	135.1	27.5	20.442 µg/L	20.442 ppb	05:53:49
3	Sb 206.836†	71.7	-10.5	-1.2527 µg/L	-1.2527 ppb	05:53:49
3	Se 196.026†	24.8	9.1	3.28 µg/L	3.28 ppb	05:53:49
3	SiO2†	1960.3	147.9	14.451 µg/L	14.451 ppb	05:53:29
3	Si 251.611†	1381.3	518.6	7.6414 µg/L	7.6414 ppb	05:53:29
3	Sn 189.927†	11.5	12.4	0.7700 µg/L	0.7700 ppb	05:53:49
3	Ti 334.940†	924.1	-45.9	-0.0388 µg/L	-0.0388 ppb	05:53:29
3	Tl 190.801†	-113.9	4.9	0.6058 µg/L	0.6058 ppb	05:53:49
3	U 409.014†	-442.0	-163.8	-9.5606 µg/L	-9.5606 ppb	05:53:29
3	V 292.402†	473.5	60.7	0.2903 µg/L	0.2903 ppb	05:53:29
3	Zn 213.857†	619.3	43.1	0.2421 µg/L	0.2421 ppb	05:53:49

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1750521.8	101.88 %	0.322			0.32%
Sc RADIAL	143375.5	98.2 %	0.65			0.66%
Y 371.029	1042772.9	101.57 %	0.269			0.26%
Ag 328.068†	-47.8	-0.1762 µg/L	0.41384	-0.1762 ppb	0.41384	234.86%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-114.3	-21.194 µg/L	6.1769	-21.194 ppb	6.1769	29.14%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	9.3	2.8205 µg/L	1.07844	2.8205 ppb	1.07844	38.24%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-14.8	-0.2194 µg/L	0.60155	-0.2194 ppb	0.60155	274.24%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.1	0.0284 µg/L	0.06714	0.0284 ppb	0.06714	236.17%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	320.5	0.0874 µg/L	0.02807	0.0874 ppb	0.02807	32.11%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	97.2	5.4165 µg/L	0.70116	5.4165 ppb	0.70116	12.94%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	22.6	0.1404 µg/L	0.08503	0.1404 ppb	0.08503	60.56%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	18.8	0.2320 µg/L	0.15179	0.2320 ppb	0.15179	65.44%

Cr	267.716†	22.2	0.1732 µg/L	0.20743	0.1732 ppb	0.20743	119.74%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cu	324.752†	-114.0	-0.4418 µg/L	0.32363	-0.4418 ppb	0.32363	73.25%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Fe	238.204 Radial†	89.6	5.5195 µg/L	1.01034	5.5195 ppb	1.01034	18.30%
QC value within limits for Cu 324.752 Recovery = Not calculated							
K	766.490 Radial†	324.2	118.70 µg/L	4.914	118.70 ppb	4.914	4.14%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-2.3	-0.8485 µg/L	4.91038	-0.8485 ppb	4.91038	578.73%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mn	257.610†	86.4	0.1069 µg/L	0.04026	0.1069 ppb	0.04026	37.65%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mo	202.031†	-0.2	-0.0058 µg/L	0.19198	-0.0058 ppb	0.19198	>999.9%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Na	589.592 Radial†	753.5	102.83 µg/L	3.115	102.83 ppb	3.115	3.03%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni	231.604†	-11.5	-0.1322 µg/L	0.14601	-0.1322 ppb	0.14601	110.48%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
P	214.914†	-2.3	-0.4909 µg/L	3.21789	-0.4909 ppb	3.21789	655.48%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb	220.353†	-2.1	-0.1162 µg/L	0.99914	-0.1162 ppb	0.99914	859.83%
QC value within limits for P 214.914 Recovery = Not calculated							
S	181.975 Axial†	25.1	18.620 µg/L	2.1044	18.620 ppb	2.1044	11.30%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb	206.836†	-2.0	-0.2354 µg/L	0.88107	-0.2354 ppb	0.88107	374.30%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Se	196.026†	1.4	0.512 µg/L	3.7435	0.512 ppb	3.7435	730.53%
QC value within limits for Sb 206.836 Recovery = Not calculated							
SiO2†		130.1	12.710 µg/L	2.2688	12.710 ppb	2.2688	17.85%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	443.2	6.5308 µg/L	1.25874	6.5308 ppb	1.25874	19.27%
QC value within limits for SiO2 Recovery = Not calculated							
Sn	189.927†	6.4	0.4017 µg/L	0.40750	0.4017 ppb	0.40750	101.44%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sr	421.552†	-28.1	-0.0584 µg/L	0.08335	-0.0584 ppb	0.08335	142.66%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti	334.940†	105.9	0.0989 µg/L	0.15342	0.0989 ppb	0.15342	155.20%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Tl	190.801†	5.0	0.6127 µg/L	0.02907	0.6127 ppb	0.02907	4.74%
QC value within limits for Ti 334.940 Recovery = Not calculated							
U	409.014†	9.6	0.5642 µg/L	9.85669	0.5642 ppb	9.85669	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V	292.402†	6.9	0.0342 µg/L	0.46201	0.0342 ppb	0.46201	>999.9%
QC value within limits for U 409.014 Recovery = Not calculated							
Zn	213.857†	55.1	0.3099 µg/L	0.10900	0.3099 ppb	0.10900	35.18%
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.

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\VanI 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	Mass	Curve Type	Correlation Coefficient
Be	9	Simple Linear	
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Simple Linear	
As	75	Simple Linear	
Se	77	Simple Linear	
Se	82	Simple Linear	
Kr	83	Simple Linear	
Lu	175	Linear Thru Zero	
Tl	205	Simple Linear	
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						
[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\ani 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
[Tl	205	10.000	ug/L	3.157	164485	0.461
[U	238	10.000	ug/L	0.649	401696	1.143

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						
[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 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\lanl 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 % 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: 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\ani 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\lanl 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 % Recov	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 soli.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 % Recov	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	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	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 MassOut 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\anal 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
[	Ni	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	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		99.1				
[	Ni	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 Mass Out 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	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	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	MassOut of Limits Message
QC Std 8	Be	9CCV 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_soll.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\anal 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 % Recov	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

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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\anl 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 % Di	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\lanl 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	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		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 MassOut 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 % Recov	Dilution % Di	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\ani 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 % Recov	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\lanl 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 % Recov	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\anal soli.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 % Di	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\ani 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	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	108.182					
> 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 Mass Out 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\ani 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
Li	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
Ti	205	0.140	ug/L	9.630	4685	0.006
U	238	0.006	ug/L	17.652	839	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	
Ti	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		96.5			
Li	60					
> Ge	74		91.4			
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175		95.3			
Ti	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 23:06:35

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056985

Sample Date/Time: Tuesday, April 13, 2010 23:10:00

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 959152|2|skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\1202056985.241

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	-0.030	ug/L	81.000	14	-0.000
> Sc	45		ug/L		442764	442763.817
[Ni	60	0.087	ug/L	27.581	208	0.000
> Ge	74		ug/L		236656	236656.310
[As	75	-0.031	ug/L	420.060	-31	-0.000
[Se	77		ug/L		2104	-0.006
[Se	82	-0.022	ug/L	602.960	-5	-0.000
[Kr	83		ug/L		75	-0.000
> Lu	175		ug/L		342542	342541.666
[Ti	205	0.002	ug/L	166.385	2846	0.000
[U	238	-0.013	ug/L	3.294	170	-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	
Ti	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 % Dif	Duplicate Rel. % Difference
[Be	9					
> Sc	45		99.4			
[Ni	60					
> Ge	74		93.2			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
> Lu	175		98.1			
[Ti	205					
[U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

Sample ID: 1202056985

Report Date/Time: Tuesday, April 13, 2010 23:10:42

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056990

Sample Date/Time: Tuesday, April 13, 2010 23:14:06

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 959152|40|skj

Method File: c:\elandata\Method\lanl soli.mth

Dataset File: C:\elandata\Dataset\100413\1202056990.242

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	22.937	ug/L	3.553	3477	0.008
>	Sc	45		ug/L		434634	434633.577
[	Ni	60	36.661	ug/L	3.541	32723	0.075
>	Ge	74		ug/L		235123	235122.792
[	As	75	27.680	ug/L	1.491	17886	0.076
|	Se	77		ug/L		6529	0.013
|	Se	82	75.778	ug/L	1.515	4812	0.020
[	Kr	83		ug/L		101	0.000
>	Lu	175		ug/L		332794	332794.184
|	Tl	205	33.184	ug/L	0.464	465855	1.392
[	U	238	0.521	ug/L	0.849	19052	0.055

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		97.5			
[	Ni	60					
>	Ge	74		92.6			
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
>	Lu	175		95.4			
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

Sample ID: 1202056990

Report Date/Time: Tuesday, April 13, 2010 23:14:48

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248247001

Sample Date/Time: Tuesday, April 13, 2010 23:18:13

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959152[2]skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\248247001.243

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.714	ug/L	9.507	466	0.001
> Sc	45		ug/L		475014	475014.027
Ni	60	19.539	ug/L	2.976	19126	0.040
> Ge	74		ug/L		235543	235542.646
As	75	5.612	ug/L	12.356	3623	0.015
Se	77		ug/L		2112	-0.006
Se	82	0.292	ug/L	180.748	15	0.000
Kr	83		ug/L		141	0.000
> Lu	175		ug/L		359832	359832.409
Ti	205	0.184	ug/L	8.813	5735	0.008
U	238	2.660	ug/L	3.331	102333	0.283

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	
Ti	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		106.6			
Ni	60					
> Ge	74		92.7			
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175		103.1			
Ti	205					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

Sample ID: 248247001

Report Date/Time: Tuesday, April 13, 2010 23:18:56

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056986

Sample Date/Time: Tuesday, April 13, 2010 23:22:20

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 959152[2]skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\1202056986.244

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	2.716	ug/L	4.839	471	0.001
[> Sc	45		ug/L		478818	478818.004
[Ni	60	22.275	ug/L	2.753	21966	0.046
[> Ge	74		ug/L		236697	236697.016
[As	75	5.426	ug/L	2.325	3520	0.015
[Se	77		ug/L		2065	-0.006
[Se	82	0.078	ug/L	421.366	2	0.000
[Kr	83		ug/L		146	0.000
[> Lu	175		ug/L		360269	360268.853
[Tl	205	0.119	ug/L	8.007	4766	0.005
[U	238	2.950	ug/L	0.979	113541	0.313

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 % Di	Duplicate Rel.	% Difference
[Be	9						
[> Sc	45		107.5				
[Ni	60						
[> Ge	74		93.2				
[As	75						
[Se	77						
[Se	82						
[Kr	83						
[> Lu	175		103.2				
[Tl	205						
[U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

Sample ID: 1202056986

Report Date/Time: Tuesday, April 13, 2010 23:23:03

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056988

Sample Date/Time: Tuesday, April 13, 2010 23:26:27

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 959152|2|skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\1202056988.245

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	28.516	ug/L	6.042	4833	0.010
[> Sc	45		ug/L		486844	486844.298
[Ni	60	44.250	ug/L	2.024	44226	0.091
[> Ge	74		ug/L		236894	236893.691
[As	75	48.039	ug/L	0.601	31283	0.132
[Se	77		ug/L		2706	-0.004
[Se	82	9.889	ug/L	0.146	630	0.003
[Kr	83		ug/L		162	0.000
[> Lu	175		ug/L		369066	369066.281
[Tl	205	47.959	ug/L	1.598	745287	2.011
[U	238	28.462	ug/L	1.982	1116510	3.023

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		109.3			
[Ni	60					
[> Ge	74		93.2			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
[> Lu	175		105.7			
[Tl	205					
[U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

Sample ID: 1202056988

Report Date/Time: Tuesday, April 13, 2010 23:27:10

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056989

Sample Date/Time: Tuesday, April 13, 2010 23:30:34

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 959152|2|skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\1202056989.246

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	27.471	ug/L	5.168	4672	0.010
> Sc	45		ug/L		488435	488434.922
Ni	60	43.473	ug/L	1.546	43595	0.089
> Ge	74		ug/L		239507	239507.388
As	75	43.901	ug/L	3.914	28893	0.121
Se	77		ug/L		2663	-0.004
Se	82	9.363	ug/L	2.023	603	0.003
Kr	83		ug/L		172	0.000
> Lu	175		ug/L		367056	367056.163
Ti	205	46.075	ug/L	2.606	712042	1.932
U	238	27.956	ug/L	2.647	1090503	2.969

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 % 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		105.2				
Ti	205						
U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

Sample ID: 1202056989

Report Date/Time: Tuesday, April 13, 2010 23:31:17

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056987

Sample Date/Time: Tuesday, April 13, 2010 23:34:42

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 959152|10|skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\1202056987.247

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.588	ug/L	2.063	109	0.000
>	Sc	45		ug/L		444659	444658.513
[	Ni	60	4.337	ug/L	2.108	4076	0.009
>	Ge	74		ug/L		234437	234436.824
[	As	75	1.064	ug/L	39.434	673	0.003
|	Se	77		ug/L		2620	-0.004
|	Se	82	-0.013	ug/L	2794.499	-4	-0.000
[	Kr	83		ug/L		86	0.000
>	Lu	175		ug/L		334461	334460.680
|	Tl	205	0.040	ug/L	15.049	3308	0.002
[	U	238	0.568	ug/L	3.662	20786	0.060

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 % Di	Duplicate Rel. % Difference
[	Be	9				
>	Sc	45		99.8		
[	Ni	60				
>	Ge	74		92.3		
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
>	Lu	175		95.8		
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

Sample ID: 1202056987

Report Date/Time: Tuesday, April 13, 2010 23:35:24

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248247002

Sample Date/Time: Tuesday, April 13, 2010 23:38:49

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959152|2|skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\248247002.248

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	2.369	ug/L	4.804	413	0.001
[> Sc	45		ug/L		478786	478786.213
[Ni	60	11.955	ug/L	1.079	11855	0.024
[> Ge	74		ug/L		237914	237914.160
[As	75	10.439	ug/L	2.275	6818	0.029
[Se	77		ug/L		2064	-0.006
[Se	82	-0.132	ug/L	215.478	-12	-0.000
[Kr	83		ug/L		152	0.000
[> Lu	175		ug/L		365852	365852.156
[Tl	205	0.065	ug/L	13.771	4004	0.003
[U	238	3.433	ug/L	2.295	134038	0.365

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		107.4				
[Ni	60						
[> Ge	74		93.7				
[As	75						
[Se	77						
[Se	82						
[Kr	83						
[> Lu	175		104.8				
[Tl	205						
[U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

Sample ID: 248247002

Report Date/Time: Tuesday, April 13, 2010 23:39:31

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248247003

Sample Date/Time: Tuesday, April 13, 2010 23:42:56

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959152|2|skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\248247003.249

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.121	ug/L	2.976	368	0.001
> Sc	45		ug/L		472806	472806.452
Ni	60	26.199	ug/L	2.933	25478	0.054
> Ge	74		ug/L		239766	239766.019
As	75	3.434	ug/L	7.970	2252	0.009
Se	77		ug/L		2044	-0.006
Se	82	0.124	ug/L	340.343	5	0.000
Kr	83		ug/L		160	0.000
> Lu	175		ug/L		372512	372512.340
Tl	205	0.011	ug/L	36.421	3228	0.000
U	238	2.657	ug/L	2.132	105814	0.282

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		106.1				
Ni	60						
> Ge	74		94.4				
As	75						
Se	77						
Se	82						
Kr	83						
> Lu	175		106.7				
Tl	205						
U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

Sample ID: 248247003

Report Date/Time: Tuesday, April 13, 2010 23:43:39

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 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	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	108.015					
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 MassOut 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\Nani soli.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 % Recovery	Dilution % Dil	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: 248247004

Sample Date/Time: Tuesday, April 13, 2010 23:55:17

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959152|2|skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\248247004.252

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	10.055	ug/L	5.158	1988	0.003
> Sc	45		ug/L		563115	563115.456
Ni	60	59.962	ug/L	1.290	69269	0.123
> Ge	74		ug/L		235613	235613.479
As	75	14.917	ug/L	1.498	9653	0.041
Se	77		ug/L		2118	-0.006
Se	82	-1.518	ug/L	27.420	-100	-0.000
Kr	83		ug/L		277	0.001
> Lu	175		ug/L		351913	351912.907
Ti	205	0.849	ug/L	2.924	15420	0.036
U	238	3.451	ug/L	2.547	129615	0.367

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	
Ti	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		126.4				
Ni	60						
> Ge	74		92.7				
As	75						
Se	77						
Se	82						
Kr	83						
> Lu	175		100.8				
Ti	205						
U	238						

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
Sc 45 Int Std for sar	Sc	45

Sample ID: 248247004

Report Date/Time: Tuesday, April 13, 2010 23:56:00

Page 1

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 248247005

Sample Date/Time: Tuesday, April 13, 2010 23:59:24

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959152|2|skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\248247005.253

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.654	ug/L	8.672	473	0.001
> Sc	45		ug/L		491437	491437.091
Ni	60	17.405	ug/L	0.667	17650	0.036
> Ge	74		ug/L		241060	241060.232
As	75	4.861	ug/L	8.227	3206	0.013
Se	77		ug/L		2001	-0.007
Se	82	-0.180	ug/L	124.918	-15	-0.000
Kr	83		ug/L		172	0.000
> Lu	175		ug/L		365721	365720.506
Tl	205	0.272	ug/L	1.360	7172	0.011
U	238	3.208	ug/L	1.806	125279	0.341

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		110.3				
Ni	60						
> Ge	74		94.9				
As	75						
Se	77						
Se	82						
Kr	83						
> Lu	175		104.8				
Tl	205						
U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

Sample ID: 248247005

Report Date/Time: Wednesday, April 14, 2010 00:00:07

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248247006

Sample Date/Time: Wednesday, April 14, 2010 00:03:32

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959152[2]skj

Method File: c:\elandata\Method\lanl soli.mth

Dataset File: C:\elandata\Dataset\100413\248247006.254

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	2.844	ug/L	11.284	496	0.001
[> Sc	45		ug/L		482930	482929.659
[Ni	60	15.033	ug/L	1.534	14996	0.031
[> Ge	74		ug/L		234883	234882.912
[As	75	7.185	ug/L	2.607	4629	0.020
[Se	77		ug/L		1921	-0.007
[Se	82	0.150	ug/L	234.940	6	0.000
[Kr	83		ug/L		136	0.000
[> Lu	175		ug/L		357704	357703.652
[Tl	205	0.195	ug/L	4.300	5863	0.008
[U	238	2.848	ug/L	1.471	108865	0.302

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 % Di	Duplicate Rel. % Difference
[Be	9					
[> Sc	45		108.4			
[Ni	60					
[> Ge	74		92.5			
[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: 248247006

Report Date/Time: Wednesday, April 14, 2010 00:04:15

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248247007

Sample Date/Time: Wednesday, April 14, 2010 00:07:40

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959152|2|skj

Method File: c:\elandata\Method\lanl sol.mth

Dataset File: C:\elandata\Dataset\100413\248247007.255

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	3.099	ug/L	7.380	552	0.001
[> Sc	45		ug/L		494518	494518.030
[Ni	60	29.148	ug/L	3.525	29632	0.060
[> Ge	74		ug/L		235742	235741.701
[As	75	6.164	ug/L	6.075	3982	0.017
[Se	77		ug/L		1918	-0.007
[Se	82	-0.388	ug/L	71.280	-28	-0.000
[Kr	83		ug/L		172	0.000
[> Lu	175		ug/L		354450	354450.110
[Tl	205	0.227	ug/L	2.115	6281	0.009
[U	238	3.056	ug/L	3.208	115681	0.325

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		111.0				
[Ni	60						
[> Ge	74		92.8				
[As	75						
[Se	77						
[Se	82						
[Kr	83						
[> Lu	175		101.6				
[Tl	205						
[U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

Sample ID: 248247007

Report Date/Time: Wednesday, April 14, 2010 00:08:22

Page 1

QC Action Line: No QC out of limits detected

Sample ID: 248247007

Report Date/Time: Wednesday, April 14, 2010 00:08:22

Page 2

ICPMS#5 - Summary Report

Sample ID: 248247008

Sample Date/Time: Wednesday, April 14, 2010 00:11:47

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959152[2]skj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\248247008.256

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	3.623	ug/L	7.145	647	0.001
[> Sc	45		ug/L		499083	499083.426
[Ni	60	20.064	ug/L	2.917	20631	0.041
[> Ge	74		ug/L		235791	235790.983
[As	75	6.749	ug/L	4.039	4363	0.019
[Se	77		ug/L		1951	-0.007
[Se	82	-0.082	ug/L	448.253	-8	-0.000
[Kr	83		ug/L		172	0.000
[> Lu	175		ug/L		362172	362172.454
[Tl	205	0.228	ug/L	1.145	6437	0.010
[U	238	3.294	ug/L	3.619	127365	0.350

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		112.0				
[Ni	60						
[> Ge	74		92.8				
[As	75						
[Se	77						
[Se	82						
[Kr	83						
[> Lu	175		103.8				
[Tl	205						
[U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

Sample ID: 248247008

Report Date/Time: Wednesday, April 14, 2010 00:12:30

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\Vanl 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 % Recovery	Dilution % Dil	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\ani 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: Blank

Sample Date/Time: Wednesday, April 14, 2010 09:45:12

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.383

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9		ug/L		21	
|>	Sc	45		ug/L		446403	
[	Ni	60		ug/L		91	
[>	Ge	74		ug/L		239435	
|	As	75		ug/L		153	
|	Se	77		ug/L		2376	
|	Se	82		ug/L		68	
[	Kr	83		ug/L		71	
[>	Lu	175		ug/L		338348	
|	Tl	205		ug/L		1491	
[	U	238		ug/L		915	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Simple Linear	
Sc	45	Simple Linear	
Ni	60	Simple Linear	
Ge	74	Simple Linear	
As	75	Simple Linear	
Se	77	Simple Linear	
Se	82	Simple Linear	
Kr	83	Simple Linear	
Lu	175	Linear Thru Zero	
Tl	205	Simple Linear	
U	238	Linear Thru Zero	

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	Mass	Out of Limits Message
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QC Action

Sample ID: Blank
Report Date/Time: Wednesday, April 14, 2010 09:45:55
Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Wednesday, April 14, 2010 09:48:22

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\Standard 1.384

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	10.000	ug/L	4.794	1653	0.004
[> Sc	45		ug/L		446503	446503.149
[Ni	60	10.000	ug/L	4.146	8549	0.019
[> Ge	74		ug/L		233811	233810.577
[As	75	10.000	ug/L	6.800	6202	0.026
[Se	77		ug/L		2802	0.002
[Se	82	10.000	ug/L	4.703	638	0.002
[Kr	83		ug/L		79	0.000
[> Lu	175		ug/L		338364	338363.602
[Ti	205	10.000	ug/L	1.301	147503	0.432
[U	238	10.000	ug/L	2.355	371029	1.094

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 % Dil	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: Wednesday, April 14, 2010 09:49:02

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Wednesday, April 14, 2010 09:51:30

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100413\Standard 2.385

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	100.010	ug/L	8.155	16126	0.037
> Sc	45		ug/L		436101	436101.192
Ni	60	100.008	ug/L	0.703	83365	0.191
> Ge	74		ug/L		236361	236360.750
As	75	100.037	ug/L	2.240	63752	0.269
Se	77		ug/L		7117	0.020
Se	82	100.078	ug/L	0.926	6334	0.027
Kr	83		ug/L		108	0.000
> Lu	175		ug/L		339761	339760.601
Tl	205	99.946	ug/L	0.584	1392096	4.093
U	238	99.915	ug/L	3.440	3423397	10.074

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					
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: Wednesday, April 14, 2010 09:52:10

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Wednesday, April 14, 2010 09:54:38

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 1.386

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	49.456	ug/L	7.046	8101	0.018
> Sc	45		ug/L		442397	442396.737
Ni	60	51.218	ug/L	1.298	43356	0.098
> Ge	74		ug/L		239291	239290.846
As	75	50.281	ug/L	5.326	32500	0.135
Se	77		ug/L		4942	0.011
Se	82	51.061	ug/L	3.563	3304	0.014
Kr	83		ug/L		95	0.000
> Lu	175		ug/L		338671	338671.068
Tl	205	50.768	ug/L	2.914	705450	2.079
U	238	52.124	ug/L	2.643	1780458	5.256

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	98.913					
> Sc	45		99.1				
Ni	60	102.436					
> Ge	74		99.9				
As	75	100.563					
Se	77						
Se	82	102.121					
Kr	83						
> Lu	175		100.1				
Tl	205	101.536					
U	238	104.248					

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

Sample ID: QC Std 1

Report Date/Time: Wednesday, April 14, 2010 09:55:19

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Wednesday, April 14, 2010 09:57:49

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 2.387

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	-0.044	ug/L	75.886	13	-0.000
[> Sc	45		ug/L		443730	443730.314
[Ni	60	0.006	ug/L	115.168	95	0.000
[> Ge	74		ug/L		238286	238286.174
[As	75	-0.071	ug/L	237.655	106	-0.000
[Se	77		ug/L		2545	0.001
[Se	82	-0.818	ug/L	32.543	16	-0.000
[Kr	83		ug/L		79	0.000
[> Lu	175		ug/L		338975	338974.858
[Tl	205	0.276	ug/L	7.035	5317	0.011
[U	238	0.001	ug/L	121.384	965	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 % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[Be	9						
[> Sc	45		99.4				
[Ni	60						
[> Ge	74		99.5				
[As	75						
[Se	77						
[Se	82						
[Kr	83						
[> Lu	175		100.2				
[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: Wednesday, April 14, 2010 09:58:32

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Wednesday, April 14, 2010 10:01:00

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nanl soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 3.388

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.545	ug/L	8.514	111	0.000
Sc	45		ug/L		448390	448389.643
Ni	60	2.252	ug/L	2.338	2019	0.004
Ge	74		ug/L		240350	240350.436
As	75	5.729	ug/L	10.431	3857	0.015
Se	77		ug/L		2422	0.000
Se	82	4.890	ug/L	5.080	380	0.001
Kr	83		ug/L		70	-0.000
Lu	175		ug/L		340155	340155.301
Tl	205	1.250	ug/L	0.964	18915	0.051
U	238	0.286	ug/L	4.323	10738	0.029

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 %	Duplicate Rel. % Difference
Be	9	109.005				
Sc	45		100.4			
Ni	60	112.587				
Ge	74		100.4			
As	75	114.577				
Se	77					
Se	82	97.798				
Kr	83					
Lu	175		100.5			
Tl	205	125.019				
U	238	143.174				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	U	238	CRDL is out of limits

Sample ID: QC Std 3

Report Date/Time: Wednesday, April 14, 2010 10:01:41

Page 1

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Wednesday, April 14, 2010 10:04:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\VanI soil.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 4.389

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.080	ug/L	68.528	33	0.000
> Sc	45		ug/L		434992	434991.590
[Ni	60	2.862	ug/L	0.701	2466	0.005
> Ge	74		ug/L		230531	230530.970
[As	75	-0.184	ug/L	98.348	33	-0.000
| Se	77		ug/L		4341	0.009
| Se	82	-1.998	ug/L	3.810	-56	-0.001
[Kr	83		ug/L		169	0.000
> Lu	175		ug/L		325304	325303.897
| Tl	205	0.023	ug/L	28.397	1743	0.001
[U	238	-0.020	ug/L	1.881	216	-0.002

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		97.4				
[Ni	60	86.456					
> Ge	74		96.3				
| As	75						
| Se	77						
| Se	82						
[Kr	83						
> Lu	175		96.1				
| 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: Wednesday, April 14, 2010 10:04:51

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Wednesday, April 14, 2010 10:07:19

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 5.390

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	19.934	ug/L	6.132	3170	0.007
[> Sc	45		ug/L		427814	427814.310
[Ni	60	22.436	ug/L	1.374	18412	0.043
[> Ge	74		ug/L		228656	228655.777
[As	75	20.434	ug/L	1.541	12715	0.055
[Se	77		ug/L		4653	0.010
[Se	82	19.149	ug/L	5.083	1225	0.005
[Kr	83		ug/L		160	0.000
[> Lu	175		ug/L		317568	317567.651
[Tl	205	19.039	ug/L	1.588	248986	0.780
[U	238	22.303	ug/L	1.839	714898	2.249

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	99.671					
[> Sc	45		95.8				
[Ni	60	96.252					
[> Ge	74		95.5				
[As	75	102.168					
[Se	77						
[Se	82	95.743					
[Kr	83						
[> Lu	175		93.9				
[Tl	205	95.194					
[U	238	111.513					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

Sample ID: QC Std 5

Report Date/Time: Wednesday, April 14, 2010 10:08:01

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, April 14, 2010 10:10:30

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 6.391

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	47.265	ug/L	6.520	8048	0.017
> Sc	45		ug/L		459840	459839.889
Ni	60	51.666	ug/L	0.765	45459	0.099
> Ge	74		ug/L		249599	249599.249
As	75	50.044	ug/L	3.141	33752	0.135
Se	77		ug/L		6003	0.014
Se	82	49.446	ug/L	2.838	3340	0.013
Kr	83		ug/L		78	0.000
> Lu	175		ug/L		347023	347022.581
Ti	205	48.219	ug/L	3.409	686438	1.975
U	238	50.874	ug/L	1.412	1780621	5.130

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	94.529				
> Sc	45		103.0			
Ni	60	103.331				
> Ge	74		104.2			
As	75	100.088				
Se	77					
Se	82	98.891				
Kr	83					
> Lu	175		102.6			
Ti	205	96.438				
U	238	101.748				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

Sample ID: QC Std 6

Report Date/Time: Wednesday, April 14, 2010 10:11:12

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 10:13:41

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 7.392

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.012	ug/L	79.065	23	0.000
> Sc	45		ug/L		460077	460076.683
Ni	60	0.002	ug/L	652.476	95	0.000
> Ge	74		ug/L		249744	249744.248
As	75	-0.092	ug/L	690.559	96	-0.000
Se	77		ug/L		3512	0.004
Se	82	-0.921	ug/L	5.960	10	-0.000
Kr	83		ug/L		73	-0.000
> Lu	175		ug/L		346466	346466.234
Tl	205	0.363	ug/L	4.400	6679	0.015
U	238	0.000	ug/L	129955.196	936	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 % Recov	Dilution % Dil	Duplicate Rel. % Difference
Be	9					
> Sc	45		103.1			
Ni	60					
> Ge	74		104.3			
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175		102.4			
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 10:14:24

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 10:26:29

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 8.396

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	47.183	ug/L	7.024	7999	0.017
[>	Sc	45		ug/L		457752	457752.012
[	Ni	60	50.983	ug/L	1.458	44658	0.097
[>	Ge	74		ug/L		252569	252569.031
[	As	75	48.290	ug/L	0.967	32971	0.130
[	Se	77		ug/L		5063	0.010
[	Se	82	46.655	ug/L	1.709	3194	0.012
[	Kr	83		ug/L		89	0.000
[>	Lu	175		ug/L		353562	353562.365
[	Tl	205	47.481	ug/L	3.035	688957	1.944
[	U	238	49.413	ug/L	2.057	1762349	4.982

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	94.365					
[>	Sc	45		102.5				
[	Ni	60	101.966					
[>	Ge	74		105.5				
[	As	75	96.579					
[	Se	77						
[	Se	82	93.310					
[	Kr	83						
[>	Lu	175		104.5				
[	Tl	205	94.963					
[	U	238	98.827					

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 10:27:11

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 10:29:40

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 9.397

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	-0.019	ug/L	84.009	18	-0.000
> Sc	45		ug/L		460070	460070.391
Ni	60	0.011	ug/L	22.292	103	0.000
> Ge	74		ug/L		247154	247153.964
As	75	-0.362	ug/L	89.401	-83	-0.001
Se	77		ug/L		2904	0.002
Se	82	-1.181	ug/L	2.358	-7	-0.000
Kr	83		ug/L		82	0.000
> Lu	175		ug/L		347813	347812.766
Tl	205	0.338	ug/L	4.100	6352	0.014
U	238	0.002	ug/L	42.338	1005	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 % Recov	Dilution % Di	Duplicate Rel.	% Difference
Be	9						
> Sc	45		103.1				
Ni	60						
> Ge	74		103.2				
As	75						
Se	77						
Se	82						
Kr	83						
> Lu	175		102.8				
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 10:30:23

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248247004

Sample Date/Time: Wednesday, April 14, 2010 10:32:53

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959152|10|skj

Method File: c:\elandata\Method\lanl soll.mth

Dataset File: C:\elandata\Dataset\100413\248247004.398

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	4.346	ug/L	11.882	812	0.002
> Sc	45		ug/L		491739	491738.954
Ni	60	31.171	ug/L	1.500	29369	0.060
> Ge	74		ug/L		237282	237282.300
As	75	6.184	ug/L	4.907	4098	0.017
Se	77		ug/L		2374	0.000
Se	82	-1.387	ug/L	16.561	-19	-0.000
Kr	83		ug/L		147	0.000
> Lu	175		ug/L		345055	345054.979
Tl	205	0.473	ug/L	3.674	8206	0.019
U	238	1.489	ug/L	2.455	52733	0.150

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		110.2				
Ni	60						
> Ge	74		99.1				
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: 248247004

Report Date/Time: Wednesday, April 14, 2010 10:33:36

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, April 14, 2010 10:36:05

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 6.399

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	46.890	ug/L	5.181	7934	0.017
> Sc	45		ug/L		456826	456825.752
Ni	60	51.275	ug/L	2.379	44820	0.098
> Ge	74		ug/L		246710	246709.676
As	75	49.304	ug/L	0.587	32877	0.133
Se	77		ug/L		5156	0.011
Se	82	48.274	ug/L	2.273	3225	0.013
Kr	83		ug/L		85	0.000
> Lu	175		ug/L		353568	353567.860
Tl	205	47.005	ug/L	3.473	681879	1.925
U	238	49.172	ug/L	2.083	1753656	4.958

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	93.780					
> Sc	45		102.3				
Ni	60	102.550					
> Ge	74		103.0				
As	75	98.609					
Se	77						
Se	82	96.547					
Kr	83						
> Lu	175		104.5				
Tl	205	94.010					
U	238	98.345					

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 10:36:47

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 10:39:17

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 7.400

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	-0.017	ug/L	59.000	18	-0.000
> Sc	45		ug/L		450192	450192.048
Ni	60	0.012	ug/L	30.566	102	0.000
> Ge	74		ug/L		245850	245849.909
As	75	-0.536	ug/L	27.431	-197	-0.001
Se	77		ug/L		2757	0.001
Se	82	-1.094	ug/L	26.512	-1	-0.000
Kr	83		ug/L		77	0.000
> Lu	175		ug/L		340915	340915.009
Tl	205	0.347	ug/L	3.972	6350	0.014
U	238	0.004	ug/L	23.707	1070	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 % Recov	Dilution % Dil	Duplicate Rel. % Difference
Be	9					
> Sc	45		100.8			
Ni	60					
> Ge	74		102.7			
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: QC Std 7

Report Date/Time: Wednesday, April 14, 2010 10:39:59

Page 1

QC Action Line: No QC out of limits detected

=====
Analysis BegunLogged In Analyst: Administrator
Spectrometer Model: FIMS-100, S/N B050-9550Technique: AA FIMS-MHS
Autosampler Model: S10Sample Information File: C:\data-AA\Administrator\Sample Information\031710S1.SIF
Batch ID:
Results Data Set: 031710S2
Results Library: C:\data-AA\Administrator\Results\Results.mdb=====
Sequence No.: 1
Sample ID: Calib Blank
Analyst:Autosampler Location: 1
Date Collected: 3/17/2010 09:37:29
Data Type: Original-----
Replicate Data: Calib Blank

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1		[0.00]	0.0002	-0.0002	0.0002	09:38:19	Yes
2		[0.00]	0.0002	-0.0002	0.0002	09:38:49	Yes
Mean:		[0.00]	0.0002				
SD:		0.00	0.0000				
%RSD:		0.00	1.02				

Auto-zero performed.

=====
Sequence No.: 2
Sample ID: S0.2
Analyst:Autosampler Location: 2
Date Collected: 3/17/2010 09:39:08
Data Type: Original-----
Replicate Data: S0.2

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1		[0.2]	0.0026	0.0125	0.0028	09:39:59	Yes
2		[0.2]	0.0026	0.0127	0.0028	09:40:29	Yes
Mean:		[0.2]	0.0026				
SD:		0.0	0.0000				
%RSD:		0.0	0.59				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01304 Intercept: 0.00000

=====
Sequence No.: 3
Sample ID: S0.5
Analyst:Autosampler Location: 3
Date Collected: 3/17/2010 09:40:48
Data Type: Original-----
Replicate Data: S0.5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1		[0.5]	0.0066	0.0314	0.0068	09:41:38	Yes
2		[0.5]	0.0065	0.0307	0.0067	09:42:08	Yes
Mean:		[0.5]	0.0066				
SD:		0.0	0.0000				
%RSD:		0.0	0.58				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.999998 Slope: 0.01311 Intercept: -0.00000

=====
Sequence No.: 4
Sample ID: S2.0
Analyst:Autosampler Location: 4
Date Collected: 3/17/2010 09:42:28
Data Type: Original-----
Replicate Data: S2.0

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored

1	[2.0]	0.0259	0.1207	0.0261	09:43:19	Yes
2	[2.0]	0.0259	0.1200	0.0261	09:43:49	Yes
Mean:	[2.0]	0.0259				
SD:	0.0	0.0000				
%RSD:	0.0	0.07				
Standard number 3 applied. [2.0]						
Correlation Coef.: 0.999995 Slope: 0.01293 Intercept: 0.00003						

Sequence No.: 5	Autosampler Location: 5
Sample ID: S5.0	Date Collected: 3/17/2010 09:44:09
Analyst:	Data Type: Original

Rep#	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1		[5.0]	0.0635	0.2947	0.0637	09:45:01	Yes
2		[5.0]	0.0631	0.2930	0.0633	09:45:31	Yes
Mean:		[5.0]	0.0633				
SD:		0.0	0.0003				
%RSD:		0.0	0.40				
Standard number 4 applied. [5.0]							
Correlation Coef.: 0.999960 Slope: 0.01266 Intercept: 0.00018							

Sequence No.: 6

Sample ID: S10.0

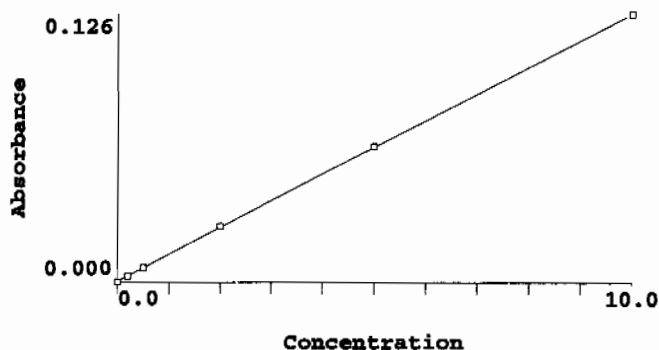
Analyst:

Autosampler Location: 6

Date Collected: 3/17/2010 09:45:51

Data Type: Original

Repl #	SampleConc ug/L	StdndConc ug/L	BlncCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.1260	0.5863	0.1262	09:46:41	Yes
2		[10.0]	0.1253	0.5799	0.1255	09:47:11	Yes
Mean:		[10.0]	0.1257				
SD:		0.0	0.0005				
%RSD:		0.0	0.41				
Standard number 5 applied. [10.0]							
Correlation Coef.: 0.999982			Slope: 0.01256		Intercept: 0.00029		



ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calib Blank	0.0000	0	-0.023	0.00	1.0
S0.2	0.0026	0.2	0.185	0.00	0.6
S0.5	0.0066	0.5	0.499	0.00	0.6
S2.0	0.0259	2.0	2.038	0.00	0.1
S5.0	0.0633	5.0	5.017	0.00	0.4
S10.0	0.1257	10.0	9.984	0.00	0.4
Correlation Coef.: 0.999982 Slope: 0.01256 Intercept: 0.00029					

Sequence No.: 7
Sample ID: ICV
Analyst:

Autosampler Location: 9
Date Collected: 3/17/2010 09:47:30
Data Type: Original

Replicate Data: ICV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.147	5.147	0.0649	0.2998	0.0651	09:48:21	Yes
2	5.115	5.115	0.0645	0.2978	0.0647	09:48:51	Yes
Mean:	5.131	5.131	0.0647				
SD:	0.023	0.023	0.0003				
%RSD:	0.444	0.444	0.44				

QC value within limits for Hg 253.7 Recovery = 102.62%
All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICB
Analyst:

Autosampler Location: 10
Date Collected: 3/17/2010 09:49:11
Data Type: Original

Replicate Data: ICB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.003	-0.003	0.0003	0.0027	0.0004	09:50:02	Yes
2	-0.003	-0.003	0.0002	0.0028	0.0004	09:50:32	Yes
Mean:	-0.003	-0.003	0.0002				
SD:	0.000	0.000	0.0000				
%RSD:	14.23	14.23	2.15				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 9
Sample ID: CRDL
Analyst:

Autosampler Location: 11
Date Collected: 3/17/2010 09:50:52
Data Type: Original

Replicate Data: CRDL

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.204	0.204	0.0029	0.0153	0.0030	09:51:44	Yes
2	0.194	0.194	0.0027	0.0138	0.0029	09:52:13	Yes
Mean:	0.199	0.199	0.0028				
SD:	0.007	0.007	0.0001				
%RSD:	3.655	3.655	3.28				

QC value within limits for Hg 253.7 Recovery = 99.54%
All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 3/17/2010 09:52:33
Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.127	5.127	0.0647	0.2981	0.0649	09:53:24	Yes
2	5.101	5.101	0.0644	0.2968	0.0645	09:53:53	Yes
Mean:	5.114	5.114	0.0645				
SD:	0.018	0.018	0.0002				
%RSD:	0.360	0.360	0.36				

QC value within limits for Hg 253.7 Recovery = 102.29%
All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 3/17/2010 09:54:12
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.015	-0.015	0.0001	0.0013	0.0003	09:55:03	Yes
2	-0.017	-0.017	0.0001	0.0011	0.0003	09:55:33	Yes
Mean:	-0.016	-0.016	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	8.640	8.640	20.06				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 12
Sample ID: 1202056199|958764|1
Analyst: JXL

Autosampler Location: 12
Date Collected: 3/17/2010 09:55:52
Data Type: Original

Replicate Data: 1202056199|958764|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.012	-0.012	0.0001	0.0017	0.0003	09:56:44	Yes
2	-0.011	-0.011	0.0002	0.0018	0.0003	09:57:14	Yes
Mean:	-0.011	-0.011	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	11.25	11.25	11.37				

=====

Sequence No.: 13
Sample ID: 1202056200|958764|10
Analyst: JXL

Autosampler Location: 13
Date Collected: 3/17/2010 09:57:34
Data Type: Original

Replicate Data: 1202056200|958764|10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.314	3.314	0.0419	0.1944	0.0421	09:58:26	Yes
2	3.316	3.316	0.0419	0.1936	0.0421	09:58:56	Yes
Mean:	3.315	3.315	0.0419				
SD:	0.002	0.002	0.0000				
%RSD:	0.058	0.058	0.06				

=====

Sequence No.: 14
Sample ID: 248159001|958764|1
Analyst: JXL

Autosampler Location: 14
Date Collected: 3/17/2010 09:59:16
Data Type: Original

Replicate Data: 248159001|958764|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.057	0.057	0.0010	0.0057	0.0012	10:00:07	Yes
2	0.056	0.056	0.0010	0.0058	0.0012	10:00:37	Yes
Mean:	0.057	0.057	0.0010				
SD:	0.001	0.001	0.0000				
%RSD:	1.266	1.266	0.90				

=====

Sequence No.: 15
Sample ID: 1202056201|958764|1
Analyst: JXL

Autosampler Location: 15
Date Collected: 3/17/2010 10:00:56
Data Type: Original

Replicate Data: 1202056201|958764|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.130	0.130	0.0019	0.0106	0.0021	10:01:46	Yes
2	0.139	0.139	0.0020	0.0121	0.0022	10:02:16	Yes
Mean:	0.134	0.134	0.0020				
SD:	0.006	0.006	0.0001				

1	0.355	0.355	0.0047	0.0229	0.0049	10:10:03	Yes
2	0.359	0.359	0.0048	0.0230	0.0050	10:10:33	Yes
Mean:	0.357	0.357	0.0048				
SD:	0.003	0.003	0.0000				
%RSD:	0.925	0.925	0.87				

Sequence No.: 21

Autosampler Location: 21

Sample ID: 248159004|958764|1

Date Collected: 3/17/2010 10:10:52

Analyst: JXL

Data Type: Original

Replicate Data: 248159004|958764|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.317	0.317	0.0043	0.0211	0.0045	10:11:44	Yes
2	0.321	0.321	0.0043	0.0210	0.0045	10:12:13	Yes
Mean:	0.319	0.319	0.0043				
SD:	0.002	0.002	0.0000				
%RSD:	0.716	0.716	0.67				

Sequence No.: 22

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/17/2010 10:12:33

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.209	5.209	0.0657	0.3013	0.0659	10:13:24	Yes
2	5.190	5.190	0.0655	0.2997	0.0657	10:13:54	Yes
Mean:	5.199	5.199	0.0656				
SD:	0.014	0.014	0.0002				
%RSD:	0.262	0.262	0.26				

QC value within limits for Hg 253.7 Recovery = 103.99%
All analyte(s) passed QC.

Sequence No.: 23

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/17/2010 10:14:13

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.013	-0.013	0.0001	0.0018	0.0003	10:15:03	Yes
2	-0.015	-0.015	0.0001	0.0017	0.0003	10:15:33	Yes
Mean:	-0.014	-0.014	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	10.04	10.04	17.02				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 24

Autosampler Location: 22

Sample ID: 248159005|958764|1

Date Collected: 3/17/2010 10:15:52

Analyst: JXL

Data Type: Original

Replicate Data: 248159005|958764|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.190	0.190	0.0027	0.0133	0.0029	10:16:44	Yes
2	0.187	0.187	0.0026	0.0131	0.0028	10:17:14	Yes
Mean:	0.188	0.188	0.0027				
SD:	0.002	0.002	0.0000				
%RSD:	1.003	1.003	0.89				

SD: 0.003 0.003 0.0000
%RSD: 4.214 4.214 3.12

Sequence No.: 30
Sample ID: 248171003|958764|1
Analyst: JXL

Autosampler Location: 28
Date Collected: 3/17/2010 10:25:59
Data Type: Original

Replicate Data: 248171003|958764|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.394	0.394	0.0052	0.0249	0.0054	10:26:49	Yes
2	0.389	0.389	0.0052	0.0243	0.0054	10:27:19	Yes
Mean:	0.392	0.392	0.0052				
SD:	0.003	0.003	0.0000				
%RSD:	0.863	0.863	0.82				

Sequence No.: 31
Sample ID: 248171004|958764|1
Analyst: JXL

Autosampler Location: 29
Date Collected: 3/17/2010 10:27:38
Data Type: Original

Replicate Data: 248171004|958764|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.269	0.269	0.0037	0.0180	0.0039	10:28:29	Yes
2	0.270	0.270	0.0037	0.0178	0.0039	10:28:59	Yes
Mean:	0.270	0.270	0.0037				
SD:	0.001	0.001	0.0000				
%RSD:	0.275	0.275	0.25				

Sequence No.: 32
Sample ID: 248171005|958764|1
Analyst: JXL

Autosampler Location: 30
Date Collected: 3/17/2010 10:29:18
Data Type: Original

Replicate Data: 248171005|958764|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	88.91	88.91	1.1169	6.6233	1.1171	10:30:09	Yes
2	88.18	88.18	1.1078	6.5621	1.1080	10:30:38	Yes
Mean:	88.54	88.54	1.1123				
SD:	0.512	0.512	0.0064				
%RSD:	0.578	0.578	0.58				

Sample concentration is greater than that of the highest standard.

Sample concentration is greater than that of the highest standard.

Sample concentration is greater than that of the highest standard.

Sequence No.: 33
Sample ID: 248176001|958764|1
Analyst: JXL

Autosampler Location: 31
Date Collected: 3/17/2010 10:30:57
Data Type: Original

Replicate Data: 248176001|958764|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.166	0.166	0.0024	0.0060	0.0026	10:31:48	Yes
2	0.173	0.173	0.0025	0.0095	0.0027	10:32:18	Yes
Mean:	0.169	0.169	0.0024				
SD:	0.005	0.005	0.0001				
%RSD:	3.035	3.035	2.67				

Sequence No.: 34
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 3/17/2010 10:32:37
Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.238	5.238	0.0661	0.3035	0.0663	10:33:28	Yes
2	5.207	5.207	0.0657	0.3015	0.0659	10:33:58	Yes
Mean:	5.222	5.222	0.0659				
SD:	0.022	0.022	0.0003				
%RSD:	0.428	0.428	0.43				

QC value within limits for Hg 253.7 Recovery = 104.45%
All analyte(s) passed QC.

=====

Sequence No.: 35

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/17/2010 10:34:17

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.018	0.018	0.0005	0.0027	0.0007	10:35:07	Yes
2	0.016	0.016	0.0005	0.0029	0.0007	10:35:37	Yes
Mean:	0.017	0.017	0.0005				
SD:	0.001	0.001	0.0000				
%RSD:	7.579	7.579	3.28				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 36

Sample ID: 248176002|958764|1

Analyst: JXL

Autosampler Location: 32

Date Collected: 3/17/2010 10:35:56

Data Type: Original

Replicate Data: 248176002|958764|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.740	0.740	0.0096	0.0448	0.0098	10:36:47	Yes
2	0.737	0.737	0.0095	0.0448	0.0097	10:37:17	Yes
Mean:	0.739	0.739	0.0096				
SD:	0.003	0.003	0.0000				
%RSD:	0.367	0.367	0.36				

=====

Sequence No.: 37

Sample ID: 248176003|958764|1

Analyst: JXL

Autosampler Location: 33

Date Collected: 3/17/2010 10:37:36

Data Type: Original

Replicate Data: 248176003|958764|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.251	0.251	0.0034	0.0166	0.0036	10:38:27	Yes
2	0.246	0.246	0.0034	0.0157	0.0036	10:38:57	Yes
Mean:	0.248	0.248	0.0034				
SD:	0.004	0.004	0.0000				
%RSD:	1.503	1.503	1.38				

=====

Sequence No.: 38

Sample ID: 248176004|958764|1

Analyst: JXL

Autosampler Location: 34

Date Collected: 3/17/2010 10:39:16

Data Type: Original

Replicate Data: 248176004|958764|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.047	0.047	0.0009	0.0048	0.0011	10:40:07	Yes
2	0.047	0.047	0.0009	0.0047	0.0011	10:40:37	Yes
Mean:	0.047	0.047	0.0009				

SD: 0.000 0.000 0.0000
%RSD: 0.188 0.188 0.13

Sequence No.: 39

Autosampler Location: 35

Sample ID: 248176005|958764|1

Date Collected: 3/17/2010 10:40:57

Analyst: JXL

Data Type: Original

Replicate Data: 248176005|958764|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.046	0.046	0.0009	0.0049	0.0011	10:41:48	Yes
2	0.044	0.044	0.0008	0.0046	0.0010	10:42:18	Yes
Mean:	0.045	0.045	0.0008				
SD:	0.001	0.001	0.0000				
%RSD:	3.117	3.117	2.06				

Sequence No.: 40

Autosampler Location: 36

Sample ID: 248176006|958764|1

Date Collected: 3/17/2010 10:42:38

Analyst: JXL

Data Type: Original

Replicate Data: 248176006|958764|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.180	0.180	0.0025	0.0126	0.0027	10:43:29	Yes
2	0.176	0.176	0.0025	0.0123	0.0027	10:43:59	Yes
Mean:	0.178	0.178	0.0025				
SD:	0.003	0.003	0.0000				
%RSD:	1.493	1.493	1.32				

Sequence No.: 41

Autosampler Location: 37

Sample ID: 1202056652|958993|1

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

Analyst: JXL

Data Type: Original

Replicate Data: 1202056652|958993|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.003	-0.003	0.0003	0.0022	0.0004	10:45:11	Yes
2	-0.006	-0.006	0.0002	0.0017	0.0004	10:45:41	Yes
Mean:	-0.005	-0.005	0.0002				
SD:	0.002	0.002	0.0000				
%RSD:	51.05	51.05	12.67				

Sequence No.: 42

Autosampler Location: 38

Sample ID: 1202056653|958993|10

Date Collected: 3/17/2010 10:46:01

Analyst: JXL

Data Type: Original

Replicate Data: 1202056653|958993|10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.980	3.980	0.0503	0.2321	0.0505	10:46:52	Yes
2	3.956	3.956	0.0500	0.2302	0.0502	10:47:22	Yes
Mean:	3.968	3.968	0.0501				
SD:	0.017	0.017	0.0002				
%RSD:	0.426	0.426	0.42				

Sequence No.: 43

Autosampler Location: 39

Sample ID: 248247001|958993|1

Date Collected: 3/17/2010 10:47:42

Analyst: JXL

Data Type: Original

Replicate Data: 248247001|958993|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
------	------------	---------	---------	------	------	------	------

#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.465	0.465	0.0061	0.0292	0.0063	10:48:33	Yes
2	0.465	0.465	0.0061	0.0286	0.0063	10:49:03	Yes
Mean:	0.465	0.465	0.0061				
SD:	0.000	0.000	0.0000				
%RSD:	0.048	0.048	0.05				

Sequence No.: 44
Sample ID: 248247002|958993|1
Analyst: JXL

Autosampler Location: 40
Date Collected: 3/17/2010 10:49:22
Data Type: Original

Replicate Data: 248247002|958993|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.881	0.881	0.0114	0.0529	0.0115	10:50:14	Yes
2	0.882	0.882	0.0114	0.0531	0.0116	10:50:43	Yes
Mean:	0.882	0.882	0.0114				
SD:	0.001	0.001	0.0000				
%RSD:	0.107	0.107	0.10				

Sequence No.: 45
Sample ID: 248247003|958993|1
Analyst: JXL

Autosampler Location: 41
Date Collected: 3/17/2010 10:51:03
Data Type: Original

Replicate Data: 248247003|958993|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.153	0.153	0.0022	0.0111	0.0024	10:51:54	Yes
2	0.153	0.153	0.0022	0.0111	0.0024	10:52:24	Yes
Mean:	0.153	0.153	0.0022				
SD:	0.000	0.000	0.0000				
%RSD:	0.015	0.015	0.01				

Sequence No.: 46
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 3/17/2010 10:52:44
Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.910	4.910	0.0620	0.2873	0.0622	10:53:34	Yes
2	4.916	4.916	0.0620	0.2864	0.0622	10:54:03	Yes
Mean:	4.913	4.913	0.0620				
SD:	0.004	0.004	0.0001				
%RSD:	0.084	0.084	0.08				

QC value within limits for Hg 253.7 Recovery = 98.27%
All analyte(s) passed QC.

Sequence No.: 47
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 3/17/2010 10:54:22
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.014	-0.014	0.0001	0.0012	0.0003	10:55:13	Yes
2	-0.013	-0.013	0.0001	0.0014	0.0003	10:55:43	Yes
Mean:	-0.014	-0.014	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	5.038	5.038	7.89				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 48

Sample ID: 248247004|958993|1

Analyst: JXL

Autosampler Location: 42

Date Collected: 3/17/2010 10:56:02

Data Type: Original

Replicate Data: 248247004|958993|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.765	0.765	0.0099	0.0464	0.0101	10:56:53	Yes
2	0.759	0.759	0.0098	0.0461	0.0100	10:57:23	Yes
Mean:	0.762	0.762	0.0099				
SD:	0.004	0.004	0.0001				
%RSD:	0.536	0.536	0.52				

Sequence No.: 49

Sample ID: 248247005|958993|1

Analyst: JXL

Autosampler Location: 43

Date Collected: 3/17/2010 10:57:43

Data Type: Original

Replicate Data: 248247005|958993|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.113	0.113	0.0017	0.0086	0.0019	10:58:33	Yes
2	0.114	0.114	0.0017	0.0088	0.0019	10:59:03	Yes
Mean:	0.114	0.114	0.0017				
SD:	0.001	0.001	0.0000				
%RSD:	0.868	0.868	0.72				

Sequence No.: 50

Sample ID: 248247006|958993|1

Analyst: JXL

Autosampler Location: 44

Date Collected: 3/17/2010 10:59:23

Data Type: Original

Replicate Data: 248247006|958993|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.251	0.251	0.0034	0.0167	0.0036	11:00:13	Yes
2	0.248	0.248	0.0034	0.0165	0.0036	11:00:43	Yes
Mean:	0.249	0.249	0.0034				
SD:	0.002	0.002	0.0000				
%RSD:	0.692	0.692	0.63				

Sequence No.: 51

Sample ID: 248247007|958993|1

Analyst: JXL

Autosampler Location: 45

Date Collected: 3/17/2010 11:01:03

Data Type: Original

Replicate Data: 248247007|958993|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.261	0.261	0.0036	0.0173	0.0038	11:01:53	Yes
2	0.262	0.262	0.0036	0.0175	0.0038	11:02:23	Yes
Mean:	0.261	0.261	0.0036				
SD:	0.001	0.001	0.0000				
%RSD:	0.348	0.348	0.32				

Sequence No.: 52

Sample ID: 248247008|958993|1

Analyst: JXL

Autosampler Location: 46

Date Collected: 3/17/2010 11:02:43

Data Type: Original

Replicate Data: 248247008|958993|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.285	0.285	0.0039	0.0187	0.0041	11:03:34	Yes
2	0.284	0.284	0.0039	0.0186	0.0040	11:04:04	Yes

Mean: 0.284 0.284 0.0039
SD: 0.000 0.000 0.0000
%RSD: 0.133 0.133 0.12

Sequence No.: 53

Sample ID: 248250001|958993|1

Analyst: JXL

Autosampler Location: 47

Date Collected: 3/17/2010 11:04:24

Data Type: Original

Replicate Data: 248250001|958993|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	6.370	6.370	0.0803	0.3825	0.0805	11:05:15	Yes
2	6.345	6.345	0.0800	0.3770	0.0802	11:05:45	Yes
Mean:	6.358	6.358	0.0801				
SD:	0.018	0.018	0.0002				
%RSD:	0.277	0.277	0.28				

Sequence No.: 54

Sample ID: 248250002|958993|1

Analyst: JXL

Autosampler Location: 48

Date Collected: 3/17/2010 11:06:05

Data Type: Original

Replicate Data: 248250002|958993|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.990	3.990	0.0504	0.2382	0.0506	11:06:57	Yes
2	3.931	3.931	0.0497	0.2341	0.0499	11:07:27	Yes
Mean:	3.960	3.960	0.0500				
SD:	0.041	0.041	0.0005				
%RSD:	1.042	1.042	1.04				

Sequence No.: 55

Sample ID: 248250003|958993|1

Analyst: JXL

Autosampler Location: 49

Date Collected: 3/17/2010 11:07:47

Data Type: Original

Replicate Data: 248250003|958993|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	6.057	6.057	0.0764	0.3598	0.0766	11:08:39	Yes
2	6.046	6.046	0.0762	0.3573	0.0764	11:09:09	Yes
Mean:	6.052	6.052	0.0763				
SD:	0.008	0.008	0.0001				
%RSD:	0.135	0.135	0.13				

Sequence No.: 56

Sample ID: 248250004|958993|1

Analyst: JXL

Autosampler Location: 50

Date Collected: 3/17/2010 11:09:29

Data Type: Original

Replicate Data: 248250004|958993|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.307	5.307	0.0669	0.3153	0.0671	11:10:20	Yes
2	5.267	5.267	0.0664	0.3117	0.0666	11:10:49	Yes
Mean:	5.287	5.287	0.0667				
SD:	0.028	0.028	0.0004				
%RSD:	0.531	0.531	0.53				

Sequence No.: 57

Sample ID: 248256001|958993|1

Analyst: JXL

Autosampler Location: 51

Date Collected: 3/17/2010 11:11:09

Data Type: Original

Replicate Data: 248256001|958993|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.138	1.138	0.0146	0.0672	0.0148	11:12:01	Yes
2	1.140	1.140	0.0146	0.0672	0.0148	11:12:30	Yes
Mean:	1.139	1.139	0.0146				
SD:	0.001	0.001	0.0000				
%RSD:	0.099	0.099	0.10				

Sequence No.: 58

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/17/2010 11:12:50

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.942	4.942	0.0623	0.2863	0.0625	11:13:41	Yes
2	4.917	4.917	0.0620	0.2843	0.0622	11:14:11	Yes
Mean:	4.929	4.929	0.0622				
SD:	0.017	0.017	0.0002				
%RSD:	0.353	0.353	0.35				

QC value within limits for Hg 253.7 Recovery = 98.59%
All analyte(s) passed QC.

Sequence No.: 59

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/17/2010 11:14:30

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.017	-0.017	0.0001	0.0010	0.0003	11:15:20	Yes
2	-0.013	-0.013	0.0001	0.0016	0.0003	11:15:50	Yes
Mean:	-0.015	-0.015	0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	14.68	14.68	28.15				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 60

Autosampler Location: 52

Sample ID: 1202056654|958993|1

Date Collected: 3/17/2010 11:16:09

Analyst: JXL

Data Type: Original

Replicate Data: 1202056654|958993|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.706	0.706	0.0092	0.0432	0.0093	11:17:00	Yes
2	0.706	0.706	0.0092	0.0426	0.0093	11:17:30	Yes
Mean:	0.706	0.706	0.0092				
SD:	0.000	0.000	0.0000				
%RSD:	0.011	0.011	0.01				

Sequence No.: 61

Autosampler Location: 53

Sample ID: 1202056655|958993|1

Date Collected: 3/17/2010 11:17:50

Analyst: JXL

Data Type: Original

Replicate Data: 1202056655|958993|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.922	2.922	0.0370	0.1708	0.0372	11:18:40	Yes
2	2.920	2.920	0.0370	0.1707	0.0372	11:19:10	Yes
Mean:	2.921	2.921	0.0370				
SD:	0.001	0.001	0.0000				
%RSD:	0.032	0.032	0.03				

Sequence No.: 62
Sample ID: 1202056657|958993|1
Analyst: JXL

Autosampler Location: 54
Date Collected: 3/17/2010 11:19:30
Data Type: Original

Replicate Data: 1202056657|958993|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.128	3.128	0.0396	0.1825	0.0398	11:20:21	Yes
2	3.080	3.080	0.0390	0.1807	0.0392	11:20:51	Yes
Mean:	3.104	3.104	0.0393				
SD:	0.034	0.034	0.0004				
%RSD:	1.080	1.080	1.07				

Sequence No.: 63
Sample ID: 1202056656|958993|5
Analyst: JXL

Autosampler Location: 55
Date Collected: 3/17/2010 11:21:10
Data Type: Original

Replicate Data: 1202056656|958993|5

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.210	0.210	0.0029	0.0142	0.0031	11:22:02	Yes
2	0.209	0.209	0.0029	0.0142	0.0031	11:22:31	Yes
Mean:	0.210	0.210	0.0029				
SD:	0.000	0.000	0.0000				
%RSD:	0.211	0.211	0.19				

Sequence No.: 64
Sample ID: 248256002|958993|1
Analyst: JXL

Autosampler Location: 56
Date Collected: 3/17/2010 11:22:51
Data Type: Original

Replicate Data: 248256002|958993|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.160	0.160	0.0023	0.0114	0.0025	11:23:42	Yes
2	0.160	0.160	0.0023	0.0113	0.0025	11:24:12	Yes
Mean:	0.160	0.160	0.0023				
SD:	0.000	0.000	0.0000				
%RSD:	0.048	0.048	0.04				

Sequence No.: 65
Sample ID: 248256003|958993|1
Analyst: JXL

Autosampler Location: 57
Date Collected: 3/17/2010 11:24:31
Data Type: Original

Replicate Data: 248256003|958993|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.972	0.972	0.0125	0.0580	0.0127	11:25:22	Yes
2	0.963	0.963	0.0124	0.0573	0.0126	11:25:52	Yes
Mean:	0.967	0.967	0.0124				
SD:	0.007	0.007	0.0001				
%RSD:	0.707	0.707	0.69				

Sequence No.: 66
Sample ID: 248256004|958993|1
Analyst: JXL

Autosampler Location: 58
Date Collected: 3/17/2010 11:26:12
Data Type: Original

Replicate Data: 248256004|958993|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.146	0.146	0.0021	0.0104	0.0023	11:27:03	Yes

2	0.141	0.141	0.0021	0.0099	0.0022	11:27:33	Yes
Mean:	0.143	0.143	0.0021				
SD:	0.004	0.004	0.0000				
%RSD:	2.686	2.686	2.32				

Sequence No.: 67

Sample ID: 248256005|958993|1

Analyst: JXL

Autosampler Location: 59

Date Collected: 3/17/2010 11:27:53

Data Type: Original

Replicate Data: 248256005|958993|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.010	0.010	0.0004	0.0023	0.0006	11:28:44	Yes
2	0.010	0.010	0.0004	0.0024	0.0006	11:29:14	Yes
Mean:	0.010	0.010	0.0004				
SD:	0.000	0.000	0.0000				
%RSD:	2.750	2.750	0.83				

Sequence No.: 68

Sample ID: 248256006|958993|1

Analyst: JXL

Autosampler Location: 60

Date Collected: 3/17/2010 11:29:34

Data Type: Original

Replicate Data: 248256006|958993|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.044	0.044	0.0008	0.0042	0.0010	11:30:26	Yes
2	0.042	0.042	0.0008	0.0042	0.0010	11:30:56	Yes
Mean:	0.043	0.043	0.0008				
SD:	0.001	0.001	0.0000				
%RSD:	2.360	2.360	1.54				

Sequence No.: 69

Sample ID: 248256007|958993|1

Analyst: JXL

Autosampler Location: 61

Date Collected: 3/17/2010 11:31:16

Data Type: Original

Replicate Data: 248256007|958993|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.109	0.109	0.0017	0.0080	0.0019	11:32:08	Yes
2	0.108	0.108	0.0016	0.0081	0.0018	11:32:37	Yes
Mean:	0.109	0.109	0.0017				
SD:	0.001	0.001	0.0000				
%RSD:	0.471	0.471	0.39				

Sequence No.: 70

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 3/17/2010 11:32:58

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.959	4.959	0.0626	0.2876	0.0628	11:33:48	Yes
2	4.953	4.953	0.0625	0.2870	0.0627	11:34:18	Yes
Mean:	4.956	4.956	0.0625				
SD:	0.004	0.004	0.0001				
%RSD:	0.086	0.086	0.09				

QC value within limits for Hg 253.7 Recovery = 99.12%
All analyte(s) passed QC.

Sequence No.: 71

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/17/2010 11:34:37

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.023	-0.023	0.0000	0.0002	0.0002	11:35:28	Yes
2	-0.023	-0.023	-0.0000	0.0002	0.0002	11:35:58	Yes
Mean:	-0.023	-0.023	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	2.227	2.227	274.82				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 72

Sample ID: 1202068551|964202|1

Analyst: JXL

Autosampler Location: 62

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

Data Type: Original

Replicate Data: 1202068551|964202|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.022	-0.022	0.0000	0.0002	0.0002	11:37:08	Yes
2	-0.023	-0.023	-0.0000	0.0003	0.0002	11:37:38	Yes
Mean:	-0.023	-0.023	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	2.685	2.685	422.20				

Sequence No.: 73

Sample ID: 1202068552|964202|10

Analyst: JXL

Autosampler Location: 63

Date Collected: 3/17/2010 11:37:58

Data Type: Original

Replicate Data: 1202068552|964202|10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.048	4.048	0.0511	0.2339	0.0513	11:38:49	Yes
2	4.059	4.059	0.0513	0.2340	0.0515	11:39:19	Yes
Mean:	4.053	4.053	0.0512				
SD:	0.008	0.008	0.0001				
%RSD:	0.194	0.194	0.19				

Sequence No.: 74

Sample ID: 248527002|964202|1

Analyst: JXL

Autosampler Location: 64

Date Collected: 3/17/2010 11:39:38

Data Type: Original

Replicate Data: 248527002|964202|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.092	0.092	0.0014	0.0069	0.0016	11:40:29	Yes
2	0.091	0.091	0.0014	0.0068	0.0016	11:40:59	Yes
Mean:	0.091	0.091	0.0014				
SD:	0.001	0.001	0.0000				
%RSD:	0.583	0.583	0.47				

Sequence No.: 75

Sample ID: 1202068553|964202|1

Analyst: JXL

Autosampler Location: 65

Date Collected: 3/17/2010 11:41:19

Data Type: Original

Replicate Data: 1202068553|964202|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.055	0.055	0.0010	0.0048	0.0012	11:42:10	Yes
2	0.058	0.058	0.0010	0.0049	0.0012	11:42:40	Yes
Mean:	0.057	0.057	0.0010				
SD:	0.002	0.002	0.0000				

Miscellaneous

Prep Logbook

Acid Digestion of Sediments, Sludges, and Soils

Batch ID: 959151.0 Verified by: _____ Lab SOP: GL-MA-E-009 REV# 19
Analyst: Louis Hall Instrument: Sartorius Balance B-001
Method: SW846 3050B

Sample ID	Run Date	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check
1202056985 MB	11-MAR-2010 10:00:00	0.559	50	89.44544	<2
1202056990 LCS	11-MAR-2010 10:00:00	0.51	50	98.03922	<2
248247001	11-MAR-2010 10:00:00	0.535	50	93.45794	<2
1202056986 DUP (248247001)	11-MAR-2010 10:00:00	0.53	50	94.33962	<2
1202056987 SDILT (248247001)	11-MAR-2010 10:00:00	0.535	50	93.45794	<2
1202056988 MS (248247001)	11-MAR-2010 10:00:00	0.545	50	91.74312	<2
1202056989 MSD (248247001)	11-MAR-2010 10:00:00	0.557	50	89.76661	<2
248247002	11-MAR-2010 10:00:00	0.521	50	95.96929	<2
248247003	11-MAR-2010 10:00:00	0.517	50	96.7118	<2
248247004	11-MAR-2010 10:00:00	0.51	50	98.03922	<2
248247005	11-MAR-2010 10:00:00	0.537	50	93.10987	<2
248247006	11-MAR-2010 10:00:00	0.541	50	92.42144	<2
248247007	11-MAR-2010 10:00:00	0.537	50	93.10987	<2
248247008	11-MAR-2010 10:00:00	0.512	50	97.65625	<2
248250001	11-MAR-2010 10:00:00	0.516	50	96.89922	<2
248250002	11-MAR-2010 10:00:00	0.519	50	96.33911	<2
248250003	11-MAR-2010 10:00:00	0.55	50	90.90909	<2
248250004	11-MAR-2010 10:00:00	0.508	50	98.4252	<2

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202056990	Metals Soil LCS SRM ICPMS	U062540-MS	.51	g	
MS	1202056988	ICP-MS Spike for soil products.	U042709-A	.5	mL	
MS	1202056988	ICP-MS Spike for Soil Products	U042709-B	.5	mL	
MSD	1202056989	ICP-MS Spike for soil products.	U042709-A	.5	mL	
MSD	1202056989	ICP-MS Spike for Soil Products	U042709-B	.5	mL	
REGNT	All	Hydrogen Peroxide 30%	1250038-02	1.5	mL	
REGNT	All	Nitric Acid CONC.	1277919	.5	mL	

Prep Logbook

Acid Digestion of Sediments, Sludges, and Soils

Batch ID: 959149.0 Analyst: Louis Hall Method: SW846 3050B Lab SOP: GL-MA-E-009 REV# 19 Instrument: Sartorius Balance B-001	Verified by:						
	Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units	
	LCS	1202056984	Metals Soil LCS SRM ICP/Hg	U1062540-1	.518	g	
	MS	1202056982	Metals Spike Mix I	U11268741-01	.25	mL	
	MS	1202056982	Metals Spike Mix II	U11268744-06	.25	mL	
	MSD	1202056983	Metals Spike Mix I	U11268741-01	.25	mL	
	MSD	1202056983	Metals Spike Mix II	U11268744-06	.25	mL	

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202056979 MB	11-MAR-2010 10:45:00	Soil	0.527	50	94.87666	<2
1202056984 LCS	11-MAR-2010 10:45:00	Soil	0.518	50	96.5251	<2
248247001	11-MAR-2010 10:45:00	Soil	0.525	50	95.2381	<2
1202056980 DUP (248247001)	11-MAR-2010 10:45:00	Soil	0.54	50	92.59259	<2
1202056981 SDILT (248247001)	11-MAR-2010 10:45:00	Soil	0.54	50	92.59259	<2
1202056982 MS (248247001)	11-MAR-2010 10:45:00	Soil	0.544	50	91.91176	<2
1202056983 MSD (248247001)	11-MAR-2010 10:45:00	Soil	0.536	50	93.28358	<2
248247002	11-MAR-2010 10:45:00	Soil	0.514	50	97.27626	<2
248247003	11-MAR-2010 10:45:00	Soil	0.522	50	95.78544	<2
248247004	11-MAR-2010 10:45:00	Soil	0.507	50	98.61933	<2
248247005	11-MAR-2010 10:45:00	Soil	0.523	50	95.60229	<2
248247006	11-MAR-2010 10:45:00	Soil	0.52	50	96.15385	<2
248247007	11-MAR-2010 10:45:00	Soil	0.505	50	99.0099	<2
248247008	11-MAR-2010 10:45:00	Soil	0.513	50	97.46589	<2
248250001	11-MAR-2010 10:45:00	Soil	0.509	50	98.23183	<2
248250002	11-MAR-2010 10:45:00	Soil	0.548	50	91.24088	<2
248250003	11-MAR-2010 10:45:00	Soil	0.511	50	97.84736	<2
248250004	11-MAR-2010 10:45:00	Soil	0.521	50	95.96929	<2

Reagent/Solvent Lot ID	Description	Amount	Comments:
1277916	HYDROCHLORIC ACID	10 mL	
1277919	Nitric Acid CONC.	1.25 mL	

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Batch ID: 958991.0
Analyst: Tara Griffin
Method: SW846 7471A Prep
Lab SOP: GL-MA-E-010 REV# 23
Instrument: BAL-002

Verified by: _____

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202056653	Metals LCS Soil SRM	U1031809A	.206	g
MS	1202056655	Mercury soil working intermediate standard for MS	WHG100316-14	.3	mL
MSD	1202056657	Mercury soil working intermediate standard for MS	WHG100316-14	.3	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202056652 MB	16-MAR-2010 12:55:00	Soil	0.545	30	55.04587	
1202056653 LCS	16-MAR-2010 12:55:00	Soil	0.206	30	145.63107	
248247001	16-MAR-2010 12:55:00	Soil	0.504	30	59.52381	
248247002	16-MAR-2010 12:55:00	Soil	0.554	30	54.15162	
248247003	16-MAR-2010 12:55:00	Soil	0.546	30	54.94505	
248247004	16-MAR-2010 12:55:00	Soil	0.558	30	53.76344	
248247005	16-MAR-2010 12:55:00	Soil	0.5	30	60	
248247006	16-MAR-2010 12:55:00	Soil	0.527	30	56.926	
248247007	16-MAR-2010 12:55:00	Soil	0.534	30	56.17978	
248247008	16-MAR-2010 12:55:00	Soil	0.559	30	53.66726	
248250001	16-MAR-2010 12:55:00	Soil	0.574	30	52.26481	
248250002	16-MAR-2010 12:55:00	Soil	0.505	30	59.40594	
248250003	16-MAR-2010 12:55:00	Soil	0.53	30	56.60377	
248250004	16-MAR-2010 12:55:00	Soil	0.543	30	55.24862	
248256001	16-MAR-2010 12:55:00	Soil	0.556	30	53.95683	
1202056654 DUP (248256001)	16-MAR-2010 12:55:00	Soil	0.549	30	54.64481	
1202056655 MS (248256001)	16-MAR-2010 12:55:00	Soil	0.5	30	60	
1202056657 MSD (248256001)	16-MAR-2010 12:55:00	Soil	0.534	30	56.17978	
1202056656 SDILT (248256001)	16-MAR-2010 12:55:00	Soil	0.556	30	53.95683	
248256002	16-MAR-2010 12:55:00	Soil	0.52	30	57.69231	
248256003	16-MAR-2010 12:55:00	Soil	0.527	30	56.926	
248256004	16-MAR-2010 12:55:00	Soil	0.549	30	54.64481	
248256005	16-MAR-2010 12:55:00	Soil	0.535	30	56.07477	
248256006	16-MAR-2010 12:55:00	Soil	0.502	30	59.76096	
248256007	16-MAR-2010 12:55:00	Soil	0.5	30	60	

Reagent/Solvent Lot ID **Description** **Amount**
 Analytical Logbook version 1 11-04-2002
 GEL Laboratories LLC

Prep Logbook

Batch ID: 958991.0
Analyst: Tara Griffin
Method: SW846 7471A Prep
Lab SOP: GL-MA-E-010 REV# 23
Instrument: BAL-002

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202056653	Metals LCS Soil SRM	U1031809A	.206	g
MS	1202056655	Mercury soil working intermediate standard for MS	WHG100316-14	.3	mL
MSD	1202056657	Mercury soil working intermediate standard for MS	WHG100316-14	.3	mL

Verified by:

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1255532-C	Hg reducing agent	2 mL				
1274391-1	NITRIC ACID	.375 mL				
1277235-A	Hydrochloric Acid Conc.	1.125 mL				
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				
WHG100316-09	Mercury Working 1st Source CAL S 2.0	300 uL				
WHG100316-10	Mercury Working 1st Source CAL S 5.0/CCV	750 uL				
WHG100316-11	Mercury Working 1st Source CAL S 10.0	1.5 mL				
WHG100316-12	Mercury Working 2nd Source S 5.0/ICV	750 uL				

Comments:

Sample 248256001 is a rocky brown soil.
 Digestion Start Date: 16-MAR-10 12:55
 Digestion End Date: 16-MAR-10 13:25

DATA EXCEPTION REPORT

Mo.Day Yr. 17-MAR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process			
Instrument Type: MERCURY	Test / Method: SW846 7471A	Matrix Type: Solid	Client Code: LANL			
Batch ID: 958993	Sample Numbers: See Below					
Potentially affected work order(s)(SDG): 248247(10-2138-1),248250(10-2141),248256(10-2146)						
Application Issues: Failed RPD for DUP						
Specification and Requirements Exception Description:		DER Disposition:				
1. Failed RPD for DUP: QC 1202056654DUP		1. The sample and sample duplicate % RPD failed outside the control limits for Hg due to possible sample non-homogeneity and/or matrix interference. Sample is a rocky, brown soil. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.				

Originator's Name:

Jason Loy

17-MAR-10

Data Validator/Group Leader:

Eric Lawson

18-MAR-10

DATA EXCEPTION REPORT

Mo.Day Yr. 06-APR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: ICP	Test / Method: SW846 3050B/6010B	Matrix Type: Solid	Client Code: LANL
Batch ID: 959150	Sample Numbers: See Below		
<p>Potentially affected work order(s)(SDG): 248247(10-2138-1),248250(10-2141)</p> <p>Application Issues:</p> <p>Failed Recovery for MS/PS Failed RPD for MS/MSD, or PS/PSD Method Blank contamination Failed RPD for DUP Failed Recovery for LCS/LCSD Failed Recovery for MSD/PSD</p>			
Specification and Requirements Exception Description:		DER Disposition:	
<p>1. Failed Recovery for MS/PS:</p> <p>QC 1202056982MS</p> <p>2. Failed RPD for DUP:</p> <p>QC 1202056980DUP</p> <p>3. Failed RPD for MS/MSD, or PS/PSD:</p> <p>QC 1202056983MSD</p> <p>4. Failed Recovery for LCS/LCSD:</p> <p>QC 1202056984LCS</p> <p>5. Failed Recovery for MSD/PSD:</p> <p>QC 1202056983MSD</p> <p>6. Method Blank Contamination:</p> <p>QC 1202056979MB</p>		<p>1. The matrix spike recovery failed outside of the control limits for calcium,lead,magnesium 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> <p>2. The sample and sample duplicate % RPD failed outside the control limits for calcium 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 lead 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 calcium,magnesium 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> <p>6. The samples in this SDG contained iron at concentrations more than ten times the amount present in the method blank (MB), therefore the data was not adversely affected</p>	

Originator's Name:

Helen Camello 09-APR-10

Data Validator/Group Leader:

Nik-Cole Elmore 15-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: UI042709-A **Opened:** 27-APR-09 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 27-APR-09 **Lot Number :** 1015749
Type: Source Material **Expires:** 27-APR-10
Employee: Bryan Davis
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

Serial ID: UI042709-B **Opened:** 27-APR-09 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 27-APR-09 **Lot Number :** 1015749
Type: Source Material **Expires:** 27-APR-10
Employee: Bryan Davis
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: 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
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Standard Logbook

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
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		

Standard Logbook

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		

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: O2Si
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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: 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
Vanadium	100 mg/L	Zinc	100 mg/L

Standard Logbook

Serial ID: UI091015-42 **Opened:** 28-OCT-09 **Amount :** 500 mL
Name: SI 1000mg/L **Received:** 15-OCT-09 **Catalog Number :** 060014-02-03
Type: Source Material **Expires:** 28-OCT-10 **Lot Number :** 1017581
Employee: Helen Camello **Solvent :** 0.3%H₂O(NH₄)₂SiF₆
Supplier: o2si
Description: Silicon 1000mg/L+/-0.3%in H₂O(NH₄)₂SiF₆
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091102-40 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1A SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-1-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930215
Employee: Helen Camello **Solvent :** HNO₃
Supplier: Environmental Express
Description: Trace Calibration Std #1A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2000 mg/L	Arsenic	200 mg/L
Barium	200 mg/L	Beryllium	200 mg/L
Boron	200 mg/L	Cadmium	200 mg/L
Calcium	2000 mg/L	Chromium	200 mg/L
Cobalt	200 mg/L	Copper	200 mg/L
Iron	2000 mg/L	Lead	200 mg/L
Magnesium	2000 mg/L	Manganese	200 mg/L
Nickel	200 mg/L	Phosphorous	1000 mg/L
Potassium	2000 mg/L	Selenium	200 mg/L
Sodium	2000 mg/L	Strontium	200 mg/L
Thallium	200 mg/L	Uranium	200 mg/L
Vanadium	200 mg/L	Zinc	200 mg/L

Serial ID: UI091102-41 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1B SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-2-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930216
Employee: Helen Camello **Solvent :** HNO₃
Supplier: Environmental Express
Description: Trace Calibration Standard #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	200 mg/L	Molybdenum	200 mg/L
Silver	200 mg/L	Sulfur	400 mg/L
Tin	200 mg/L	Titanium	200 mg/L

Standard Logbook

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 ICSEA **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 ICSEAB **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 Interferent Check Standard AB
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Antimony	500 ug/L
Arsenic	500 ug/L	Barium	500 ug/L
Beryllium	250 ug/L	Boron	500 ug/L
Cadmium	500 ug/L	Calcium	500000 ug/L
Chromium	500 ug/L	Cobalt	500 ug/L
Copper	500 ug/L	Iron	200000 ug/L
Lead	500 ug/L	Magnesium	500000 ug/L
Manganese	500 ug/L	Molybdenum	500 ug/L
Nickel	500 ug/L	Phosphorous	2500 ug/L
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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 IGV/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: 02SI
Description: ICPMS IGV/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 IGV/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: 02SI
Description: ICPMS IGV/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		

Serial ID: UI100317-08 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS IGV/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 IGV/CCV Soln C - 10ppm
Comments: None

Standard Logbook

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:** 15-APR-10 **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
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

Standard Logbook

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		

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: 02SI
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		

Standard Logbook

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
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
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Standard Logbook

Analyte	Concentration	Analyte	Concentration
Arsenic	10 mg/L	Barium	10 mg/L
Beryllium	10 mg/L	Boron	20 mg/L
Cadmium	10 mg/L	Chromium	10 mg/L
Cobalt	10 mg/L	Copper	10 mg/L
Lead	10 mg/L	Lithium	10 mg/L
Manganese	10 mg/L	Nickel	10 mg/L
Selenium	10 mg/L	Silver	10 mg/L
Strontium	10 mg/L	Thallium	10 mg/L
Thorium	10 mg/L	Uranium	10 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UMS100226-02 **Opened:** 26-FEB-10 **Catalog Number :** ZGEL-102-250
Name: ICPMSCalSPIKEA **Received:** 26-FEB-10 **Lot Number :** 21-103JB
Type: Source Material **Expires:** 26-FEB-11
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Phosphorous	1000 mg/L	Potassium	1000 mg/L
Sodium	1000 mg/L		

Serial ID: UMS100226-03 **Opened:** 26-FEB-10 **Amount :** 250 ml
Name: ICPMSCalSPIKEC **Received:** 26-FEB-10 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-102JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10 mg/L	Molybdenum	10 mg/L
Tin	10 mg/L	Titanium	10 mg/L
Zirconium	10 mg/L		

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

Standard Logbook

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: MHGWORKCALSO.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: MHGWORKCALSO.5 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 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: MHGWORKCALSO.2 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

Standard Logbook

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
 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

Standard Logbook

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: 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 **Expires:** 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
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

Standard Logbook

Serial ID: W1100331-43 **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
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

Standard Logbook

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
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

Standard Logbook

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 ICPV **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
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: 02sj
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
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100413-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: <u>WMS100413-05</u>	Opened: <u>13-APR-10</u>	Balance Id : <u>40245216</u>
Name: <u>ICPMS ICV</u>	Received: <u>13-APR-10</u>	Pipet Id : <u>3541598</u>
Type: <u>Working</u>	Expires: <u>14-APR-10</u>	Solvent : <u>2%HNO_3/1%HCl - 1300209</u>
Employee: <u>Paul Boyd</u>		
Supplier: <u>GEL</u>		
Description: <u>ICPMS ICV</u>		
Comments: <u>None</u>		

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
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

Standard Logbook

Serial ID: WMS100413-06
Name: ICPMS CRDL
Type: Working
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Opened: 13-APR-10 **Balance Id :** 40245216
Received: 13-APR-10 **Pipet Id :** 3820544
Expires: 14-APR-10 **Solvent :** 2%HNO3/1%HCl - 1300209

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Standard Logbook

Serial ID: 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
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
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

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

Standard Logbook

Serial ID: 125532-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

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1156689-A	B-KMnO4(VWR)-MER	Crystals	50 g	1000 mL	3%

Serial ID: 1277916 **Opened:** 02-MAR-10 **Lot Number :** J02039
Name: I-HCL **Received:** 02-MAR-10 **Preservative Id :** 5 none
Type: Reagent/Solvent **Expires:** 02-MAR-11
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID

Standard Logbook

Comments: None

Serial ID: 1277919 Opened: 02-MAR-10 Lot Number : J 04043 L
 Name: I-HNO3 Received: 02-MAR-10
 Type: Reagent/Solvent Expires: 02-MAR-11
 Employee: Francena Armstrong
 Supplier: BAKER
 Description: Nitric Acid CONC.
 Comments: None

Serial ID: 1291278 Opened: 25-MAR-10 Lot Number : J 08035 L
 Name: I-HNO3 Received: 25-MAR-10
 Type: Reagent/Solvent Expires: 25-MAR-11
 Employee: Anthony Green
 Supplier: BAKER
 Description: Nitric Acid CONC.
 Comments: None

Serial ID: 1293083 Opened: 29-MAR-10 Amount : 20 L
 Name: B-ICP-RINSE SOLN Received: 29-MAR-10 Lot Number : H04040+G34050
 Type: Reagent/Solvent Expires: 04-APR-10 Solvent : 3%HCL+1%HNO3
 Employee: Helen Camello
 Supplier: GEL
 Description: 3%HCL+1%HNO3 RINSE SOLN.
 Comments: None

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

General Chemistry Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2138**

Method/Analysis Information

Product:	Cyanide, Total		
Analytical Batch:	959217	Method:	SW9012A Cyanide and Total
Prep Batch :	959216	Method:	SSW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
248245001	RE36-10-8493
1202057161	Method Blank (MB)
1202057162	248188001(RE11-10-1654) Sample Duplicate (DUP)
1202057163	248044005(CAPA-10-13085) Sample Duplicate (DUP)
1202057164	248188001(RE11-10-1654) Matrix Spike (MS)
1202057165	248044005(CAPA-10-13085) Matrix Spike (MS)
1202057166	248188001(RE11-10-1654) Matrix Spike Duplicate (MSD)
1202057167	248044005(CAPA-10-13085) Matrix Spike Duplicate (MSD)
1202057168	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-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: 248044005 (CAPA-10-13085) and 248188001 (RE11-10-1654).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recoveries for this sample set were within the required acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this sample set were within the required acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPDs between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The values for the sample and duplicate are less than the Practical Quantitation Limit (PQL); therefore, the RPD is not applicable. 1202057163 (CAPA-10-13085).

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 samples in this SDG did not require dilutions.

Sample Re-analysis

The following sample was re-analyzed due to instrument failure: 1202057164 (RE11-10-1654).

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.

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:

Nick-Cole A. Emone Date: 3.24.10

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: 10-2138 GEL Work Order: 248245

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

Nick-Cole A. Elmore 3.24.10

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 17, 2010

Client SDG: 10-2138

Client Sample ID: RE36-10-8493
Sample ID: 248245001
Matrix: W
Collect Date: 24-FEB-10 12:00
Receive Date: 27-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "As Received"</i>											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	03/08/10	1535	959217	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/08/10	1241	959216

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Quality Control Summary

GEL LABORATORIES LLC

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

QC Summary

Report Date: March 17, 2010

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

Contact: Ms. Joylene Valdez

Workorder: 248245

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Flow Injection Analysis											
Batch	959217										
QC1202057162	248188001	DUP									
Cyanide, Total		U	ND	U	ND	ug/L	N/A		AXC2	03/08/10	15:24
QC1202057163	248044005	DUP									
Cyanide, Total		U	ND	U	ND	ug/L	N/A			03/08/10	15:07
QC1202057168	LCS										
Cyanide, Total	50.0				49.3	ug/L	98.6	(90%-110%)		03/08/10	15:05
QC1202057161	MB										
Cyanide, Total			U		5.00	ug/L				03/08/10	15:05
QC1202057164	248188001	MS									
Cyanide, Total	100	U	ND		106	ug/L	106	(60%-144%)		03/08/10	15:37
QC1202057165	248044005	MS									
Cyanide, Total	100	U	ND		101	ug/L	101	(60%-144%)		03/08/10	15:08
QC1202057166	248188001	MSD									
Cyanide, Total	100	U	ND		110	ug/L	3.70	110	(0%-20%)	03/08/10	15:30
QC1202057167	248044005	MSD									
Cyanide, Total	100	U	ND		105	ug/L	3.88	105	(0%-20%)	03/08/10	15:09

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.

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 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.

GEL LABORATORIES LLC

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QC Summary

Workorder: 248245

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	QC Samples were not spiked with this compound										
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
d	5-day BOD--The 2:1 depletion requirement was not met for this sample										
h	Preparation or preservation holding time was exceeded										

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: 17-MAR-2010 15:58

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-2138

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	08-MAR-2010 10:32:54	OM_3-8-2010_10-24-48	147	150	98	(90%-110%)	Yes
CCV	08-MAR-2010 15:01:26	OM_3-8-2010_14-58-05	103	100	103	(90%-110%)	Yes
CCV	08-MAR-2010 15:13:54	OM_3-8-2010_14-58-05	106	100	106	(90%-110%)	Yes
CCV	08-MAR-2010 15:26:19	OM_3-8-2010_14-58-05	109	100	109	(90%-110%)	Yes
CCV	08-MAR-2010 15:38:47	OM_3-8-2010_14-58-05	104	100	104	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	08-MAR-2010 10:34:44	OM_3-8-2010_10-24-48	-1.65	10	Yes
CCB	08-MAR-2010 15:03:15	OM_3-8-2010_14-58-05	-1.49	10	Yes
CCB	08-MAR-2010 15:15:44	OM_3-8-2010_14-58-05	-1.84	10	Yes
CCB	08-MAR-2010 15:28:11	OM_3-8-2010_14-58-05	-1.78	10	Yes
CCB	08-MAR-2010 15:40:39	OM_3-8-2010_14-58-05	-0.768	10	Yes

Cyanide, Total

Prep Logbook

Cyanide Sample Distillation

Batch ID:	959216.0	Verified by:		Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
Analyst:	Alan Stanley			LCS	1202057168	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.0125	mL
Method:	SW846 9010B Prep EPA 335.4			MS	1202057164	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
Lab SOP:	GL-GC-E-067 REV# 13			MS	1202057165	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
Instrument:	Sartorius Balance B-001			MSD	1202057166	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
				MSD	1202057167	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202057161 MB	08-MAR-2010 12:41:00	Water	25	25	1	>12
1202057168 LCS	08-MAR-2010 12:41:00	Water	25	25	1	>12
248044005	08-MAR-2010 12:41:00	Ground Water	25	25	1	>12
1202057163 DUP (248044005)	08-MAR-2010 12:41:00	Ground Water	25	25	1	>12
1202057165 MS (248044005)	08-MAR-2010 12:41:00	Ground Water	25	25	1	>12
1202057167 MSD (248044005)	08-MAR-2010 12:41:00	Ground Water	25	25	1	>12
248044006	08-MAR-2010 12:41:00	Ground Water	25	25	1	>12
248108001	08-MAR-2010 12:41:00	Water	25	25	1	>12
248117001	08-MAR-2010 12:41:00	Water	25	25	1	>12
248127002	08-MAR-2010 12:41:00	Water	25	25	1	>12
248162001	08-MAR-2010 12:41:00	Water	25	25	1	>12
248162002	08-MAR-2010 12:41:00	Water	25	25	1	>12
248162003	08-MAR-2010 12:41:00	Water	25	25	1	>12
248162004	08-MAR-2010 12:41:00	Water	25	25	1	>12
248164002	08-MAR-2010 12:41:00	Ground Water	25	25	1	>12
248168006	08-MAR-2010 12:41:00	Water	25	25	1	>12
248169004	08-MAR-2010 12:41:00	Water	25	25	1	>12
248188001	08-MAR-2010 12:41:00	Water	25	25	1	>12
1202057162 DUP (248188001)	08-MAR-2010 12:41:00	Water	25	25	1	>12
1202057164 MS (248188001)	08-MAR-2010 12:41:00	Water	25	25	1	>12

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Batch ID: 959216.0
Analyst: Alan Stanley
Method: SW846 9010B Prep EPA 335.4
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	1202057168	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.0125	mL
MS	1202057164	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MS	1202057165	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MSD	1202057166	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MSD	1202057167	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202057166 MSD (248188001)	08-MAR-2010 12:41:00	Water	25	25	1	>12
248199001	08-MAR-2010 12:41:00	Water	25	25	1	>12
248238001	08-MAR-2010 12:41:00	Water	25	25	1	>12
248238002	08-MAR-2010 12:41:00	Water	25	25	1	>12
248242001	08-MAR-2010 12:41:00	Water	25	25	1	>12
248245001	08-MAR-2010 12:41:00	Water	25	25	1	>12
248257001	08-MAR-2010 12:41:00	Water	25	25	1	>12
248257002	08-MAR-2010 12:41:00	Water	25	25	1	>12

Reagent/Solvent Lot ID	Description	Amount	Comments:
1260189-C	50% H2SO4 CN Prep	2.5 mL	
1270661-C	Bismuth Nitrate Solution	1.25 mL	
1270663-C	0.8N H3NO3S	1.25 mL	
1270669-C	51% MgCl2 Soln	1 mL	
1273851-C	0.25N Sodium Hydroxide Solution	25 mL	
WCN100308-07	150 ppb CN Distilled ICV Standard	.0375 mL	

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	3/8/2010 10:25:45	OM_3-8-2010_10-24-48
150 ppb		1	axc2	3/8/2010 10:26:37	OM_3-8-2010_10-24-48
100 ppb		1	axc2	3/8/2010 10:27:29	OM_3-8-2010_10-24-48
50 ppb		1	axc2	3/8/2010 10:28:22	OM_3-8-2010_10-24-48
10 ppb		1	axc2	3/8/2010 10:29:15	OM_3-8-2010_10-24-48
CRDL 5.0 ppb		1	axc2	3/8/2010 10:30:09	OM_3-8-2010_10-24-48
ICAL-00		1	axc2	3/8/2010 10:31:03	OM_3-8-2010_10-24-48
ICV		1	axc2	3/8/2010 10:32:54	OM_3-8-2010_10-24-48
ICB		1	axc2	3/8/2010 10:34:44	OM_3-8-2010_10-24-48
CRDL		1	axc2	3/8/2010 10:36:34	OM_3-8-2010_10-24-48
1202054789	958168	1	axc2	3/8/2010 10:38:23	OM_3-8-2010_10-24-48
1202054796	958168	1	axc2	3/8/2010 10:39:17	OM_3-8-2010_10-24-48
248010001	958168	1	axc2	3/8/2010 10:40:10	OM_3-8-2010_10-24-48
1202054790	958168	1	axc2	3/8/2010 10:41:03	OM_3-8-2010_10-24-48
1202054792	958168	1	axc2	3/8/2010 10:41:56	OM_3-8-2010_10-24-48
1202054794	958168	1	axc2	3/8/2010 10:42:48	OM_3-8-2010_10-24-48
248010002	958168	1	axc2	3/8/2010 10:43:42	OM_3-8-2010_10-24-48
248019001	958168	1	axc2	3/8/2010 10:44:34	OM_3-8-2010_10-24-48
248019002	958168	1	axc2	3/8/2010 10:45:26	OM_3-8-2010_10-24-48
248023002	958168	1	axc2	3/8/2010 10:46:19	OM_3-8-2010_10-24-48
CCV		1	axc2	3/8/2010 10:47:11	OM_3-8-2010_10-24-48
CCB		1	axc2	3/8/2010 10:49:01	OM_3-8-2010_10-24-48
248024001	958168	1	axc2	3/8/2010 10:50:50	OM_3-8-2010_10-24-48
248024003	958168	1	axc2	3/8/2010 10:51:41	OM_3-8-2010_10-24-48
248044002	958168	1	axc2	3/8/2010 10:52:34	OM_3-8-2010_10-24-48
1202054791	958168	1	axc2	3/8/2010 10:53:25	OM_3-8-2010_10-24-48
1202054793	958168	1	axc2	3/8/2010 10:54:17	OM_3-8-2010_10-24-48
1202054795	958168	1	axc2	3/8/2010 10:55:10	OM_3-8-2010_10-24-48
248401005	958168	1	axc2	3/8/2010 10:56:04	OM_3-8-2010_10-24-48
248516001	958168	1	axc2	3/8/2010 10:56:58	OM_3-8-2010_10-24-48
248516002	958168	1	axc2	3/8/2010 10:57:51	OM_3-8-2010_10-24-48
248518001	958168	1	axc2	3/8/2010 10:58:44	OM_3-8-2010_10-24-48
CCV		1	axc2	3/8/2010 10:59:36	OM_3-8-2010_10-24-48
CCB		1	axc2	3/8/2010 11:01:27	OM_3-8-2010_10-24-48
248533001	958168	1	axc2	3/8/2010 11:03:16	OM_3-8-2010_10-24-48
248548001	958168	1	axc2	3/8/2010 11:04:09	OM_3-8-2010_10-24-48
248548003	958168	1	axc2	3/8/2010 11:05:01	OM_3-8-2010_10-24-48
248551001	958168	1	axc2	3/8/2010 11:05:54	OM_3-8-2010_10-24-48
248551002	958168	1	axc2	3/8/2010 11:06:46	OM_3-8-2010_10-24-48
248555002	958168	1	axc2	3/8/2010 11:07:39	OM_3-8-2010_10-24-48
1202059721	960271	1	axc2	3/8/2010 11:08:31	OM_3-8-2010_10-24-48
1202059731	960271	1	axc2	3/8/2010 11:09:23	OM_3-8-2010_10-24-48
248072001	960271	1	axc2	3/8/2010 11:10:15	OM_3-8-2010_10-24-48
1202059722	960271	1	axc2	3/8/2010 11:11:06	OM_3-8-2010_10-24-48
CCV		1	axc2	3/8/2010 11:11:59	OM_3-8-2010_10-24-48
CCB		1	axc2	3/8/2010 11:13:49	OM_3-8-2010_10-24-48
1202059725	960271	1	axc2	3/8/2010 11:15:40	OM_3-8-2010_10-24-48
1202059728	960271	1	axc2	3/8/2010 11:16:33	OM_3-8-2010_10-24-48
248072002	960271	1	axc2	3/8/2010 11:17:27	OM_3-8-2010_10-24-48
248072003	960271	1	axc2	3/8/2010 11:18:21	OM_3-8-2010_10-24-48
248097001	960271	1	axc2	3/8/2010 11:19:14	OM_3-8-2010_10-24-48
1202059724	960271	1	axc2	3/8/2010 11:20:07	OM_3-8-2010_10-24-48
1202059727	960271	1	axc2	3/8/2010 11:21:00	OM_3-8-2010_10-24-48
1202059730	960271	1	axc2	3/8/2010 11:21:53	OM_3-8-2010_10-24-48
248097002	960271	1	axc2	3/8/2010 11:22:47	OM_3-8-2010_10-24-48
248097003	960271	1	axc2	3/8/2010 11:23:38	OM_3-8-2010_10-24-48
CCV		1	axc2	3/8/2010 11:24:31	OM_3-8-2010_10-24-48
CCB		1	axc2	3/8/2010 11:26:21	OM_3-8-2010_10-24-48

248097004	960271	1	axc2	3/8/2010	11:28:09	OM_3-8-2010_10-24-48
248298001	960271	1	axc2	3/8/2010	11:29:02	OM_3-8-2010_10-24-48
248298002	960271	1	axc2	3/8/2010	11:29:53	OM_3-8-2010_10-24-48
248298003	960271	1	axc2	3/8/2010	11:30:46	OM_3-8-2010_10-24-48
248303001	960271	1	axc2	3/8/2010	11:31:38	OM_3-8-2010_10-24-48
248337001	960271	1	axc2	3/8/2010	11:32:32	OM_3-8-2010_10-24-48
248375001	960271	1	axc2	3/8/2010	11:33:26	OM_3-8-2010_10-24-48
248375002	960271	1	axc2	3/8/2010	11:34:19	OM_3-8-2010_10-24-48
248397001	960271	1	axc2	3/8/2010	11:35:14	OM_3-8-2010_10-24-48
248397002	960271	1	axc2	3/8/2010	11:36:06	OM_3-8-2010_10-24-48
CCV		1	axc2	3/8/2010	11:37:00	OM_3-8-2010_10-24-48
CCB		1	axc2	3/8/2010	11:38:51	OM_3-8-2010_10-24-48
248407001	960271	1	axc2	3/8/2010	11:40:39	OM_3-8-2010_10-24-48
1202059723	960271	1	axc2	3/8/2010	11:41:33	OM_3-8-2010_10-24-48
1202059726	960271	1	axc2	3/8/2010	11:42:26	OM_3-8-2010_10-24-48
1202059729	960271	1	axc2	3/8/2010	11:43:19	OM_3-8-2010_10-24-48
248419001	960271	1	axc2	3/8/2010	11:44:11	OM_3-8-2010_10-24-48
248419002	960271	1	axc2	3/8/2010	11:45:04	OM_3-8-2010_10-24-48
1202053300	957584	1	axc2	3/8/2010	11:45:57	OM_3-8-2010_10-24-48
1202053310	957584	1	axc2	3/8/2010	11:46:49	OM_3-8-2010_10-24-48
247829002	957584	1	axc2	3/8/2010	11:47:41	OM_3-8-2010_10-24-48
1202053302	957584	1	axc2	3/8/2010	11:48:33	OM_3-8-2010_10-24-48
CCV		1	axc2	3/8/2010	11:49:26	OM_3-8-2010_10-24-48
CCB		1	axc2	3/8/2010	11:51:15	OM_3-8-2010_10-24-48
1202053305	957584	1	axc2	3/8/2010	11:53:05	OM_3-8-2010_10-24-48
1202053308	957584	1	axc2	3/8/2010	11:54:00	OM_3-8-2010_10-24-48
247865010	957584	1	axc2	3/8/2010	11:54:55	OM_3-8-2010_10-24-48
247865012	957584	1	axc2	3/8/2010	11:55:48	OM_3-8-2010_10-24-48
1202053303	957584	1	axc2	3/8/2010	11:56:41	OM_3-8-2010_10-24-48
1202053306	957584	1	axc2	3/8/2010	11:57:35	OM_3-8-2010_10-24-48
1202053309	957584	1	axc2	3/8/2010	11:58:28	OM_3-8-2010_10-24-48
247865013	957584	1	axc2	3/8/2010	11:59:21	OM_3-8-2010_10-24-48
247865014	957584	1	axc2	3/8/2010	12:00:15	OM_3-8-2010_10-24-48
247865015	957584	1	axc2	3/8/2010	12:01:07	OM_3-8-2010_10-24-48
CCV		1	axc2	3/8/2010	12:02:00	OM_3-8-2010_10-24-48
CCB		1	axc2	3/8/2010	12:03:51	OM_3-8-2010_10-24-48
247865016	957584	1	axc2	3/8/2010	12:05:41	OM_3-8-2010_10-24-48
247865017	957584	1	axc2	3/8/2010	12:06:33	OM_3-8-2010_10-24-48
247865018	957584	1	axc2	3/8/2010	12:07:25	OM_3-8-2010_10-24-48
247865019	957584	1	axc2	3/8/2010	12:08:18	OM_3-8-2010_10-24-48
247865020	957584	1	axc2	3/8/2010	12:09:10	OM_3-8-2010_10-24-48
247866001	957584	1	axc2	3/8/2010	12:10:05	OM_3-8-2010_10-24-48
247919001	957584	1	axc2	3/8/2010	12:10:59	OM_3-8-2010_10-24-48
247919002	957584	1	axc2	3/8/2010	12:11:53	OM_3-8-2010_10-24-48
247922004	957584	1	axc2	3/8/2010	12:12:48	OM_3-8-2010_10-24-48
1202053301	957584	1	axc2	3/8/2010	12:13:41	OM_3-8-2010_10-24-48
CCV		1	axc2	3/8/2010	12:14:34	OM_3-8-2010_10-24-48
CCB		1	axc2	3/8/2010	12:16:24	OM_3-8-2010_10-24-48
1202053304	957584	1	axc2	3/8/2010	12:18:14	OM_3-8-2010_10-24-48
1202053307	957584	1	axc2	3/8/2010	12:19:07	OM_3-8-2010_10-24-48
248164004	957584	1	axc2	3/8/2010	12:20:01	OM_3-8-2010_10-24-48
248382002	957584	1	axc2	3/8/2010	12:20:54	OM_3-8-2010_10-24-48
248382003	957584	1	axc2	3/8/2010	12:21:47	OM_3-8-2010_10-24-48
248401002	957584	1	axc2	3/8/2010	12:22:40	OM_3-8-2010_10-24-48
248401004	957584	1	axc2	3/8/2010	12:23:33	OM_3-8-2010_10-24-48
CCV		1	axc2	3/8/2010	12:24:25	OM_3-8-2010_10-24-48
CCB		1	axc2	3/8/2010	12:26:15	OM_3-8-2010_10-24-48

Original Run Filename: OM_3-8-2010_10-24-48.OMN created 3/8/2010 10:24:48
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_3-8-2010_10-24-48.OMN last modified 3/8/2010 12:27:20
 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)				
WCN100308-01	1	S1	200	10.4	3/8/2010@10:25:45			200 ppb
WCN100308-02	1	S2	150	7.82	3/8/2010@10:26:37			150 ppb
WCN100308-03	1	S3	100	5.36	3/8/2010@10:27:29			100 ppb
WCN100308-04	1	S4	50.0	2.85	3/8/2010@10:28:22			50 ppb
WCN100308-05	1	S5	10.0	0.644	3/8/2010@10:29:15			10 ppb
WCN100308-06	1	S6	5.00	0.400	3/8/2010@10:30:09			CRDL 5.0 ppb
WCN100308-08	1	S7	0.00	-0.0189	3/8/2010@10:31:03			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99976 > 0.99500					
Message			Pass					
Action			Continue					
WCN100308-07	1	S8	147	7.72	3/8/2010@10:32:54			ICV
Known Conc:			150					
DOM Test: > + Percent Relative Difference								
Result:			-2.1 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-2.1 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100308-08	1	S7	-1.65	0.0363	3/8/2010@10:34:44			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.65 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.65 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100308-06	1	S6	5.25	0.393	3/8/2010@10:36:34			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			5.25 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			5.25 > 2.50					
Message			Pass					
Action			None					
1202054789|958168|MB	1	1	-1.83	0.0269	3/8/2010@10:38:23			
1202054796|LCS	1	2	50.4	2.73	3/8/2010@10:39:17			
248010001	1	3	-1.53	0.0427	3/8/2010@10:40:10			
1202054790|DUP	1	4	-1.69	0.0344	3/8/2010@10:41:03			
1202054792|MS	1	5	114	6.01	3/8/2010@10:41:56			
1202054794|MSD	1	6	111	5.86	3/8/2010@10:42:48			
248010002	1	7	-1.44	0.0471	3/8/2010@10:43:42			
248019001	1	8	-1.39	0.0498	3/8/2010@10:44:34			
248019002	1	9	-1.40	0.0491	3/8/2010@10:45:26			
248023002	1	10	-1.75	0.0312	3/8/2010@10:46:19			
WCN100308-03	1	S3	105	5.54	3/8/2010@10:47:11			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			4.8 < 10.0					

			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	4.8 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100308-08	1	S7		-1.67	0.0352	3/8/2010@10:49:01		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	-1.67 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-1.67 > -5.00				
			Message	CCB Passed				
			Action	Continue				
248024001	1	11		-2.29	0.00319	3/8/2010@10:50:50		
248024003	1	12		-0.940	0.0730	3/8/2010@10:51:41		
248044002	1	13		-1.78	0.0297	3/8/2010@10:52:34		
1202054791|DUP	1	14		-1.89	0.0237	3/8/2010@10:53:25		
1202054793|MS	1	15		113	5.97	3/8/2010@10:54:17		
1202054795|MSD	1	16		94.5	5.01	3/8/2010@10:55:10		
248401005	1	17		-2.36	-4.50e-4	3/8/2010@10:56:04		
248516001	1	18		-1.70	0.0336	3/8/2010@10:56:58		
248516002	1	19		-2.03	0.0168	3/8/2010@10:57:51		
248518001	1	20		-2.35	3.13e-4	3/8/2010@10:58:44		
WCN100308-03	1	S3		107	5.64	3/8/2010@10:59:36		CCV
			Known Conc:	100				
DQM Test: > + Percent Relative Difference								
			Result:	6.6 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	6.6 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100308-08	1	S7		-1.82	0.0275	3/8/2010@11:01:27		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	-1.82 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-1.82 > -5.00				
			Message	CCB Passed				
			Action	Continue				
248533001	1	21		-1.85	0.0260	3/8/2010@11:03:16		
248548001	1	22		-2.24	0.00579	3/8/2010@11:04:09		
248548003	1	23		-1.45	0.0465	3/8/2010@11:05:01		
248551001	1	24		-0.552	0.0931	3/8/2010@11:05:54		
248551002	1	25		-1.81	0.0281	3/8/2010@11:06:46		
248555002	1	26		-1.99	0.0185	3/8/2010@11:07:39		
1202059721|960271|MB	1	27		-1.70	0.0339	3/8/2010@11:08:31		
1202059731|LCS	1	28		49.0	2.66	3/8/2010@11:09:23		
248072001	1	29		-2.36	-5.25e-4	3/8/2010@11:10:15		
1202059722|DUP	1	30		-1.95	0.0206	3/8/2010@11:11:06		
WCN100308-03	1	S3		105	5.54	3/8/2010@11:11:59		CCV
			Known Conc:	100				
DQM Test: > + Percent Relative Difference								
			Result:	4.7 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	4.7 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100308-08	1	S7		-1.72	0.0325	3/8/2010@11:13:49		CCB
			Known Conc:	0.00				

DQM Test: > + Concentration Limit									
Result:		-1.72 < 5.00							
Message		CCB Passed							
Action		Continue							
DQM Test: < - Concentration Limit									
Result:		-1.72 > -5.00							
Message		CCB Passed							
Action		Continue							
1202059725	MS	1	31	102	5.41	3/8/2010@11:15:40			
1202059728	MSD	1	32	101	5.33	3/8/2010@11:16:33			
248072002		1	33	-1.30	0.0543	3/8/2010@11:17:27			
248072003		1	34	-2.90	-0.0286	3/8/2010@11:18:21			
248097001		1	35	-1.88	0.0245	3/8/2010@11:19:14			
1202059724	DUP	1	36	-1.58	0.0398	3/8/2010@11:20:07			
1202059727	MS	1	37	100	5.32	3/8/2010@11:21:00			
1202059730	MSD	1	38	102	5.39	3/8/2010@11:21:53			
248097002		1	39	12.3	0.757	3/8/2010@11:22:47			
248097003		1	40	-1.04	0.0680	3/8/2010@11:23:38			
WCN100308-03		1	S3	106	5.63	3/8/2010@11:24:31			CCV
Known Conc:		100							
DQM Test: > + Percent Relative Difference									
Result:		6.4 < 10.0							
Message		CCV Passed							
Action		Continue							
DQM Test: < - Percent Relative Difference									
Result:		6.4 < 10.0							
Message		CCV Passed							
Action		Continue							
WCN100308-08		1	S7	-1.68	0.0346	3/8/2010@11:26:21			CCB
Known Conc:		0.00							
DQM Test: > + Concentration Limit									
Result:		-1.68 < 5.00							
Message		CCB Passed							
Action		Continue							
DQM Test: < - Concentration Limit									
Result:		-1.68 > -5.00							
Message		CCB Passed							
Action		Continue							
248097004		1	41	-0.871	0.0766	3/8/2010@11:28:09			
248298001		1	42	-1.67	0.0350	3/8/2010@11:29:02			
248298002		1	43	-1.93	0.0216	3/8/2010@11:29:53			
248298003		1	44	-0.109	0.116	3/8/2010@11:30:46			
248303001		1	45	2.92	0.273	3/8/2010@11:31:38			
248337001		1	46	-2.49	-0.00692	3/8/2010@11:32:32			
248375001		1	47	-2.35	1.70e-4	3/8/2010@11:33:26			
248375002		1	48	-2.05	0.0157	3/8/2010@11:34:19			
248397001		1	49	-1.87	0.0247	3/8/2010@11:35:14			
248397002		1	50	-2.17	0.00925	3/8/2010@11:36:06			
WCN100308-03		1	S3	106	5.62	3/8/2010@11:37:00			CCV
Known Conc:		100							
DQM Test: > + Percent Relative Difference									
Result:		6.2 < 10.0							
Message		CCV Passed							
Action		Continue							
DQM Test: < - Percent Relative Difference									
Result:		6.2 < 10.0							
Message		CCV Passed							
Action		Continue							
WCN100308-08		1	S7	-2.34	8.36e-4	3/8/2010@11:38:51			CCB
Known Conc:		0.00							
DQM Test: > + Concentration Limit									
Result:		-2.34 < 5.00							
Message		CCB Passed							
Action		Continue							
DQM Test: < - Concentration Limit									
Result:		-2.34 > -5.00							
Message		CCB Passed							
Action		Continue							

248407001	1	51	-1.69	0.0345	3/8/2010@11:40:39		
1202059723||DUP	1	52	-2.37	-0.00102	3/8/2010@11:41:33		
1202059726||MS	1	53	104	5.51	3/8/2010@11:42:26		
1202059729||MSD	1	54	82.4	4.39	3/8/2010@11:43:19		
248419001	1	55	-1.45	0.0465	3/8/2010@11:44:11		
248419002	1	56	-1.82	0.0276	3/8/2010@11:45:04		
1202053300|957584|MB	1	57	-1.77	0.0301	3/8/2010@11:45:57		
1202053310||LCS	1	58	52.0	2.81	3/8/2010@11:46:49		
247829002	1	59	-1.36	0.0515	3/8/2010@11:47:41		
1202053302||DUP	1	60	-1.35	0.0518	3/8/2010@11:48:33		
WCN100308-03	1	S3	107	5.65	3/8/2010@11:49:26		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				
WCN100308-08	1	S7	-1.71	0.0332	3/8/2010@11:51:15		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.71 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.71 > -5.00				
Message			CCB Passed				
Action			Continue				
1202053305||MS	1	61	108	5.71	3/8/2010@11:53:05		
1202053308||MSD	1	62	108	5.72	3/8/2010@11:54:00		
247865010	1	63	-1.12	0.0636	3/8/2010@11:54:55		
247865012	1	64	-1.20	0.0593	3/8/2010@11:55:48		
1202053303||DUP	1	65	-1.53	0.0427	3/8/2010@11:56:41		
1202053306||MS	1	66	86.3	4.59	3/8/2010@11:57:35		
1202053309||MSD	1	67	102	5.39	3/8/2010@11:58:28		
247865013	1	68	-1.42	0.0483	3/8/2010@11:59:21		
247865014	1	69	-1.44	0.0472	3/8/2010@12:00:15		
247865015	1	70	-1.50	0.0439	3/8/2010@12:01:07		
WCN100308-03	1	S3	106	5.63	3/8/2010@12:02:00		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			6.4 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			6.4 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100308-08	1	S7	-1.63	0.0372	3/8/2010@12:03:51		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.63 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.63 > -5.00				
Message			CCB Passed				
Action			Continue				
247865016	1	71	-1.63	0.0374	3/8/2010@12:05:41		
247865017	1	72	-1.38	0.0501	3/8/2010@12:06:33		
247865018	1	73	-2.31	0.00203	3/8/2010@12:07:25		
247865019	1	74	-1.70	0.0337	3/8/2010@12:08:18		
247865020	1	75	-1.21	0.0589	3/8/2010@12:09:10		
247866001	1	76	-1.82	0.0273	3/8/2010@12:10:05		
247919001	1	77	-1.59	0.0392	3/8/2010@12:10:59		
247919002	1	78	-1.41	0.0486	3/8/2010@12:11:53		

247922004	1	79	0.739	0.160	3/8/2010@12:12:48		
1202053301||DUP	1	80	0.641	0.155	3/8/2010@12:13:41		
WCN100308-03	1	S3	107	5.65	3/8/2010@12:14:34		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			6.8 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			6.8 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100308-08	1	S7	-1.86	0.0256	3/8/2010@12:16:24		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.86 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.86 > -5.00				
Message			CCB Passed				
Action			Continue				
1202053304||MS	1	81	98.2	5.21	3/8/2010@12:18:14		
1202053307||MSD	1	82	98.4	5.21	3/8/2010@12:19:07		
248164004	1	83	-1.49	0.0445	3/8/2010@12:20:01		
248382002	1	84	-1.58	0.0400	3/8/2010@12:20:54		
248382003	1	85	-1.82	0.0273	3/8/2010@12:21:47		
248401002	1	86	-1.52	0.0428	3/8/2010@12:22:40		
248401004	1	87	-1.38	0.0501	3/8/2010@12:23:33		
WCN100308-03	1	S3	106	5.59	3/8/2010@12:24:25		CCV
Known Conc:			100				
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				
WCN100308-08	1	S7	-1.71	0.0334	3/8/2010@12:26:15		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.71 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.71 > -5.00				
Message			CCB Passed				
Action			Continue				

Analyte Properties Table for OM_3-8-2010_10-24-48.OMN

Property	Channel 1
	TCYANIDE
Concentration Units	ug/L
Calibration Fit Type	First Order
Clear Calibration	True
Force Through Zero	False
Calibration Weighting	None
Auto Dilution Trigger	True
% of High Standard	100
Quik Chem Method	10-204-00-1-A
Chemistry	Direct/Bipolar
Calibration by Height	False
Inject to Peak Start	22
Peak Base Width	39

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	10.4	0.692	0.2	3/8/2010	10:26:48
2	150	1	7.82	0.567	0.7	3/8/2010	10:27:40
3	100	1	5.36	0.353	-1.3	3/8/2010	10:28:32
4	50.0	1	2.85	0.199	-5.1	3/8/2010	10:29:25
5	10.0	1	0.644	0.0420	-0.6	3/8/2010	10:30:18
6	5.00	1	0.400	0.0240	-4.6	3/8/2010	10:31:12
7	0.00	1	-0.0189	-0.00306		3/8/2010	10:32:06

Peak Area(V.s)

TCYANIDE concentration, ug/L

Area = 0.0517 * Conc + 0.124
 Conc = 19.3 * Area - 2.35
 Correlation Coefficient (r) = 0.99976

No Weighting

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
CCV		1	axc2	3/8/2010 15:01:26	OM_3-8-2010_14-58-05
CCB		1	axc2	3/8/2010 15:03:15	OM_3-8-2010_14-58-05
1202057161	959217	1	axc2	3/8/2010 15:05:05	OM_3-8-2010_14-58-05
1202057168	959217	1	axc2	3/8/2010 15:05:58	OM_3-8-2010_14-58-05
248044005	959217	1	axc2	3/8/2010 15:06:52	OM_3-8-2010_14-58-05
1202057163	959217	1	axc2	3/8/2010 15:07:45	OM_3-8-2010_14-58-05
1202057165	959217	1	axc2	3/8/2010 15:08:38	OM_3-8-2010_14-58-05
1202057167	959217	1	axc2	3/8/2010 15:09:31	OM_3-8-2010_14-58-05
248044006	959217	1	axc2	3/8/2010 15:10:24	OM_3-8-2010_14-58-05
248108001	959217	1	axc2	3/8/2010 15:11:16	OM_3-8-2010_14-58-05
248117001	959217	1	axc2	3/8/2010 15:12:08	OM_3-8-2010_14-58-05
248127002	959217	1	axc2	3/8/2010 15:13:02	OM_3-8-2010_14-58-05
CCV		1	axc2	3/8/2010 15:13:54	OM_3-8-2010_14-58-05
CCB		1	axc2	3/8/2010 15:15:44	OM_3-8-2010_14-58-05
248162001	959217	1	axc2	3/8/2010 15:17:33	OM_3-8-2010_14-58-05
248162002	959217	1	axc2	3/8/2010 15:18:25	OM_3-8-2010_14-58-05
248162003	959217	1	axc2	3/8/2010 15:19:17	OM_3-8-2010_14-58-05
248162004	959217	1	axc2	3/8/2010 15:20:09	OM_3-8-2010_14-58-05
248164002	959217	1	axc2	3/8/2010 15:21:00	OM_3-8-2010_14-58-05
248168006	959217	1	axc2	3/8/2010 15:21:55	OM_3-8-2010_14-58-05
248169004	959217	1	axc2	3/8/2010 15:22:48	OM_3-8-2010_14-58-05
248188001	959217	1	axc2	3/8/2010 15:23:41	OM_3-8-2010_14-58-05
1202057162	959217	1	axc2	3/8/2010 15:24:34	OM_3-8-2010_14-58-05
1202057164*	959217	1	axc2	3/8/2010 15:25:27	OM_3-8-2010_14-58-05
CCV		1	axc2	3/8/2010 15:26:19	OM_3-8-2010_14-58-05
CCB		1	axc2	3/8/2010 15:28:11	OM_3-8-2010_14-58-05
1202057166	959217	1	axc2	3/8/2010 15:30:01	OM_3-8-2010_14-58-05
248199001	959217	1	axc2	3/8/2010 15:30:54	OM_3-8-2010_14-58-05
248238001	959217	1	axc2	3/8/2010 15:31:46	OM_3-8-2010_14-58-05
248238002	959217	1	axc2	3/8/2010 15:32:39	OM_3-8-2010_14-58-05
1202057164*	959217	1	axc2	3/8/2010 15:33:32	OM_3-8-2010_14-58-05
248242001	959217	1	axc2	3/8/2010 15:34:25	OM_3-8-2010_14-58-05
248245001	959217	1	axc2	3/8/2010 15:35:17	OM_3-8-2010_14-58-05
248257001	959217	1	axc2	3/8/2010 15:36:09	OM_3-8-2010_14-58-05
248257002	959217	1	axc2	3/8/2010 15:37:01	OM_3-8-2010_14-58-05
1202057164	959217	1	axc2	3/8/2010 15:37:54	OM_3-8-2010_14-58-05
CCV		1	axc2	3/8/2010 15:38:47	OM_3-8-2010_14-58-05
CCB		1	axc2	3/8/2010 15:40:39	OM_3-8-2010_14-58-05
1202057112	959204	1	axc2	3/8/2010 15:42:28	OM_3-8-2010_14-58-05
1202057119	959204	25	axc2	3/8/2010 15:43:18	OM_3-8-2010_14-58-05
248110001	959204	1	axc2	3/8/2010 15:44:13	OM_3-8-2010_14-58-05
248110002	959204	1	axc2	3/8/2010 15:45:07	OM_3-8-2010_14-58-05
248110003	959204	1	axc2	3/8/2010 15:46:00	OM_3-8-2010_14-58-05
248110004	959204	1	axc2	3/8/2010 15:46:54	OM_3-8-2010_14-58-05
248110005	959204	1	axc2	3/8/2010 15:47:47	OM_3-8-2010_14-58-05
248110006	959204	1	axc2	3/8/2010 15:48:41	OM_3-8-2010_14-58-05
248110007	959204	1	axc2	3/8/2010 15:49:33	OM_3-8-2010_14-58-05
248110008	959204	1	axc2	3/8/2010 15:50:26	OM_3-8-2010_14-58-05
CCV		1	axc2	3/8/2010 15:51:19	OM_3-8-2010_14-58-05
CCB		1	axc2	3/8/2010 15:53:09	OM_3-8-2010_14-58-05
248118001	959204	1	axc2	3/8/2010 15:54:59	OM_3-8-2010_14-58-05
248118002	959204	1	axc2	3/8/2010 15:55:52	OM_3-8-2010_14-58-05
248118003	959204	1	axc2	3/8/2010 15:56:45	OM_3-8-2010_14-58-05
248118004	959204	1	axc2	3/8/2010 15:57:37	OM_3-8-2010_14-58-05
248118005	959204	1	axc2	3/8/2010 15:58:28	OM_3-8-2010_14-58-05
248118006	959204	1	axc2	3/8/2010 15:59:22	OM_3-8-2010_14-58-05
248118007	959204	1	axc2	3/8/2010 16:00:13	OM_3-8-2010_14-58-05
248189001	959204	1	axc2	3/8/2010 16:01:07	OM_3-8-2010_14-58-05

1202057113	959204	1	axc2	3/8/2010	16:02:01	OM_3-8-2010_14-58-05
1202057115	959204	1	axc2	3/8/2010	16:02:55	OM_3-8-2010_14-58-05
CCV		1	axc2	3/8/2010	16:03:48	OM_3-8-2010_14-58-05
CCB		1	axc2	3/8/2010	16:05:39	OM_3-8-2010_14-58-05
1202057117	959204	1	axc2	3/8/2010	16:07:29	OM_3-8-2010_14-58-05
248189002	959204	1	axc2	3/8/2010	16:08:23	OM_3-8-2010_14-58-05
1202057114	959204	1	axc2	3/8/2010	16:09:16	OM_3-8-2010_14-58-05
1202057116	959204	1	axc2	3/8/2010	16:10:09	OM_3-8-2010_14-58-05
1202057118	959204	1	axc2	3/8/2010	16:11:02	OM_3-8-2010_14-58-05
1202054781	958165	1	axc2	3/8/2010	16:11:55	OM_3-8-2010_14-58-05
1202054788	958165	25	axc2	3/8/2010	16:12:47	OM_3-8-2010_14-58-05
247918001	958165	1	axc2	3/8/2010	16:13:39	OM_3-8-2010_14-58-05
247918002	958165	1	axc2	3/8/2010	16:14:33	OM_3-8-2010_14-58-05
247918003	958165	1	axc2	3/8/2010	16:15:25	OM_3-8-2010_14-58-05
CCV		1	axc2	3/8/2010	16:16:17	OM_3-8-2010_14-58-05
CCB		1	axc2	3/8/2010	16:18:09	OM_3-8-2010_14-58-05
247918004	958165	1	axc2	3/8/2010	16:19:58	OM_3-8-2010_14-58-05
1202054782	958165	1	axc2	3/8/2010	16:20:49	OM_3-8-2010_14-58-05
1202054784	958165	1	axc2	3/8/2010	16:21:44	OM_3-8-2010_14-58-05
1202054786	958165	1	axc2	3/8/2010	16:22:39	OM_3-8-2010_14-58-05
247918005	958165	1	axc2	3/8/2010	16:23:32	OM_3-8-2010_14-58-05
1202054783	958165	1	axc2	3/8/2010	16:24:26	OM_3-8-2010_14-58-05
1202054785	958165	1	axc2	3/8/2010	16:25:20	OM_3-8-2010_14-58-05
1202054787	958165	1	axc2	3/8/2010	16:26:12	OM_3-8-2010_14-58-05
247918006	958165	1	axc2	3/8/2010	16:27:06	OM_3-8-2010_14-58-05
247918007	958165	1	axc2	3/8/2010	16:28:00	OM_3-8-2010_14-58-05
CCV		1	axc2	3/8/2010	16:28:51	OM_3-8-2010_14-58-05
CCB		1	axc2	3/8/2010	16:30:42	OM_3-8-2010_14-58-05
248009001	958165	1	axc2	3/8/2010	16:32:32	OM_3-8-2010_14-58-05
248009002	958165	1	axc2	3/8/2010	16:33:25	OM_3-8-2010_14-58-05
248009003	958165	1	axc2	3/8/2010	16:34:17	OM_3-8-2010_14-58-05
248009004	958165	1	axc2	3/8/2010	16:35:10	OM_3-8-2010_14-58-05
248009005	958165	1	axc2	3/8/2010	16:36:03	OM_3-8-2010_14-58-05
248025001	958165	1	axc2	3/8/2010	16:36:55	OM_3-8-2010_14-58-05
248025002	958165	1	axc2	3/8/2010	16:37:48	OM_3-8-2010_14-58-05
248025004	958165	1	axc2	3/8/2010	16:38:42	OM_3-8-2010_14-58-05
248025006	958165	1	axc2	3/8/2010	16:39:36	OM_3-8-2010_14-58-05
248422001	958165	1	axc2	3/8/2010	16:40:31	OM_3-8-2010_14-58-05
CCV		1	axc2	3/8/2010	16:41:23	OM_3-8-2010_14-58-05
CCB		1	axc2	3/8/2010	16:43:15	OM_3-8-2010_14-58-05
248422002	958165	1	axc2	3/8/2010	16:45:06	OM_3-8-2010_14-58-05
1202061930	961278	1	axc2	3/8/2010	16:46:01	OM_3-8-2010_14-58-05
1202061932	961278	1	axc2	3/8/2010	16:46:53	OM_3-8-2010_14-58-05
247819001	961278	1	axc2	3/8/2010	16:47:47	OM_3-8-2010_14-58-05
1202061931	961278	1	axc2	3/8/2010	16:48:41	OM_3-8-2010_14-58-05
CCV		1	axc2	3/8/2010	16:49:33	OM_3-8-2010_14-58-05
CCB		1	axc2	3/8/2010	16:51:24	OM_3-8-2010_14-58-05

Original Run Filename: OM_3-8-2010_14-58-05.OMN created 3/8/2010 14:58:05
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_3-8-2010_14-58-05.OMN last modified 3/8/2010 16:52:28
 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)				
WCN100308-03	1	S3	103	5.47	3/8/2010@15:01:26			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			3.3 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			3.3 < 10.0					
Message			CCV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100308-08	1	S7	-1.49	0.0446	3/8/2010@15:03:15			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.49 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.49 > -5.00					
Message			CCB Passed					
Action			Continue					
1202057161 959217|MB	1	1	-2.52	-0.00888	3/8/2010@15:05:05			
1202057168|LCS	1	2	49.3	2.67	3/8/2010@15:05:58			
248044005	1	3	-2.52	-0.00856	3/8/2010@15:06:52			
1202057163|DUP	1	4	-2.04	0.0161	3/8/2010@15:07:45			
1202057165|MS	1	5	101	5.35	3/8/2010@15:08:38			
1202057167|MSD	1	6	105	5.56	3/8/2010@15:09:31			
248044006	1	7	-1.95	0.0206	3/8/2010@15:10:24			
248108001	1	8	-2.52	-0.00848	3/8/2010@15:11:16			
248117001	1	9	-2.48	-0.00645	3/8/2010@15:12:08			
248127002	1	10	-0.731	0.0839	3/8/2010@15:13:02			
WCN100308-03	1	S3	106	5.63	3/8/2010@15:13:54			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			6.4 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			6.4 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100308-08	1	S7	-1.84	0.0265	3/8/2010@15:15:44			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.84 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.84 > -5.00					
Message			CCB Passed					
Action			Continue					
248162001	1	11	-2.35	1.80e-4	3/8/2010@15:17:33			
248162002	1	12	-2.05	0.0154	3/8/2010@15:18:25			
248162003	1	13	-2.14	0.0108	3/8/2010@15:19:17			
248162004	1	14	-2.03	0.0167	3/8/2010@15:20:09			
248164002	1	15	-1.57	0.0404	3/8/2010@15:21:00			

248168006	1	16	-1.99	0.0187	3/8/2010@15:21:55		
248169004	1	17	-1.56	0.0412	3/8/2010@15:22:48		
248188001	1	18	-2.03	0.0168	3/8/2010@15:23:41		
1202057162||DUP	1	19	-2.31	0.00215	3/8/2010@15:24:34		
1202057164||MS	1	20	70.7	3.78	3/8/2010@15:25:27		
WCN100308-03	1	S3	109	5.76	3/8/2010@15:26:19		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			9.0 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			9.0 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100308-08	1	S7	-1.78	0.0295	3/8/2010@15:28:11		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.78 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.78 > -5.00				
Message			CCB Passed				
Action			Continue				
1202057166||MSD	1	21	110	5.81	3/8/2010@15:30:01		
248199001	1	22	-1.68	0.0348	3/8/2010@15:30:54		
248238001	1	23	-1.98	0.0191	3/8/2010@15:31:46		
248238002	1	24	-1.94	0.0214	3/8/2010@15:32:39		
1202057164||MS	1	20	71.8	3.84	3/8/2010@15:33:32		
248242001	1	25	-1.93	0.0217	3/8/2010@15:34:25		
248245001	1	26	-2.35	1.99e-4	3/8/2010@15:35:17		
248257001	1	27	-2.49	-0.00739	3/8/2010@15:36:09		
248257002	1	28	-1.86	0.0256	3/8/2010@15:37:01		
1202057164||MS	1	20	106	5.61	3/8/2010@15:37:54		
WCN100308-03	1	S3	104	5.52	3/8/2010@15:38:47		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			4.3 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			4.3 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100308-08	1	S7	-0.768	0.0819	3/8/2010@15:40:39		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-0.768 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-0.768 > -5.00				
Message			CCB Passed				
Action			Continue				
1202057112|959204|MB	1	29	-2.19	0.00819	3/8/2010@15:42:28		
1202057119||LCS	1	30	31.1	1.73	3/8/2010@15:43:18	25.00	
248110001	1	31	-0.304	0.106	3/8/2010@15:44:13		
248110002	1	32	-1.46	0.0463	3/8/2010@15:45:07		
248110003	1	33	-2.31	0.00237	3/8/2010@15:46:00		
248110004	1	34	-2.16	0.00990	3/8/2010@15:46:54		
248110005	1	35	-0.698	0.0856	3/8/2010@15:47:47		
248110006	1	36	-1.47	0.0458	3/8/2010@15:48:41		
248110007	1	37	-1.24	0.0576	3/8/2010@15:49:33		
248110008	1	38	-0.761	0.0823	3/8/2010@15:50:26		
WCN100308-03	1	S3	106	5.60	3/8/2010@15:51:19		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							

Result:			5.9 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			5.9 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100308-08	1	S7	-1.95	0.0205	3/8/2010@15:53:09		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.95 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.95 > -5.00				
Message			CCB Passed				
Action			Continue				
248118001	1	39	0.0365	0.124	3/8/2010@15:54:59		
248118002	1	40	-2.19	0.00813	3/8/2010@15:55:52		
248118003	1	41	-0.754	0.0827	3/8/2010@15:56:45		
248118004	1	42	-1.55	0.0414	3/8/2010@15:57:37		
248118005	1	43	-1.86	0.0257	3/8/2010@15:58:28		
248118006	1	44	-0.195	0.112	3/8/2010@15:59:22		
248118007	1	45	-2.48	-0.00657	3/8/2010@16:00:13		
248189001	1	46	1.50	0.200	3/8/2010@16:01:07		
1202057113||DUP	1	47	1.10	0.179	3/8/2010@16:02:01		
1202057115||MS	1	48	98.4	5.21	3/8/2010@16:02:55		
WCN100308-03	1	S3	106	5.63	3/8/2010@16:03:48		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				
WCN100308-08	1	S7	-2.33	0.00121	3/8/2010@16:05:39		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-2.33 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-2.33 > -5.00				
Message			CCB Passed				
Action			Continue				
1202057117||MSD	1	49	97.7	5.18	3/8/2010@16:07:29		
248189002	1	50	0.509	0.148	3/8/2010@16:08:23		
1202057114||DUP	1	51	0.322	0.138	3/8/2010@16:09:16		
1202057116||MS	1	52	93.9	4.98	3/8/2010@16:10:09		
1202057118||MSD	1	53	93.9	4.98	3/8/2010@16:11:02		
1202054781|958165|MB	1	54	-2.89	-0.0281	3/8/2010@16:11:55		
1202054788||LCS	1	55	20.3	1.17	3/8/2010@16:12:47	25.00	
247918001	1	56	-1.17	0.0613	3/8/2010@16:13:39		
247918002	1	57	-1.63	0.0371	3/8/2010@16:14:33		
247918003	1	58	-2.35	2.32e-4	3/8/2010@16:15:25		
WCN100308-03	1	S3	106	5.59	3/8/2010@16:16:17		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			5.7 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			5.7 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100308-08	1	S7	-2.61	-0.0134	3/8/2010@16:18:09		CCB

Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-2.61 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-2.61 > -5.00					
Message			CCB Passed					
Action			Continue					
247918004	1	59	-1.83	0.0268	3/8/2010@16:19:58			
1202054782	DUP	1	60	-1.86	0.0252	3/8/2010@16:20:49		
1202054784	MS	1	61	88.6	4.71	3/8/2010@16:21:44		
1202054786	MSD	1	62	102	5.39	3/8/2010@16:22:39		
247918005		1	63	-1.63	0.0372	3/8/2010@16:23:32		
1202054783	DUP	1	64	-2.35	2.22e-4	3/8/2010@16:24:26		
1202054785	MS	1	65	103	5.44	3/8/2010@16:25:20		
1202054787	MSD	1	66	99.0	5.24	3/8/2010@16:26:12		
247918006		1	67	-0.953	0.0724	3/8/2010@16:27:06		
247918007		1	68	0.145	0.129	3/8/2010@16:28:00		
WCN100308-03		1	S3	105	5.54	3/8/2010@16:28:51		CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			4.6 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			4.6 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100308-08	1	S7	-2.34	4.90e-4	3/8/2010@16:30:42			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-2.34 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-2.34 > -5.00					
Message			CCB Passed					
Action			Continue					
248009001	1	69	-2.44	-0.00446	3/8/2010@16:32:32			
248009002	1	70	-1.42	0.0484	3/8/2010@16:33:25			
248009003	1	71	2.15	0.233	3/8/2010@16:34:17			
248009004	1	72	-1.18	0.0606	3/8/2010@16:35:10			
248009005	1	73	-2.05	0.0157	3/8/2010@16:36:03			
248025001	1	74	-2.44	-0.00448	3/8/2010@16:36:55			
248025002	1	75	-1.60	0.0388	3/8/2010@16:37:48			
248025004	1	76	-0.787	0.0809	3/8/2010@16:38:42			
248025006	1	77	-0.371	0.102	3/8/2010@16:39:36			
248422001	1	78	-2.28	0.00369	3/8/2010@16:40:31			
WCN100308-03	1	S3	102	5.40	3/8/2010@16:41:23			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			2.0 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			2.0 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100308-08	1	S7	-2.30	0.00277	3/8/2010@16:43:15			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-2.30 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-2.30 > -5.00					
Message			CCB Passed					

		Action	Continue					
248422002	1	79	-1.20	0.0595	3/8/2010@16:45:06			
1202061930|961278|MB	1	80	-1.83	0.0272	3/8/2010@16:46:01			
1202061932||LCS	1	81	-1.96	0.0203	3/8/2010@16:46:53			
247819001	1	82	110	5.83	3/8/2010@16:47:47			
1202061931||DUP	1	83	184	9.64	3/8/2010@16:48:41			
WCN100308-03	1	S3	106	5.59	3/8/2010@16:49:33			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			5.7 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			5.7 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100308-08	1	S7	-2.34	3.67e-4	3/8/2010@16:51:24			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-2.34 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-2.34 > -5.00					
Message			CCB Passed					
Action			Continue					

Analyte Properties Table for OM_3-8-2010_14-58-05.OMN

Property	Channel 1 TCYANIDE
Concentration Units	ug/L
Calibration Fit Type	First Order
Clear Calibration	True
Force Through Zero	False
Calibration Weighting	None
Auto Dilution Trigger	True
% of High Standard	100
Quik Chem Method	10-204-00-1-A
Chemistry	Direct/Bipolar
Calibration by Height	False
Inject to Peak Start	22
Peak Base Width	39

Channel 1: Current View

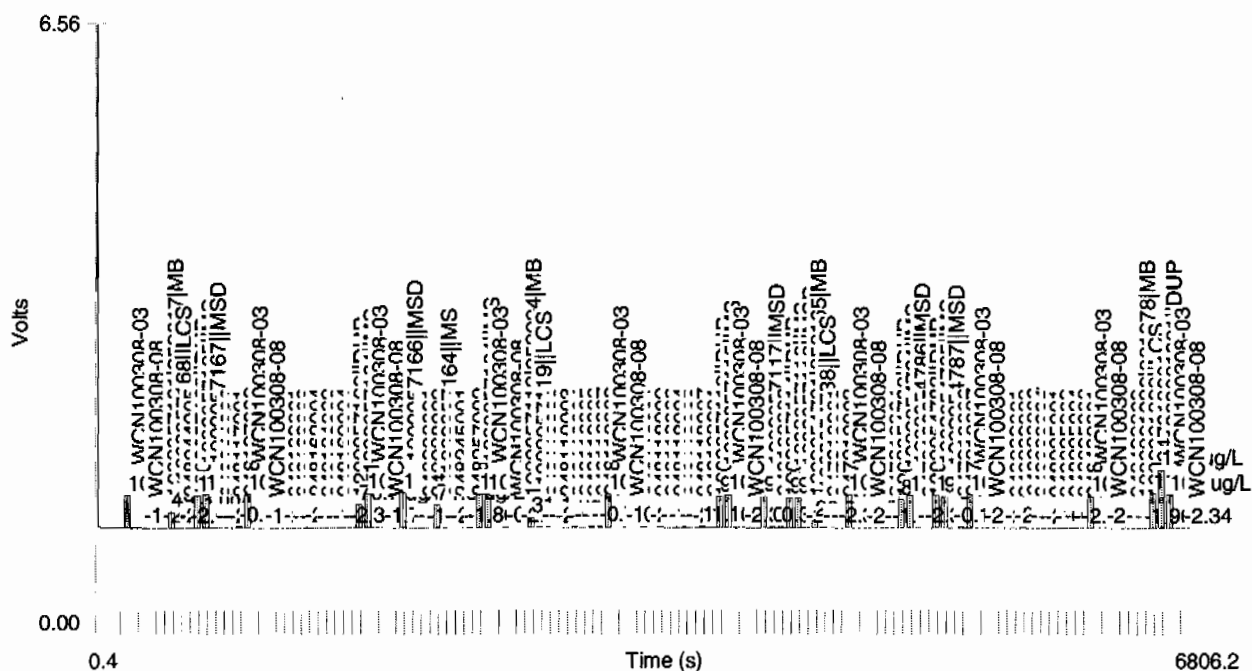
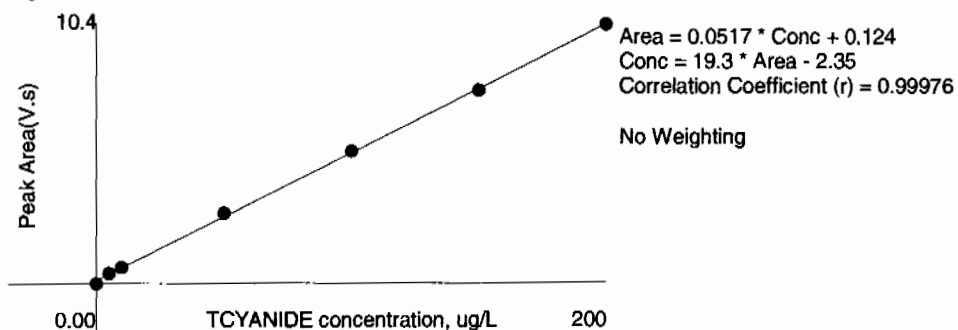


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	10.4	0.692	0.2	3/8/2010	10:26:48
2	150	1	7.82	0.567	0.7	3/8/2010	10:27:40
3	100	1	5.36	0.353	-1.3	3/8/2010	10:28:32
4	50.0	1	2.85	0.199	-5.1	3/8/2010	10:29:25
5	10.0	1	0.644	0.0420	-0.6	3/8/2010	10:30:18
6	5.00	1	0.400	0.0240	-4.6	3/8/2010	10:31:12
7	0.00	1	-0.0189	-0.00306		3/8/2010	10:32:06

Figure 1: TCYANIDE



General Chemistry Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2138-1**

Method/Analysis Information

Product: pH
Analytical Batch: 959970 **Method:** SW9045C pH

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9045C/9045D:

Sample ID	Client ID
248247001	RE36-10-8464
248247002	RE36-10-8475
248247003	RE36-10-8471
248247004	RE36-10-8485
248247005	RE36-10-8477
248247006	RE36-10-8479
248247007	RE36-10-8484
248247008	RE36-10-8481
1202059013	248198001(RE36-10-7405) Sample Duplicate (DUP)
1202059014	248247001(RE36-10-8464) Sample Duplicate (DUP)
1202059015	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-008 REV# 17.

Preparation/Analytical Method Verification

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

Calibration Information

The Electrode analysis was performed on a PerpHecT LogR pH/ISE.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Quality Control (QC) Information

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

The following samples were selected for QC analysis: 248198001 (RE36-10-7405) and 248247001 (RE36-10-8464).

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: 1202059013 (RE36-10-7405), 1202059014 (RE36-10-8464), 248247001 (RE36-10-8464), 248247002 (RE36-10-8475), 248247003 (RE36-10-8471), 248247004 (RE36-10-8485), 248247005 (RE36-10-8477), 248247006 (RE36-10-8479), 248247007 (RE36-10-8484) and 248247008 (RE36-10-8481).

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: 959214 **Method:** SW9012A Cyanide and Total

Prep Batch : 959213 **Method:** SSW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
248247001	RE36-10-8464
248247002	RE36-10-8475
248247003	RE36-10-8471
248247004	RE36-10-8485
248247005	RE36-10-8477
248247006	RE36-10-8479
248247007	RE36-10-8484
248247008	RE36-10-8481
1202057153	Method Blank (MB)
1202057154	248241003(RE36-10-7454) Sample Duplicate (DUP)
1202057155	248241004(RE36-10-7460) Sample Duplicate (DUP)
1202057156	248241003(RE36-10-7454) Matrix Spike (MS)
1202057157	248241004(RE36-10-7460) Matrix Spike (MS)
1202057158	248241003(RE36-10-7454) Matrix Spike Duplicate (MSD)
1202057159	248241004(RE36-10-7460) Matrix Spike Duplicate (MSD)
1202057160	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: 248241003 (RE36-10-7454) and 248241004 (RE36-10-7460).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recoveries for this sample set were within the required acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this sample set were within the required acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPDs between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The values for the sample and duplicate are less than the Practical Quantitation Limit (PQL); therefore, the RPD is not applicable. 1202057155 (RE36-10-7460).

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: 1202057160 (LCS).

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information

Data Exception (DER) Documentation

A DER was not required for this SDG.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

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

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

Method/Analysis Information

Product: Ion Chromatography
Analytical Batch: 967003 **Method:** EPA 300.0 Nitrate in Soil
Prep Batch : 967001 **Method:** EPA 300.0 PREP

Sample Analysis

The following samples were analyzed using the analytical protocol as established in EPA 300.0:

Sample ID	Client ID
248247001	RE36-10-8464
248247002	RE36-10-8475
248247003	RE36-10-8471
248247004	RE36-10-8485
248247005	RE36-10-8477
248247006	RE36-10-8479
248247007	RE36-10-8484
248247008	RE36-10-8481
1202075368	Method Blank (MB)
1202075369	248247001(RE36-10-8464) Sample Duplicate (DUP)
1202075370	248247001(RE36-10-8464) Matrix Spike (MS)
1202075371	248247001(RE36-10-8464) Matrix Spike Duplicate (MSD)
1202075372	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 sample was selected for QC analysis: 248247001 (RE36-10-8464).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recovery for this sample set was within the required acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recovery for this sample set was within the required acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-analysis

The 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

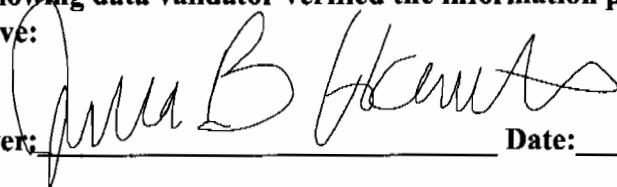
Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

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:



Date:

03/26/10

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: 10-2138-1 GEL Work Order: 248247

The Qualifiers in this report are defined as follows:

- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by



GEL LABORATORIES LLC

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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 25, 2010

Client SDG: 10-2138-1

Client Sample ID: RE36-10-8475
Sample ID: 248247002
Matrix: R
Collect Date: 24-FEB-10 12:00
Receive Date: 27-FEB-10
Collector: Client
Moisture: 8.84%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.5C	H	6.01	0.010	0.100	SU	1	TXT1	03/02/10	1620	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.1	269	ug/kg	1	AXC2	03/10/10	1508	959214	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.24	0.329	1.10	mg/kg	1	GXM	03/23/10	0556	967003	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/22/10	1450	967001
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/10/10	1108	959213

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 25, 2010

Client SDG: 10-2138-1

Client Sample ID: RE36-10-8471
Sample ID: 248247003
Matrix: R
Collect Date: 24-FEB-10 12:00
Receive Date: 27-FEB-10
Collector: Client
Moisture: 11.5%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.4C	H	7.78	0.010	0.100	SU	1	TXT1	03/02/10	1622	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	65.1	239	ug/kg	1	AXC2	03/10/10	1509	959214	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.27	0.339	1.13	mg/kg	1	GXM	03/23/10	0626	967003	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/22/10	1450	967001
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/10/10	1108	959213

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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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 25, 2010

Client SDG: 10-2138-1

Client Sample ID: RE36-10-8485
Sample ID: 248247004
Matrix: R
Collect Date: 24-FEB-10 12:00
Receive Date: 27-FEB-10
Collector: Client
Moisture: 23.5%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.4C	H	7.38	0.010	0.100	SU	1	TXT1	03/02/10	1624	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	75.3	277	ug/kg	1	AXC2	03/10/10	1510	959214	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.47	0.392	1.31	mg/kg	1	GXM	03/23/10	0656	967003	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/22/10	1450	967001
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/10/10	1108	959213

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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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 25, 2010

Client SDG: 10-2138-1

Client Sample ID: RE36-10-8477
Sample ID: 248247005
Matrix: R
Collect Date: 24-FEB-10 12:00
Receive Date: 27-FEB-10
Collector: Client
Moisture: 12.8%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.2C	H	7.60	0.010	0.100	SU	1	TXT1	03/02/10	1626	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	75.0	276	ug/kg	1	AXC2	03/10/10	1514	959214	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.344	1.15	mg/kg	1	GXM	03/23/10	0726	967003	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/22/10	1450	967001
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/10/10	1108	959213

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 25, 2010

Client SDG: 10-2138-1

Client Sample ID: RE36-10-8479
Sample ID: 248247006
Matrix: R
Collect Date: 24-FEB-10 12:00
Receive Date: 27-FEB-10
Collector: Client
Moisture: 10.2%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.8C	H	7.65	0.010	0.100	SU	1	TXT1	03/02/10	1630	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	72.8	268	ug/kg	1	AXC2	03/10/10	1515	959214	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.48	0.334	1.11	mg/kg	1	GXM	03/23/10	0947	967003	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/22/10	1450	967001
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/10/10	1108	959213

The following Analytical Methods were performed

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

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Certificate of Analysis

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

Report Date: March 25, 2010

Client SDG: 10-2138-1

Client Sample ID: RE36-10-8484
Sample ID: 248247007
Matrix: R
Collect Date: 24-FEB-10 12:00
Receive Date: 27-FEB-10
Collector: Client
Moisture: 16.2%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.8C	H	7.35	0.010	0.100	SU	1	TXT1	03/02/10	1632	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.8	271	ug/kg	1	AXC2	03/10/10	1516	959214	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.38	0.358	1.19	mg/kg	1	GXM	03/23/10	1017	967003	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/22/10	1450	967001
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/10/10	1108	959213

The following Analytical Methods were performed

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

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Certificate of Analysis

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

Report Date: March 25, 2010

Client SDG: 10-2138-1

Client Sample ID: RE36-10-8464
Sample ID: 248247001
Matrix: R
Collect Date: 24-FEB-10 12:00
Receive Date: 27-FEB-10
Collector: Client
Moisture: 9.54%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.9C	H	8.00	0.010	0.100	SU	1	TXT1	03/02/10	1614	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	75.2	276	ug/kg	1	AXC2	03/10/10	1507	959214	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.27	0.332	1.11	mg/kg	1	GXM	03/23/10	0357	967003	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/22/10	1450	967001
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/10/10	1107	959213

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 25, 2010

Client SDG: 10-2138-1

Client Sample ID: RE36-10-8481
Sample ID: 248247008
Matrix: R
Collect Date: 24-FEB-10 12:00
Receive Date: 27-FEB-10
Collector: Client
Moisture: 11.2%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.6C	H	7.90	0.010	0.100	SU	1	TXT1	03/02/10	1635	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.7	271	ug/kg	1	AXC2	03/10/10	1517	959214	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.338	1.13	mg/kg	1	GXM	03/23/10	1047	967003	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/22/10	1450	967001
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/10/10	1108	959213

The following Analytical Methods were performed

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

Quality Control Summary

GEL LABORATORIES LLC

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QC Summary

Report Date: March 25, 2010

Page 1 of 2

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

Contact: Ms. Joylene Valdez

Workorder: 248247

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Electrode Analysis											
Batch	959970										
QC1202059013	248198001	DUP									
pH		H	7.45	H	7.50	SU	0.669	(0%-10%)	TXT1	03/02/10	15:47
QC1202059014	248247001	DUP									
pH		H	8.00	H	7.96	SU	0.501	(0%-10%)		03/02/10	16:18
QC1202059015	LCS										
pH	7.00				6.98	SU	99.7	(95%-105%)		03/02/10	15:42
Flow Injection Analysis											
Batch	959214										
QC1202057154	248241003	DUP									
Cyanide, Total		U	ND	U	ND	ug/kg	N/A		AXC2	03/10/10	14:52
QC1202057155	248241004	DUP									
Cyanide, Total		J	112	J	159	ug/kg	34.9 ^	(+/-271)		03/10/10	14:55
QC1202057160	LCS										
Cyanide, Total	67900				59800	ug/kg	88	(32%-157%)		03/10/10	14:50
QC1202057153	MB										
Cyanide, Total				U	250	ug/kg				03/10/10	14:49
QC1202057156	248241003	MS									
Cyanide, Total	4860	U	ND		4530	ug/kg	93.2	(26%-158%)		03/10/10	14:53
QC1202057157	248241004	MS									
Cyanide, Total	5520	J	112		5050	ug/kg	89.5	(26%-158%)		03/10/10	14:56
QC1202057158	248241003	MSD									
Cyanide, Total	5340	U	ND		5180	ug/kg	13.4	97.1 (0%-30%)		03/10/10	14:54
QC1202057159	248241004	MSD									
Cyanide, Total	5210	J	112		4900	ug/kg	3.02	92 (0%-30%)		03/10/10	14:57
Ion Chromatography											
Batch	967003										
QC1202075369	248247001	DUP									
Nitrate-N			1.27		1.27	mg/kg	0.00 ^	(+/-1.11)	GXM3	03/23/10	04:27
QC1202075372	LCS										
Nitrate-N	50.0				45.9	mg/kg	91.8	(90%-110%)		03/23/10	03:27
QC1202075368	MB										
Nitrate-N				U	1.00	mg/kg				03/23/10	02:57
QC1202075370	248247001	MS									
Nitrate-N	55.3		1.27		54.4	mg/kg	96.2	(90%-110%)		03/23/10	04:56
QC1202075371	248247001	MSD									
Nitrate-N	55.3		1.27		54.1	mg/kg	0.617	95.6 (0%-20%)		03/23/10	05:26

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

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QC Summary

Workorder: 248247

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
>	Result is greater than value reported										
A	The TIC is a suspected aldol-condensation product										
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.										
BD	Results are either below the MDC or tracer recovery is low										
C	Analyte has been confirmed by GC/MS analysis										
D	Results are reported from a diluted aliquot of the sample										
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range										
E	Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria										
E	Organics--Concentration of the target analyte exceeds the instrument calibration range										
F	Estimated Value										
H	Analytical holding time was exceeded										
J	Value is estimated										
M	M if above MDC and less than LLD										
M	Matrix Related Failure										
N	Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor										
N/A	RPD or %Recovery limits do not apply.										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
P	Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.										
UI	Gamma Spectroscopy--Uncertain identification										
UJ	Gamma Spectroscopy--Uncertain identification										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	QC Samples were not spiked with this compound										
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
d	5-day BOD--The 2:1 depletion requirement was not met for this sample										
h	Preparation or preservation holding time was exceeded										

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: 25-MAR-2010 16:42

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-2138-1

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	10-MAR-2010 10:58:04	OM_3-10-2010_10-49-24	146	150	97.3	(90%-110%)	Yes
CCV	10-MAR-2010 14:46:09	OM_3-10-2010_14-44-38	101	100	101	(90%-110%)	Yes
CCV	10-MAR-2010 14:58:37	OM_3-10-2010_14-44-38	99.4	100	99.4	(90%-110%)	Yes
CCV	10-MAR-2010 15:11:01	OM_3-10-2010_14-44-38	102	100	102	(90%-110%)	Yes
CCV	10-MAR-2010 15:23:25	OM_3-10-2010_14-44-38	101	100	101	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	10-MAR-2010 10:59:54	OM_3-10-2010_10-49-24	-0.144	10	Yes
CCB	10-MAR-2010 14:47:59	OM_3-10-2010_14-44-38	-1.25	10	Yes
CCB	10-MAR-2010 15:00:26	OM_3-10-2010_14-44-38	-1.36	10	Yes
CCB	10-MAR-2010 15:12:52	OM_3-10-2010_14-44-38	-2.08	10	Yes
CCB	10-MAR-2010 15:25:14	OM_3-10-2010_14-44-38	-1.31	10	Yes

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 25-MAR-2010 16:42

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-2138-1

Ion Chromatography

Method: EPA 300.0

Concentration Units:mg/L

Instrument: Dionex ICS-3000 Ion Chromatograph

Parmname: Nitrate-N

Sample Type	Run Date	Data File	Result	Nominal	Recovery	Limits	Within Limits
ICV	21-MAR-2010 12:34:00	100321	4.7865	5	95.7	(90%-110%)	Yes
CCV	23-MAR-2010 01:57:00	100321	7.5926	7.5	101	(90%-110%)	Yes
CCV	23-MAR-2010 08:18:00	100321	4.5867	5	91.7	(90%-110%)	Yes
CCV	23-MAR-2010 11:17:00	100321	7.5857	7.5	101	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	21-MAR-2010 13:04:00	100321	0	0.1	Yes
CCB	23-MAR-2010 02:27:00	100321	0	0.1	Yes
CCB	23-MAR-2010 08:47:00	100321	0	0.1	Yes
CCB	23-MAR-2010 11:46:00	100321	0	0.1	Yes

Cyanide, Total

Prep Logbook

Cyanide Sample Distillation

Batch ID: 959213.0	Verified by:	Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
Analyst: Alan Stanley		LCS	1202057160	Total Cyanide Solid LCS	URF1200957-01	.25	g
Method: SW846 9010B Prep		MS	1202057156	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
Lab SOP: GL-GC-E-067 REV# 13		MS	1202057157	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
Instrument: Sartorius Balance B-001		MSD	1202057158	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
		MSD	1202057159	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
1202057153 MB	10-MAR-2010 11:07:00	Soil	0.5	25	50	>12
1202057160 LCS	10-MAR-2010 11:07:00	Soil	0.25	25	100	>12
248241003	10-MAR-2010 11:07:00	Soil	0.54	25	46.2963	>12
1202057154 DUP (248241003)	10-MAR-2010 11:07:00	Soil	0.53	25	47.16981	>12
1202057156 MS (248241003)	10-MAR-2010 11:07:00	Soil	0.56	25	44.64286	>12
1202057158 MSD (248241003)	10-MAR-2010 11:07:00	Soil	0.51	25	49.01961	>12
248241004	10-MAR-2010 11:07:00	Soil	0.5	25	50	>12
1202057155 DUP (248241004)	10-MAR-2010 11:07:00	Soil	0.51	25	49.01961	>12
1202057157 MS (248241004)	10-MAR-2010 11:07:00	Soil	0.5	25	50	>12
1202057159 MSD (248241004)	10-MAR-2010 11:07:00	Soil	0.53	25	47.16981	>12
248241005	10-MAR-2010 11:07:00	Soil	0.51	25	49.01961	>12
248241006	10-MAR-2010 11:07:00	Soil	0.51	25	49.01961	>12
248241007	10-MAR-2010 11:07:00	Soil	0.55	25	45.45455	>12
248241008	10-MAR-2010 11:07:00	Soil	0.53	25	47.16981	>12
248241009	10-MAR-2010 11:07:00	Soil	0.53	25	47.16981	>12
248241010	10-MAR-2010 11:07:00	Soil	0.5	25	50	>12
248247001	10-MAR-2010 11:07:00	Soil	0.5	25	50	>12
248247002	10-MAR-2010 11:08:00	Soil	0.51	25	49.01961	>12
248247003	10-MAR-2010 11:08:00	Soil	0.59	25	42.37288	>12
248247004	10-MAR-2010 11:08:00	Soil	0.59	25	42.37288	>12
248247005	10-MAR-2010 11:08:00	Soil	0.52	25	48.07692	>12

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Batch ID: 959213.0
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	1202057160	Total Cyanide Solid LCS	URF1200957-01	.25	g
MS	1202057156	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MS	1202057157	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MSD	1202057158	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MSD	1202057159	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
248247006	10-MAR-2010 11:08:00	Soil	0.52	25	48.07692	>12
248247007	10-MAR-2010 11:08:00	Soil	0.55	25	45.45455	>12
248247008	10-MAR-2010 11:08:00	Soil	0.52	25	48.07692	>12
248250001	10-MAR-2010 11:08:00	Soil	0.55	25	45.45455	>12
248250002	10-MAR-2010 11:08:00	Soil	0.54	25	46.2963	>12
248250003	10-MAR-2010 11:08:00	Soil	0.56	25	44.64286	>12
248250004	10-MAR-2010 11:08:00	Soil	0.51	25	49.01961	>12

Reagent/Solvent Lot ID	Description	Amount	Comments:
1260189-C	50% H2SO4 CN Prep	2.5 mL	
1270661-C	Bismuth Nitrate Solution	1.25 mL	
1270663-C	0.8N H3NO3S	1.25 mL	
1270669-C	51% MgCl2 Soln	1 mL	
1273851-C	0.25N Sodium Hydroxide Solution	25 mL	
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	3/10/2010 10:50:55	OM_3-10-2010_10-49-24
150 ppb		1	axc2	3/10/2010 10:51:47	OM_3-10-2010_10-49-24
100 ppb		1	axc2	3/10/2010 10:52:40	OM_3-10-2010_10-49-24
50 ppb		1	axc2	3/10/2010 10:53:32	OM_3-10-2010_10-49-24
10 ppb		1	axc2	3/10/2010 10:54:26	OM_3-10-2010_10-49-24
CRDL 5.0 ppb		1	axc2	3/10/2010 10:55:20	OM_3-10-2010_10-49-24
ICAL-00		1	axc2	3/10/2010 10:56:14	OM_3-10-2010_10-49-24
ICV		1	axc2	3/10/2010 10:58:04	OM_3-10-2010_10-49-24
ICB		1	axc2	3/10/2010 10:59:54	OM_3-10-2010_10-49-24
CRDL		1	axc2	3/10/2010 11:01:43	OM_3-10-2010_10-49-24
1202066540	963300	1	axc2	3/10/2010 11:03:32	OM_3-10-2010_10-49-24
1202066541	963300	1	axc2	3/10/2010 11:04:26	OM_3-10-2010_10-49-24
248455001	963300	1	axc2	3/10/2010 11:05:19	OM_3-10-2010_10-49-24
248455002	963300	1	axc2	3/10/2010 11:06:12	OM_3-10-2010_10-49-24
248455003	963300	1	axc2	3/10/2010 11:07:05	OM_3-10-2010_10-49-24
248523001	963300	1	axc2	3/10/2010 11:07:58	OM_3-10-2010_10-49-24
248792001	963300	1	axc2	3/10/2010 11:08:51	OM_3-10-2010_10-49-24
1202066542	963300	1	axc2	3/10/2010 11:09:43	OM_3-10-2010_10-49-24
1202066543	963300	1	axc2	3/10/2010 11:10:36	OM_3-10-2010_10-49-24
1202066544	963300	1	axc2	3/10/2010 11:11:28	OM_3-10-2010_10-49-24
CCV		1	axc2	3/10/2010 11:12:20	OM_3-10-2010_10-49-24
CCB		1	axc2	3/10/2010 11:14:10	OM_3-10-2010_10-49-24
1202057145	959212	1	axc2	3/10/2010 11:15:58	OM_3-10-2010_10-49-24
1202057152	959212	25	axc2	3/10/2010 11:16:50	OM_3-10-2010_10-49-24
248159003	959212	1	axc2	3/10/2010 11:17:42	OM_3-10-2010_10-49-24
1202057146	959212	1	axc2	3/10/2010 11:18:34	OM_3-10-2010_10-49-24
1202057148	959212	1	axc2	3/10/2010 11:19:25	OM_3-10-2010_10-49-24
1202057150	959212	1	axc2	3/10/2010 11:20:19	OM_3-10-2010_10-49-24
248159004	959212	1	axc2	3/10/2010 11:21:13	OM_3-10-2010_10-49-24
1202057147	959212	1	axc2	3/10/2010 11:22:06	OM_3-10-2010_10-49-24
1202057149	959212	1	axc2	3/10/2010 11:23:00	OM_3-10-2010_10-49-24
1202057151	959212	1	axc2	3/10/2010 11:23:53	OM_3-10-2010_10-49-24
CCV		1	axc2	3/10/2010 11:24:45	OM_3-10-2010_10-49-24
CCB		1	axc2	3/10/2010 11:26:35	OM_3-10-2010_10-49-24
248159005	959212	1	axc2	3/10/2010 11:28:24	OM_3-10-2010_10-49-24
248159006	959212	1	axc2	3/10/2010 11:29:17	OM_3-10-2010_10-49-24
248163001	959212	1	axc2	3/10/2010 11:30:10	OM_3-10-2010_10-49-24
248163002	959212	1	axc2	3/10/2010 11:31:02	OM_3-10-2010_10-49-24
248163003	959212	1	axc2	3/10/2010 11:31:55	OM_3-10-2010_10-49-24
248163004	959212	1	axc2	3/10/2010 11:32:48	OM_3-10-2010_10-49-24
248163005	959212	1	axc2	3/10/2010 11:33:40	OM_3-10-2010_10-49-24
248163006	959212	1	axc2	3/10/2010 11:34:32	OM_3-10-2010_10-49-24
248163007	959212	1	axc2	3/10/2010 11:35:24	OM_3-10-2010_10-49-24
248163008	959212	1	axc2	3/10/2010 11:36:15	OM_3-10-2010_10-49-24
CCV		1	axc2	3/10/2010 11:37:08	OM_3-10-2010_10-49-24
CCB		1	axc2	3/10/2010 11:38:58	OM_3-10-2010_10-49-24
248163009	959212	1	axc2	3/10/2010 11:40:49	OM_3-10-2010_10-49-24
248163010	959212	1	axc2	3/10/2010 11:41:42	OM_3-10-2010_10-49-24
248163011	959212	1	axc2	3/10/2010 11:42:36	OM_3-10-2010_10-49-24
248163012	959212	1	axc2	3/10/2010 11:43:29	OM_3-10-2010_10-49-24
248163013	959212	1	axc2	3/10/2010 11:44:22	OM_3-10-2010_10-49-24
248163014	959212	1	axc2	3/10/2010 11:45:16	OM_3-10-2010_10-49-24
248241001	959212	1	axc2	3/10/2010 11:46:08	OM_3-10-2010_10-49-24
248241002	959212	1	axc2	3/10/2010 11:47:02	OM_3-10-2010_10-49-24
1202061941	961284	1	axc2	3/10/2010 11:47:54	OM_3-10-2010_10-49-24
1202061948	961284	25	axc2	3/10/2010 11:48:47	OM_3-10-2010_10-49-24
CCV		1	axc2	3/10/2010 11:49:39	OM_3-10-2010_10-49-24
CCB		1	axc2	3/10/2010 11:51:29	OM_3-10-2010_10-49-24

247914001	961284	1	axc2	3/10/2010	11:53:18	OM_3-10-2010_10-49-24
247923001	961284	1	axc2	3/10/2010	11:54:10	OM_3-10-2010_10-49-24
247927001	961284	1	axc2	3/10/2010	11:55:02	OM_3-10-2010_10-49-24
247930001	961284	1	axc2	3/10/2010	11:55:55	OM_3-10-2010_10-49-24
247933001	961284	1	axc2	3/10/2010	11:56:46	OM_3-10-2010_10-49-24
247939001	961284	1	axc2	3/10/2010	11:57:41	OM_3-10-2010_10-49-24
247941001	961284	1	axc2	3/10/2010	11:58:34	OM_3-10-2010_10-49-24
247943001	961284	1	axc2	3/10/2010	11:59:28	OM_3-10-2010_10-49-24
247945001	961284	1	axc2	3/10/2010	12:00:22	OM_3-10-2010_10-49-24
248515001	961284	1	axc2	3/10/2010	12:01:15	OM_3-10-2010_10-49-24
CCV		1	axc2	3/10/2010	12:02:08	OM_3-10-2010_10-49-24
CCB		1	axc2	3/10/2010	12:03:58	OM_3-10-2010_10-49-24
1202061942	961284	1	axc2	3/10/2010	12:05:48	OM_3-10-2010_10-49-24
1202061944	961284	1	axc2	3/10/2010	12:06:40	OM_3-10-2010_10-49-24
1202061946	961284	1	axc2	3/10/2010	12:07:33	OM_3-10-2010_10-49-24
248515002	961284	1	axc2	3/10/2010	12:08:26	OM_3-10-2010_10-49-24
1202061943	961284	1	axc2	3/10/2010	12:09:19	OM_3-10-2010_10-49-24
1202061945	961284	1	axc2	3/10/2010	12:10:11	OM_3-10-2010_10-49-24
1202061947	961284	1	axc2	3/10/2010	12:11:04	OM_3-10-2010_10-49-24
248515003	961284	1	axc2	3/10/2010	12:11:56	OM_3-10-2010_10-49-24
248526001	961284	1	axc2	3/10/2010	12:12:49	OM_3-10-2010_10-49-24
248560001	961284	1	axc2	3/10/2010	12:13:41	OM_3-10-2010_10-49-24
CCV		1	axc2	3/10/2010	12:14:33	OM_3-10-2010_10-49-24
CCB		1	axc2	3/10/2010	12:16:23	OM_3-10-2010_10-49-24
248560002	961284	1	axc2	3/10/2010	12:18:13	OM_3-10-2010_10-49-24
248560003	961284	1	axc2	3/10/2010	12:19:08	OM_3-10-2010_10-49-24
248560004	961284	1	axc2	3/10/2010	12:20:02	OM_3-10-2010_10-49-24
248560005	961284	1	axc2	3/10/2010	12:20:55	OM_3-10-2010_10-49-24
248560006	961284	1	axc2	3/10/2010	12:21:49	OM_3-10-2010_10-49-24
248560007	961284	1	axc2	3/10/2010	12:22:42	OM_3-10-2010_10-49-24
1202061965	961291	1	axc2	3/10/2010	12:23:36	OM_3-10-2010_10-49-24
1202061967	961291	1	axc2	3/10/2010	12:24:29	OM_3-10-2010_10-49-24
247914001	961291	1	axc2	3/10/2010	12:25:23	OM_3-10-2010_10-49-24
247923001	961291	1	axc2	3/10/2010	12:26:15	OM_3-10-2010_10-49-24
CCV		1	axc2	3/10/2010	12:27:07	OM_3-10-2010_10-49-24
CCB		1	axc2	3/10/2010	12:28:57	OM_3-10-2010_10-49-24
247927001	961291	1	axc2	3/10/2010	12:30:46	OM_3-10-2010_10-49-24
247930001	961291	1	axc2	3/10/2010	12:31:39	OM_3-10-2010_10-49-24
247933001	961291	1	axc2	3/10/2010	12:32:31	OM_3-10-2010_10-49-24
247939001	961291	1	axc2	3/10/2010	12:33:24	OM_3-10-2010_10-49-24
1202061966	961291	1	axc2	3/10/2010	12:34:16	OM_3-10-2010_10-49-24
247941001	961291	1	axc2	3/10/2010	12:35:10	OM_3-10-2010_10-49-24
247943001	961291	1	axc2	3/10/2010	12:36:04	OM_3-10-2010_10-49-24
247945001	961291	1	axc2	3/10/2010	12:36:58	OM_3-10-2010_10-49-24
247927001*	961291	10	axc2	3/10/2010	12:39:51	OM_3-10-2010_10-49-24
	961291	1	axc2	3/10/2010	12:40:44	OM_3-10-2010_10-49-24
CCV		1	axc2	3/10/2010	12:41:37	OM_3-10-2010_10-49-24
CCB		1	axc2	3/10/2010	12:43:27	OM_3-10-2010_10-49-24
247927001	961291	2	axc2	3/10/2010	12:45:16	OM_3-10-2010_10-49-24
CCV		1	axc2	3/10/2010	12:46:09	OM_3-10-2010_10-49-24
CCB		1	axc2	3/10/2010	12:47:59	OM_3-10-2010_10-49-24

Author: axc2

Date : 3/10/2010

Original Run Filename: OM_3-10-2010_10-49-24.OMN created 3/10/2010 10:49:24
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_3-10-2010_10-49-24.OMN last modified 3/10/2010 12:49:04
 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)				
WCN100310-01	1	S1	200	11.1	3/10/2010@10:50:55			200 ppb
WCN100310-02	1	S2	150	8.08	3/10/2010@10:51:47			150 ppb
WCN100310-03	1	S3	100	5.35	3/10/2010@10:52:40			100 ppb
WCN100310-04	1	S4	50.0	2.95	3/10/2010@10:53:32			50 ppb
WCN100310-05	1	S5	10.0	0.687	3/10/2010@10:54:26			10 ppb
WCN100310-06	1	S6	5.00	0.407	3/10/2010@10:55:20			CRDL 5.0 ppb
WCN100310-08	1	S7	0.00	0.0471	3/10/2010@10:56:14			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99958 > 0.99500					
Message			Pass					
Action			Continue					
WCN100310-07	1	S8	146	8.03	3/10/2010@10:58:04			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					
WCN100310-08	1	S7	-0.144	0.0944	3/10/2010@10:59:54			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-0.144 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-0.144 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100310-06	1	S6	6.05	0.429	3/10/2010@11:01:43			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			6.05 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			6.05 > 2.50					
Message			Pass					
Action			None					
1202066540|963300|MB	1	1	-0.804	0.0587	3/10/2010@11:03:32			
1202066541||LCS	1	2	48.9	2.75	3/10/2010@11:04:26			
248455001	1	3	-0.811	0.0583	3/10/2010@11:05:19			
248455002	1	4	-0.508	0.0747	3/10/2010@11:06:12			
248455003	1	5	0.519	0.130	3/10/2010@11:07:05			
248523001	1	6	-1.98	-0.00475	3/10/2010@11:07:58			
248792001	1	7	-1.30	0.0317	3/10/2010@11:08:51			
1202066542||DUP	1	8	-1.63	0.0140	3/10/2010@11:09:43			
1202066543||MS	1	9	102	5.61	3/10/2010@11:10:36			
1202066544||MSD	1	10	103	5.67	3/10/2010@11:11:28			
WCN100310-03	1	S3	101	5.56	3/10/2010@11:12:20			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			0.8 < 10.0					

Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			0.8 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100310-08	1	S7	-1.88	3.30e-4	3/10/2010@11:14:10			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.88 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.88 > -5.00					
Message			CCB Passed					
Action			Continue					
1202057145|959212|MB	1	11	-1.54	0.0188	3/10/2010@11:15:58			
1202057152|LCS	1	12	24.9	1.45	3/10/2010@11:16:50			25.00
248159003	1	13	-0.859	0.0557	3/10/2010@11:17:42			
1202057146|DUP	1	14	-0.0820	0.0977	3/10/2010@11:18:34			
1202057148|MS	1	15	93.7	5.17	3/10/2010@11:19:25			
1202057150|MSD	1	16	88.3	4.88	3/10/2010@11:20:19			
248159004	1	17	1.45	0.181	3/10/2010@11:21:13			
1202057147|DUP	1	18	1.28	0.171	3/10/2010@11:22:06			
1202057149|MS	1	19	77.1	4.28	3/10/2010@11:23:00			
1202057151|MSD	1	20	85.3	4.72	3/10/2010@11:23:53			
WCN100310-03	1	S3	101	5.56	3/10/2010@11:24:45			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			0.9 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			0.9 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100310-08	1	S7	-1.09	0.0433	3/10/2010@11:26:35			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.09 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.09 > -5.00					
Message			CCB Passed					
Action			Continue					
248159005	1	21	0.0956	0.107	3/10/2010@11:28:24			
248159006	1	22	-0.492	0.0755	3/10/2010@11:29:17			
248163001	1	23	-1.05	0.0453	3/10/2010@11:30:10			
248163002	1	24	-1.26	0.0340	3/10/2010@11:31:02			
248163003	1	25	-0.725	0.0630	3/10/2010@11:31:55			
248163004	1	26	-1.30	0.0320	3/10/2010@11:32:48			
248163005	1	27	-0.971	0.0496	3/10/2010@11:33:40			
248163006	1	28	-0.534	0.0733	3/10/2010@11:34:32			
248163007	1	29	-0.822	0.0577	3/10/2010@11:35:24			
248163008	1	30	-1.89	-3.60e-4	3/10/2010@11:36:15			
WCN100310-03	1	S3	99.6	5.49	3/10/2010@11:37:08			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-0.4 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-0.4 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100310-08	1	S7	-0.973	0.0495	3/10/2010@11:38:58			CCB
Known Conc:			0.00					

DQM Test: > + Concentration Limit									
Result:		-0.973 < 5.00							
Message		CCB Passed							
Action		Continue							
DQM Test: < - Concentration Limit									
Result:		-0.973 > -5.00							
Message		CCB Passed							
Action		Continue							
248163009	1	31	-1.13	0.0408	3/10/2010@11:40:49				
248163010	1	32	-1.06	0.0447	3/10/2010@11:41:42				
248163011	1	33	-0.202	0.0912	3/10/2010@11:42:36				
248163012	1	34	-0.820	0.0578	3/10/2010@11:43:29				
248163013	1	35	-0.101	0.0967	3/10/2010@11:44:22				
248163014	1	36	-1.03	0.0465	3/10/2010@11:45:16				
248241001	1	37	6.98	0.480	3/10/2010@11:46:08				
248241002	1	38	4.24	0.332	3/10/2010@11:47:02				
1202061941|961284|MB	1	39	-1.88	1.84e-4	3/10/2010@11:47:54				
1202061948|LCS	1	40	30.0	1.73	3/10/2010@11:48:47		25.00		
WCN100310-03	1	S3	101	5.59	3/10/2010@11:49:39				CCV
Known Conc:		100							
DQM Test: > + Percent Relative Difference									
Result:		1.4 < 10.0							
Message		CCV Passed							
Action		Continue							
DQM Test: < - Percent Relative Difference									
Result:		1.4 < 10.0							
Message		CCV Passed							
Action		Continue							
WCN100310-08	1	S7	-2.16	-0.0149	3/10/2010@11:51:29				CCB
Known Conc:		0.00							
DQM Test: > + Concentration Limit									
Result:		-2.16 < 5.00							
Message		CCB Passed							
Action		Continue							
DQM Test: < - Concentration Limit									
Result:		-2.16 > -5.00							
Message		CCB Passed							
Action		Continue							
247914001	1	41	-0.276	0.0873	3/10/2010@11:53:18				
247923001	1	42	25.1	1.46	3/10/2010@11:54:10				
247927001	1	43	140	7.65	3/10/2010@11:55:02				
247930001	1	44	81.5	4.51	3/10/2010@11:55:55				
247933001	1	45	25.7	1.49	3/10/2010@11:56:46				
247939001	1	46	22.4	1.32	3/10/2010@11:57:41				
247941001	1	47	36.9	2.10	3/10/2010@11:58:34				
247943001	1	48	55.1	3.08	3/10/2010@11:59:28				
247945001	1	49	2.04	0.213	3/10/2010@12:00:22				
248515001	1	50	-0.256	0.0883	3/10/2010@12:01:15				
WCN100310-03	1	S3	101	5.55	3/10/2010@12:02:08				CCV
Known Conc:		100							
DQM Test: > + Percent Relative Difference									
Result:		0.7 < 10.0							
Message		CCV Passed							
Action		Continue							
DQM Test: < - Percent Relative Difference									
Result:		0.7 < 10.0							
Message		CCV Passed							
Action		Continue							
WCN100310-08	1	S7	-1.39	0.0269	3/10/2010@12:03:58				CCB
Known Conc:		0.00							
DQM Test: > + Concentration Limit									
Result:		-1.39 < 5.00							
Message		CCB Passed							
Action		Continue							
DQM Test: < - Concentration Limit									
Result:		-1.39 > -5.00							
Message		CCB Passed							
Action		Continue							

1202061942	DUP	1	51	-0.751	0.0615	3/10/2010@12:05:48			
1202061944	MS	1	52	73.9	4.10	3/10/2010@12:06:40			
1202061946	MSD	1	53	86.2	4.76	3/10/2010@12:07:33			
248515002		1	54	10.0	0.646	3/10/2010@12:08:26			
1202061943	DUP	1	55	3.99	0.318	3/10/2010@12:09:19			
1202061945	MS	1	56	55.5	3.11	3/10/2010@12:10:11			
1202061947	MSD	1	57	70.4	3.91	3/10/2010@12:11:04			
248515003		1	58	1.39	0.177	3/10/2010@12:11:56			
248526001		1	59	0.704	0.140	3/10/2010@12:12:49			
248560001		1	60	-0.799	0.0590	3/10/2010@12:13:41			
WCN100310-03		1	S3	100	5.53	3/10/2010@12:14:33			CCV
Known Conc:				100					
DQM Test: > + Percent Relative Difference									
Result:				0.2 < 10.0					
Message				CCV Passed					
Action				Continue					
DQM Test: < - Percent Relative Difference									
Result:				0.2 < 10.0					
Message				CCV Passed					
Action				Continue					
WCN100310-08		1	S7	-1.48	0.0223	3/10/2010@12:16:23			CCB
Known Conc:				0.00					
DQM Test: > + Concentration Limit									
Result:				-1.48 < 5.00					
Message				CCB Passed					
Action				Continue					
DQM Test: < - Concentration Limit									
Result:				-1.48 > -5.00					
Message				CCB Passed					
Action				Continue					
248560002		1	61	-1.89	0.00	3/10/2010@12:18:13			
248560003		1	62	-0.0166	0.101	3/10/2010@12:19:08			
248560004		1	63	0.426	0.125	3/10/2010@12:20:02			
248560005		1	64	-0.706	0.0640	3/10/2010@12:20:55			
248560006		1	65	-0.316	0.0851	3/10/2010@12:21:49			
248560007		1	66	-1.15	0.0398	3/10/2010@12:22:42			
1202061965	961291|MB	1	67	-1.97	-0.00435	3/10/2010@12:23:36			
1202061967	LCS	1	68	-0.934	0.0516	3/10/2010@12:24:29			
247914001		1	69	5.31	0.389	3/10/2010@12:25:23			
247923001		1	70	30.3	1.74	3/10/2010@12:26:15			
WCN100310-03		1	S3	102	5.61	3/10/2010@12:27:07			CCV
Known Conc:				100					
DQM Test: > + Percent Relative Difference									
Result:				1.8 < 10.0					
Message				CCV Passed					
Action				Continue					
DQM Test: < - Percent Relative Difference									
Result:				1.8 < 10.0					
Message				CCV Passed					
Action				Continue					
WCN100310-08		1	S7	-1.89	-2.03e-4	3/10/2010@12:28:57			CCB
Known Conc:				0.00					
DQM Test: > + Concentration Limit									
Result:				-1.89 < 5.00					
Message				CCB Passed					
Action				Continue					
DQM Test: < - Concentration Limit									
Result:				-1.89 > -5.00					
Message				CCB Passed					
Action				Continue					
247927001		1	71	225	12.3	3/10/2010@12:30:46			
247930001		1	72	92.5	5.11	3/10/2010@12:31:39			
247933001		1	73	66.3	3.69	3/10/2010@12:32:31			
247939001		1	74	74.5	4.13	3/10/2010@12:33:24			
1202061966	DUP	1	75	60.7	3.39	3/10/2010@12:34:16			
247941001		1	76	42.1	2.38	3/10/2010@12:35:10			
247943001		1	77	80.7	4.47	3/10/2010@12:36:04			
247945001		1	78	0.195	0.113	3/10/2010@12:36:58			

247927001	1	71	381	20.7	3/10/2010@12:39:51	10.00		
Sample106	1	1	-1.79	0.00544	3/10/2010@12:40:44			
WCN100310-03	1	S3	100	5.51	3/10/2010@12:41:37			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			0.0 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			0.0 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100310-08	1	S7	-2.00	-0.00603	3/10/2010@12:43:27			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-2.00 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-2.00 > -5.00					
Message			CCB Passed					
Action			Continue					
247927001	1	71	114	6.29	3/10/2010@12:45:16		2.00	
WCN100310-03	1	S3	101	5.58	3/10/2010@12:46:09			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			1.3 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			1.3 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100310-08	1	S7	-1.89	1.71e-4	3/10/2010@12:47:59			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.89 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.89 > -5.00					
Message			CCB Passed					
Action			Continue					

Analyte Properties Table for OM_3-10-2010_10-49-24.OMN

Property	Channel 1
	TCYANIDE
Concentration Units	ug/L
Calibration Fit Type	First Order
Clear Calibration	True
Force Through Zero	False
Calibration Weighting	None
Auto Dilution Trigger	True
% of High Standard	100
Quik Chem Method	10-204-00-1-A
Chemistry	Direct/Bipolar
Calibration by Height	False
Inject to Peak Start	22
Peak Base Width	39

[illegible]

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	11.1	0.707	-1.3	3/10/2010	10:51:58
2	150	1	8.08	0.519	1.6	3/10/2010	10:52:50
3	100	1	5.35	0.347	3.0	3/10/2010	10:53:42
4	50.0	1	2.95	0.188	-5.0	3/10/2010	10:54:35
5	10.0	1	0.687	0.0433	-6.4	3/10/2010	10:55:28
6	5.00	1	0.407	0.0241	-8.2	3/10/2010	10:56:22
7	0.00	1	0.0471	0.00103		3/10/2010	10:57:16

Peak Area(V.s)

11.1

0.00

TCYANIDE concentration, ug/L

200

Area = 0.0541 * Conc + 0.105
Conc = 18.5 * Area - 1.89
Correlation Coefficient (r) = 0.99958

No Weighting

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
CCV		1	axc2	3/10/2010 14:46:09	OM_3-10-2010_14-44-38
CCB		1	axc2	3/10/2010 14:47:59	OM_3-10-2010_14-44-38
1202057153	959214	1	axc2	3/10/2010 14:49:49	OM_3-10-2010_14-44-38
1202057160	959214	25	axc2	3/10/2010 14:50:42	OM_3-10-2010_14-44-38
248241003	959214	1	axc2	3/10/2010 14:51:36	OM_3-10-2010_14-44-38
1202057154	959214	1	axc2	3/10/2010 14:52:29	OM_3-10-2010_14-44-38
1202057156	959214	1	axc2	3/10/2010 14:53:21	OM_3-10-2010_14-44-38
1202057158	959214	1	axc2	3/10/2010 14:54:14	OM_3-10-2010_14-44-38
248241004	959214	1	axc2	3/10/2010 14:55:07	OM_3-10-2010_14-44-38
1202057155	959214	1	axc2	3/10/2010 14:55:59	OM_3-10-2010_14-44-38
1202057157	959214	1	axc2	3/10/2010 14:56:52	OM_3-10-2010_14-44-38
1202057159	959214	1	axc2	3/10/2010 14:57:44	OM_3-10-2010_14-44-38
CCV		1	axc2	3/10/2010 14:58:37	OM_3-10-2010_14-44-38
CCB		1	axc2	3/10/2010 15:00:26	OM_3-10-2010_14-44-38
248241005	959214	1	axc2	3/10/2010 15:02:15	OM_3-10-2010_14-44-38
248241006	959214	1	axc2	3/10/2010 15:03:07	OM_3-10-2010_14-44-38
248241007	959214	1	axc2	3/10/2010 15:03:58	OM_3-10-2010_14-44-38
248241008	959214	1	axc2	3/10/2010 15:04:50	OM_3-10-2010_14-44-38
248241009	959214	1	axc2	3/10/2010 15:05:41	OM_3-10-2010_14-44-38
248241010	959214	1	axc2	3/10/2010 15:06:35	OM_3-10-2010_14-44-38
248247001	959214	1	axc2	3/10/2010 15:07:29	OM_3-10-2010_14-44-38
248247002	959214	1	axc2	3/10/2010 15:08:23	OM_3-10-2010_14-44-38
248247003	959214	1	axc2	3/10/2010 15:09:16	OM_3-10-2010_14-44-38
248247004	959214	1	axc2	3/10/2010 15:10:09	OM_3-10-2010_14-44-38
CCV		1	axc2	3/10/2010 15:11:01	OM_3-10-2010_14-44-38
CCB		1	axc2	3/10/2010 15:12:52	OM_3-10-2010_14-44-38
248247005	959214	1	axc2	3/10/2010 15:14:40	OM_3-10-2010_14-44-38
248247006	959214	1	axc2	3/10/2010 15:15:34	OM_3-10-2010_14-44-38
248247007	959214	1	axc2	3/10/2010 15:16:26	OM_3-10-2010_14-44-38
248247008	959214	1	axc2	3/10/2010 15:17:19	OM_3-10-2010_14-44-38
248250001	959214	1	axc2	3/10/2010 15:18:11	OM_3-10-2010_14-44-38
248250002	959214	1	axc2	3/10/2010 15:19:04	OM_3-10-2010_14-44-38
248250003	959214	1	axc2	3/10/2010 15:19:56	OM_3-10-2010_14-44-38
248250004	959214	1	axc2	3/10/2010 15:20:48	OM_3-10-2010_14-44-38
1202059694	960266	1	axc2	3/10/2010 15:21:40	OM_3-10-2010_14-44-38
1202059701	960266	25	axc2	3/10/2010 15:22:31	OM_3-10-2010_14-44-38
CCV		1	axc2	3/10/2010 15:23:25	OM_3-10-2010_14-44-38
CCB		1	axc2	3/10/2010 15:25:14	OM_3-10-2010_14-44-38
248256001	960266	1	axc2	3/10/2010 15:27:04	OM_3-10-2010_14-44-38
248256002	960266	1	axc2	3/10/2010 15:27:58	OM_3-10-2010_14-44-38
248256003	960266	1	axc2	3/10/2010 15:28:51	OM_3-10-2010_14-44-38
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248256006	960266	1	axc2	3/10/2010 15:31:31	OM_3-10-2010_14-44-38
248256007	960266	1	axc2	3/10/2010 15:32:25	OM_3-10-2010_14-44-38
248374008	960266	1	axc2	3/10/2010 15:33:18	OM_3-10-2010_14-44-38
1202059695	960266	1	axc2	3/10/2010 15:34:10	OM_3-10-2010_14-44-38
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CCV		1	axc2	3/10/2010 15:35:55	OM_3-10-2010_14-44-38
CCB		1	axc2	3/10/2010 15:37:45	OM_3-10-2010_14-44-38
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1202059700	960266	1	axc2	3/10/2010 15:43:02	OM_3-10-2010_14-44-38
248374010	960266	1	axc2	3/10/2010 15:43:56	OM_3-10-2010_14-44-38
248374011	960266	1	axc2	3/10/2010 15:44:50	OM_3-10-2010_14-44-38
248374012	960266	1	axc2	3/10/2010 15:45:44	OM_3-10-2010_14-44-38

248374013	960266	1	axc2	3/10/2010	15:46:37	OM_3-10-2010_14-44-38
248389002	960266	1	axc2	3/10/2010	15:47:31	OM_3-10-2010_14-44-38
CCV		1	axc2	3/10/2010	15:48:24	OM_3-10-2010_14-44-38
CCB		1	axc2	3/10/2010	15:50:14	OM_3-10-2010_14-44-38
248389003	960266	1	axc2	3/10/2010	15:52:03	OM_3-10-2010_14-44-38
248396001	960266	1	axc2	3/10/2010	15:52:56	OM_3-10-2010_14-44-38
248396002	960266	1	axc2	3/10/2010	15:53:49	OM_3-10-2010_14-44-38
248396003	960266	1	axc2	3/10/2010	15:54:43	OM_3-10-2010_14-44-38
248396004	960266	1	axc2	3/10/2010	15:55:35	OM_3-10-2010_14-44-38
248396005	960266	1	axc2	3/10/2010	15:56:28	OM_3-10-2010_14-44-38
1202059686	960263	1	axc2	3/10/2010	15:57:20	OM_3-10-2010_14-44-38
1202059693	960263	25	axc2	3/10/2010	15:58:12	OM_3-10-2010_14-44-38
248371008	960263	1	axc2	3/10/2010	15:59:05	OM_3-10-2010_14-44-38
1202059687	960263	1	axc2	3/10/2010	15:59:56	OM_3-10-2010_14-44-38
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CCB		1	axc2	3/10/2010	16:02:39	OM_3-10-2010_14-44-38
1202059689	960263	1	axc2	3/10/2010	16:04:30	OM_3-10-2010_14-44-38
1202059691	960263	1	axc2	3/10/2010	16:05:24	OM_3-10-2010_14-44-38
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CCV		1	axc2	3/10/2010	16:13:24	OM_3-10-2010_14-44-38
CCB		1	axc2	3/10/2010	16:15:15	OM_3-10-2010_14-44-38
248371014	960263	1	axc2	3/10/2010	16:17:03	OM_3-10-2010_14-44-38
248371015	960263	1	axc2	3/10/2010	16:17:55	OM_3-10-2010_14-44-38
248371016	960263	1	axc2	3/10/2010	16:18:48	OM_3-10-2010_14-44-38
248371017	960263	1	axc2	3/10/2010	16:19:40	OM_3-10-2010_14-44-38
248371018	960263	1	axc2	3/10/2010	16:20:32	OM_3-10-2010_14-44-38
248371019	960263	1	axc2	3/10/2010	16:21:27	OM_3-10-2010_14-44-38
248371020	960263	1	axc2	3/10/2010	16:22:22	OM_3-10-2010_14-44-38
248374001*	960263	1	axc2	3/10/2010	16:23:16	OM_3-10-2010_14-44-38
248374002	960263	1	axc2	3/10/2010	16:24:10	OM_3-10-2010_14-44-38
248374003	960263	1	axc2	3/10/2010	16:25:04	OM_3-10-2010_14-44-38
CCV		1	axc2	3/10/2010	16:25:56	OM_3-10-2010_14-44-38
CCB		1	axc2	3/10/2010	16:27:46	OM_3-10-2010_14-44-38
248374001	960263	1	axc2	3/10/2010	16:29:36	OM_3-10-2010_14-44-38
248374004	960263	1	axc2	3/10/2010	16:30:31	OM_3-10-2010_14-44-38
248374005	960263	1	axc2	3/10/2010	16:31:23	OM_3-10-2010_14-44-38
248374006	960263	1	axc2	3/10/2010	16:32:18	OM_3-10-2010_14-44-38
248374007	960263	1	axc2	3/10/2010	16:33:10	OM_3-10-2010_14-44-38
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1202059684	960259	25	axc2	3/10/2010	16:34:56	OM_3-10-2010_14-44-38
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CCB		1	axc2	3/10/2010	16:40:17	OM_3-10-2010_14-44-38
248371004	960259	1	axc2	3/10/2010	16:42:05	OM_3-10-2010_14-44-38
248371005	960259	1	axc2	3/10/2010	16:43:00	OM_3-10-2010_14-44-38
248371006	960259	1	axc2	3/10/2010	16:43:54	OM_3-10-2010_14-44-38
248371007	960259	1	axc2	3/10/2010	16:44:49	OM_3-10-2010_14-44-38
248408015	960259	1	axc2	3/10/2010	16:45:43	OM_3-10-2010_14-44-38
1202059678	960259	1	axc2	3/10/2010	16:46:37	OM_3-10-2010_14-44-38
1202059680	960259	1	axc2	3/10/2010	16:47:31	OM_3-10-2010_14-44-38
1202059682	960259	1	axc2	3/10/2010	16:48:25	OM_3-10-2010_14-44-38

248408016	960259	1	axc2	3/10/2010	16:49:18	OM_3-10-2010_14-44-38
1202059679	960259	1	axc2	3/10/2010	16:50:12	OM_3-10-2010_14-44-38
CCV		1	axc2	3/10/2010	16:51:04	OM_3-10-2010_14-44-38
CCB		1	axc2	3/10/2010	16:52:54	OM_3-10-2010_14-44-38
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248418001	960259	1	axc2	3/10/2010	16:58:15	OM_3-10-2010_14-44-38
248418002	960259	1	axc2	3/10/2010	16:59:08	OM_3-10-2010_14-44-38
248418003	960259	1	axc2	3/10/2010	17:00:02	OM_3-10-2010_14-44-38
248418004	960259	1	axc2	3/10/2010	17:00:57	OM_3-10-2010_14-44-38
248418005	960259	1	axc2	3/10/2010	17:01:51	OM_3-10-2010_14-44-38
248418006	960259	1	axc2	3/10/2010	17:02:45	OM_3-10-2010_14-44-38
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CCB		1	axc2	3/10/2010	17:05:28	OM_3-10-2010_14-44-38
248418007	960259	1	axc2	3/10/2010	17:07:18	OM_3-10-2010_14-44-38
248418008	960259	1	axc2	3/10/2010	17:08:12	OM_3-10-2010_14-44-38
248418009	960259	1	axc2	3/10/2010	17:09:07	OM_3-10-2010_14-44-38
1202059669	960257	1	axc2	3/10/2010	17:10:01	OM_3-10-2010_14-44-38
1202059676	960257	25	axc2	3/10/2010	17:10:54	OM_3-10-2010_14-44-38
248383001	960257	1	axc2	3/10/2010	17:11:48	OM_3-10-2010_14-44-38
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1202059672	960257	1	axc2	3/10/2010	17:13:34	OM_3-10-2010_14-44-38
1202059674	960257	1	axc2	3/10/2010	17:14:27	OM_3-10-2010_14-44-38
248383002	960257	1	axc2	3/10/2010	17:15:20	OM_3-10-2010_14-44-38
CCV		1	axc2	3/10/2010	17:16:12	OM_3-10-2010_14-44-38
CCB		1	axc2	3/10/2010	17:18:03	OM_3-10-2010_14-44-38
1202059671	960257	1	axc2	3/10/2010	17:19:52	OM_3-10-2010_14-44-38
1202059673	960257	1	axc2	3/10/2010	17:20:46	OM_3-10-2010_14-44-38
1202059675	960257	1	axc2	3/10/2010	17:21:41	OM_3-10-2010_14-44-38
248383003	960257	1	axc2	3/10/2010	17:22:36	OM_3-10-2010_14-44-38
248383004	960257	1	axc2	3/10/2010	17:23:30	OM_3-10-2010_14-44-38
248383005	960257	1	axc2	3/10/2010	17:24:25	OM_3-10-2010_14-44-38
248383006	960257	1	axc2	3/10/2010	17:25:19	OM_3-10-2010_14-44-38
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CCB		1	axc2	3/10/2010	17:30:44	OM_3-10-2010_14-44-38
248408004	960257	1	axc2	3/10/2010	17:32:33	OM_3-10-2010_14-44-38
248408005	960257	1	axc2	3/10/2010	17:33:26	OM_3-10-2010_14-44-38
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CCB		1	axc2	3/10/2010	17:43:21	OM_3-10-2010_14-44-38
248408014	960257	1	axc2	3/10/2010	17:45:11	OM_3-10-2010_14-44-38
1202061972*	961296	1	axc2	3/10/2010	17:46:05	OM_3-10-2010_14-44-38
1202061982	961296	1	axc2	3/10/2010	17:46:59	OM_3-10-2010_14-44-38
248321002	961296	1	axc2	3/10/2010	17:47:53	OM_3-10-2010_14-44-38
1202061973	961296	1	axc2	3/10/2010	17:48:48	OM_3-10-2010_14-44-38
1202061976	961296	1	axc2	3/10/2010	17:49:42	OM_3-10-2010_14-44-38
1202061979	961296	1	axc2	3/10/2010	17:50:35	OM_3-10-2010_14-44-38
248547001	961296	1	axc2	3/10/2010	17:51:28	OM_3-10-2010_14-44-38

1202061975	961296	1	axc2	3/10/2010	17:52:22	OM_3-10-2010_14-44-38
1202061978	961296	1	axc2	3/10/2010	17:53:15	OM_3-10-2010_14-44-38
CCV		1	axc2	3/10/2010	17:54:08	OM_3-10-2010_14-44-38
CCB		1	axc2	3/10/2010	17:55:58	OM_3-10-2010_14-44-38
1202061981	961296	1	axc2	3/10/2010	17:57:47	OM_3-10-2010_14-44-38
248605001	961296	1	axc2	3/10/2010	17:58:42	OM_3-10-2010_14-44-38
248622001	961296	1	axc2	3/10/2010	17:59:37	OM_3-10-2010_14-44-38
248622002	961296	1	axc2	3/10/2010	18:00:32	OM_3-10-2010_14-44-38
248622003	961296	1	axc2	3/10/2010	18:01:26	OM_3-10-2010_14-44-38
248622004	961296	1	axc2	3/10/2010	18:02:21	OM_3-10-2010_14-44-38
248622005	961296	1	axc2	3/10/2010	18:03:15	OM_3-10-2010_14-44-38
248622006	961296	1	axc2	3/10/2010	18:04:10	OM_3-10-2010_14-44-38
248626002	961296	1	axc2	3/10/2010	18:05:04	OM_3-10-2010_14-44-38
248629002	961296	1	axc2	3/10/2010	18:05:58	OM_3-10-2010_14-44-38
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CCB		1	axc2	3/10/2010	18:08:41	OM_3-10-2010_14-44-38
248668001	961296	1	axc2	3/10/2010	18:10:31	OM_3-10-2010_14-44-38
1202064174	961296	1	axc2	3/10/2010	18:11:25	OM_3-10-2010_14-44-38
1202064175	961296	1	axc2	3/10/2010	18:12:18	OM_3-10-2010_14-44-38
1202064176	961296	1	axc2	3/10/2010	18:13:12	OM_3-10-2010_14-44-38
248668003	961296	1	axc2	3/10/2010	18:14:05	OM_3-10-2010_14-44-38
248668006	961296	1	axc2	3/10/2010	18:14:58	OM_3-10-2010_14-44-38
248690002	961296	1	axc2	3/10/2010	18:15:54	OM_3-10-2010_14-44-38
1202061974	961296	1	axc2	3/10/2010	18:16:49	OM_3-10-2010_14-44-38
1202061977	961296	1	axc2	3/10/2010	18:17:44	OM_3-10-2010_14-44-38
1202061980	961296	1	axc2	3/10/2010	18:18:39	OM_3-10-2010_14-44-38
CCV		1	axc2	3/10/2010	18:19:31	OM_3-10-2010_14-44-38
CCB		1	axc2	3/10/2010	18:21:22	OM_3-10-2010_14-44-38
1202061972*	961296	1	axc2	3/10/2010	18:23:12	OM_3-10-2010_14-44-38
1202064171	962270	1	axc2	3/10/2010	18:24:07	OM_3-10-2010_14-44-38
1202064173	962270	250	axc2	3/10/2010	18:25:01	OM_3-10-2010_14-44-38
248632001	962270	1	axc2	3/10/2010	18:25:56	OM_3-10-2010_14-44-38
1202064172	962270	1	axc2	3/10/2010	18:26:50	OM_3-10-2010_14-44-38
248726001	962270	1	axc2	3/10/2010	18:27:44	OM_3-10-2010_14-44-38
248727001	962270	1	axc2	3/10/2010	18:28:39	OM_3-10-2010_14-44-38
1202061114	960944	1	axc2	3/10/2010	18:29:33	OM_3-10-2010_14-44-38
1202061116	960944	250	axc2	3/10/2010	18:30:27	OM_3-10-2010_14-44-38
247941001	960944	1	axc2	3/10/2010	18:31:20	OM_3-10-2010_14-44-38
CCV		1	axc2	3/10/2010	18:32:13	OM_3-10-2010_14-44-38
CCB		1	axc2	3/10/2010	18:34:04	OM_3-10-2010_14-44-38
247943001	960944	1	axc2	3/10/2010	18:35:54	OM_3-10-2010_14-44-38
248227001	960944	1	axc2	3/10/2010	18:36:47	OM_3-10-2010_14-44-38
1202061115	960944	1	axc2	3/10/2010	18:37:43	OM_3-10-2010_14-44-38
248228001	960944	1	axc2	3/10/2010	18:38:38	OM_3-10-2010_14-44-38
1202061972	961296	1	axc2	3/10/2010	18:39:33	OM_3-10-2010_14-44-38
CCV		1	axc2	3/10/2010	18:40:26	OM_3-10-2010_14-44-38
CCB		1	axc2	3/10/2010	18:42:16	OM_3-10-2010_14-44-38

Original Run Filename: OM_3-10-2010_14-44-38.OMN created 3/10/2010 14:44:38
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_3-10-2010_14-44-38.OMN last modified 3/10/2010 18:43:21
 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)				
WCN100310-03	1	S3	101	5.59	3/10/2010@14:46:09			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			1.4 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			1.4 < 10.0					
Message			CCV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100310-08	1	S7	-1.25	0.0344	3/10/2010@14:47:59			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.25 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.25 > -5.00					
Message			CCB Passed					
Action			Continue					
1202057153|959214|MB	1	1	-1.89	-2.63e-4	3/10/2010@14:49:49			
1202057160|LCS	1	2	23.9	1.40	3/10/2010@14:50:42		25.00	
248241003	1	3	-0.868	0.0552	3/10/2010@14:51:36			
1202057154|DUP	1	4	-0.808	0.0585	3/10/2010@14:52:29			
1202057156|MS	1	5	93.2	5.15	3/10/2010@14:53:21			
1202057158|MSD	1	6	97.1	5.35	3/10/2010@14:54:14			
248241004	1	7	2.02	0.212	3/10/2010@14:55:07			
1202057155|DUP	1	8	2.93	0.261	3/10/2010@14:55:59			
1202057157|MS	1	9	91.5	5.06	3/10/2010@14:56:52			
1202057159|MSD	1	10	94.1	5.19	3/10/2010@14:57:44			
WCN100310-03	1	S3	99.4	5.48	3/10/2010@14:58:37			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-0.6 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-0.6 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100310-08	1	S7	-1.36	0.0284	3/10/2010@15:00:26			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.36 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.36 > -5.00					
Message			CCB Passed					
Action			Continue					
248241005	1	11	2.21	0.222	3/10/2010@15:02:15			
248241006	1	12	9.19	0.600	3/10/2010@15:03:07			
248241007	1	13	23.5	1.38	3/10/2010@15:03:58			
248241008	1	14	18.9	1.12	3/10/2010@15:04:50			
248241009	1	15	5.54	0.402	3/10/2010@15:05:41			

248241010	1	16	10.9	0.691	3/10/2010@15:06:35			
248247001	1	17	-0.0248	0.101	3/10/2010@15:07:29			
248247002	1	18	-0.174	0.0928	3/10/2010@15:08:23			
248247003	1	19	0.0492	0.105	3/10/2010@15:09:16			
248247004	1	20	-0.0334	0.100	3/10/2010@15:10:09			
WCN100310-03	1	S3	102	5.60	3/10/2010@15:11:01			CCV
Known Conc: 100								
DQM Test: > + Percent Relative Difference								
Result: 1.7 < 10.0								
Message CCB Passed								
Action Continue								
DQM Test: < - Percent Relative Difference								
Result: 1.7 < 10.0								
Message CCB Passed								
Action Continue								
WCN100310-08	1	S7	-2.08	-0.0106	3/10/2010@15:12:52			CCB
Known Conc: 0.00								
DQM Test: > + Concentration Limit								
Result: -2.08 < 5.00								
Message CCB Passed								
Action Continue								
DQM Test: < - Concentration Limit								
Result: -2.08 > -5.00								
Message CCB Passed								
Action Continue								
248247005	1	21	-0.240	0.0892	3/10/2010@15:14:40			
248247006	1	22	0.203	0.113	3/10/2010@15:15:34			
248247007	1	23	-0.185	0.0922	3/10/2010@15:16:26			
248247008	1	24	0.122	0.109	3/10/2010@15:17:19			
248250001	1	25	24.9	1.45	3/10/2010@15:18:11			
248250002	1	26	27.8	1.60	3/10/2010@15:19:04			
248250003	1	27	45.7	2.58	3/10/2010@15:19:56			
248250004	1	28	15.9	0.964	3/10/2010@15:20:48			
1202059694|960266|MB	1	29	-1.07	0.0444	3/10/2010@15:21:40			
1202059701|LCS	1	30	33.9	1.94	3/10/2010@15:22:31		25.00	
WCN100310-03	1	S3	101	5.58	3/10/2010@15:23:25			CCV
Known Conc: 100								
DQM Test: > + Percent Relative Difference								
Result: 1.2 < 10.0								
Message CCB Passed								
Action Continue								
DQM Test: < - Percent Relative Difference								
Result: 1.2 < 10.0								
Message CCB Passed								
Action Continue								
WCN100310-08	1	S7	-1.31	0.0313	3/10/2010@15:25:14			CCB
Known Conc: 0.00								
DQM Test: > + Concentration Limit								
Result: -1.31 < 5.00								
Message CCB Passed								
Action Continue								
DQM Test: < - Concentration Limit								
Result: -1.31 > -5.00								
Message CCB Passed								
Action Continue								
248256001	1	31	-0.892	0.0539	3/10/2010@15:27:04			
248256002	1	32	-1.06	0.0447	3/10/2010@15:27:58			
248256003	1	33	-1.19	0.0378	3/10/2010@15:28:51			
248256004	1	34	-1.41	0.0256	3/10/2010@15:29:45			
248256005	1	35	0.792	0.145	3/10/2010@15:30:38			
248256006	1	36	-1.39	0.0271	3/10/2010@15:31:31			
248256007	1	37	-1.28	0.0330	3/10/2010@15:32:25			
248374008	1	38	5.88	0.420	3/10/2010@15:33:18			
1202059695|DUP	1	39	4.57	0.349	3/10/2010@15:34:10			
1202059697|MS	1	40	85.0	4.70	3/10/2010@15:35:02			
WCN100310-03	1	S3	101	5.58	3/10/2010@15:35:55			CCV
Known Conc: 100								
DQM Test: > + Percent Relative Difference								

			Result:	1.2 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	1.2 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100310-08	1	S7		-1.31	0.0311	3/10/2010@15:37:45		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	-1.31 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-1.31 > -5.00				
			Message	CCB Passed				
			Action	Continue				
1202059699||MSD	1	41		84.8	4.69	3/10/2010@15:39:33		
248374009	1	42		3.15	0.272	3/10/2010@15:40:26		
1202059696||DUP	1	43		3.02	0.265	3/10/2010@15:41:18		
1202059698||MS	1	44		94.0	5.19	3/10/2010@15:42:10		
1202059700||MSD	1	45		93.9	5.18	3/10/2010@15:43:02		
248374010	1	46		1.68	0.193	3/10/2010@15:43:56		
248374011	1	47		0.479	0.128	3/10/2010@15:44:50		
248374012	1	48		0.249	0.116	3/10/2010@15:45:44		
248374013	1	49		9.65	0.624	3/10/2010@15:46:37		
248389002	1	50		-1.29	0.0321	3/10/2010@15:47:31		
WCN100310-03	1	S3		100	5.52	3/10/2010@15:48:24		CCV
			Known Conc:	100				
DQM Test: > + Percent Relative Difference								
			Result:	0.2 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	0.2 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100310-08	1	S7		-2.34	-0.0244	3/10/2010@15:50:14		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	-2.34 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-2.34 > -5.00				
			Message	CCB Passed				
			Action	Continue				
248389003	1	51		-1.16	0.0394	3/10/2010@15:52:03		
248396001	1	52		-1.18	0.0381	3/10/2010@15:52:56		
248396002	1	53		-1.36	0.0285	3/10/2010@15:53:49		
248396003	1	54		-1.30	0.0318	3/10/2010@15:54:43		
248396004	1	55		-1.19	0.0380	3/10/2010@15:55:35		
248396005	1	56		-1.31	0.0315	3/10/2010@15:56:28		
1202059686|960263|MB	1	57		-1.34	0.0298	3/10/2010@15:57:20		
1202059693||LCS	1	58		25.7	1.49	3/10/2010@15:58:12	25.00	
248371008	1	59		-0.223	0.0901	3/10/2010@15:59:05		
1202059687||DUP	1	60		-0.110	0.0962	3/10/2010@15:59:56		
WCN100310-03	1	S3		101	5.57	3/10/2010@16:00:49		CCV
			Known Conc:	100				
DQM Test: > + Percent Relative Difference								
			Result:	1.1 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	1.1 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100310-08	1	S7		-1.38	0.0278	3/10/2010@16:02:39		CCB

Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.38 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.38 > -5.00				
Message			CCB Passed				
Action			Continue				
1202059689	MS	1	61	81.1	4.49	3/10/2010@16:04:30	
1202059691	MSD	1	62	82.2	4.55	3/10/2010@16:05:24	
248371009		1	63	0.778	0.144	3/10/2010@16:06:18	
1202059688	DUP	1	64	0.979	0.155	3/10/2010@16:07:12	
1202059690	MS	1	65	79.3	4.39	3/10/2010@16:08:05	
1202059692	MSD	1	66	83.8	4.64	3/10/2010@16:08:59	
248371010		1	67	6.81	0.471	3/10/2010@16:09:53	
248371011		1	68	-0.217	0.0904	3/10/2010@16:10:45	
248371012		1	69	-0.606	0.0694	3/10/2010@16:11:38	
248371013		1	70	-0.723	0.0631	3/10/2010@16:12:32	
WCN100310-03		1	S3	99.9	5.51	3/10/2010@16:13:24	CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			-0.1 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			-0.1 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100310-08		1	S7	-1.22	0.0361	3/10/2010@16:15:15	CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.22 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.22 > -5.00				
Message			CCB Passed				
Action			Continue				
248371014		1	71	0.304	0.119	3/10/2010@16:17:03	
248371015		1	72	0.547	0.132	3/10/2010@16:17:55	
248371016		1	73	-0.154	0.0938	3/10/2010@16:18:48	
248371017		1	74	1.73	0.196	3/10/2010@16:19:40	
248371018		1	75	2.61	0.243	3/10/2010@16:20:32	
248371019		1	76	0.297	0.118	3/10/2010@16:21:27	
248371020		1	77	2.04	0.213	3/10/2010@16:22:22	
248374001		1	78	5.50	0.400	3/10/2010@16:23:16	
248374002		1	79	9.51	0.616	3/10/2010@16:24:10	
248374003		1	80	5.30	0.389	3/10/2010@16:25:04	
WCN100310-03		1	S3	100	5.52	3/10/2010@16:25:56	CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			0.1 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			0.1 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100310-08		1	S7	-1.22	0.0359	3/10/2010@16:27:46	CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.22 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.22 > -5.00				
Message			CCB Passed				

		Action	Continue					
248374001	1	78	3.52	0.293	3/10/2010@16:29:36			
248374004	1	81	10.3	0.658	3/10/2010@16:30:31			
248374005	1	82	2.68	0.247	3/10/2010@16:31:23			
248374006	1	83	4.44	0.342	3/10/2010@16:32:18			
248374007	1	84	3.05	0.267	3/10/2010@16:33:10			
1202059677|960259|MB	1	85	-1.17	0.0391	3/10/2010@16:34:03			
1202059684||LCS	1	86	22.9	1.34	3/10/2010@16:34:56		25.00	
248371001	1	87	8.42	0.558	3/10/2010@16:35:49			
248371002	1	88	1.39	0.177	3/10/2010@16:36:41			
248371003	1	89	1.33	0.174	3/10/2010@16:37:34			
WCN100310-03	1	S3	104	5.73	3/10/2010@16:38:27			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			3.9 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			3.9 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100310-08	1	S7	-1.45	0.0234	3/10/2010@16:40:17			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.45 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.45 > -5.00					
Message			CCB Passed					
Action			Continue					
248371004	1	90	2.35	0.229	3/10/2010@16:42:05			
248371005	1	91	3.82	0.309	3/10/2010@16:43:00			
248371006	1	92	1.71	0.194	3/10/2010@16:43:54			
248371007	1	93	1.33	0.174	3/10/2010@16:44:49			
248408015	1	94	4.84	0.364	3/10/2010@16:45:43			
1202059678||DUP	1	95	27.2	1.58	3/10/2010@16:46:37			
1202059680||MS	1	96	82.3	4.56	3/10/2010@16:47:31			
1202059682||MSD	1	97	88.5	4.89	3/10/2010@16:48:25			
248408016	1	98	0.241	0.115	3/10/2010@16:49:18			
1202059679||DUP	1	99	0.124	0.109	3/10/2010@16:50:12			
WCN100310-03	1	S3	104	5.73	3/10/2010@16:51:04			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			4.1 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			4.1 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100310-08	1	S7	-2.02	-0.00711	3/10/2010@16:52:54			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-2.02 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-2.02 > -5.00					
Message			CCB Passed					
Action			Continue					
1202059681||MS	1	100	96.2	5.31	3/10/2010@16:54:44			
1202059683||MSD	1	101	95.6	5.27	3/10/2010@16:55:37			
248408017	1	102	10.2	0.656	3/10/2010@16:56:30			
248408018	1	103	0.330	0.120	3/10/2010@16:57:23			
248418001	1	104	-0.290	0.0865	3/10/2010@16:58:15			
248418002	1	105	-0.923	0.0522	3/10/2010@16:59:08			
248418003	1	106	0.887	0.150	3/10/2010@17:00:02			

248418004	1	107	-0.602	0.0696	3/10/2010@17:00:57		
248418005	1	108	-0.0596	0.0989	3/10/2010@17:01:51		
248418006	1	109	0.649	0.137	3/10/2010@17:02:45		
WCN100310-03	1	S3	106	5.85	3/10/2010@17:03:38		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			6.2 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			6.2 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100310-08	1	S7	-2.06	-0.00904	3/10/2010@17:05:28		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-2.06 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-2.06 > -5.00				
Message			CCB Passed				
Action			Continue				
248418007	1	110	2.86	0.257	3/10/2010@17:07:18		
248418008	1	111	-0.216	0.0905	3/10/2010@17:08:12		
248418009	1	112	10.2	0.655	3/10/2010@17:09:07		
1202059669|960257|MB	1	113	-1.02	0.0470	3/10/2010@17:10:01		
1202059676|LCS	1	114	24.4	1.42	3/10/2010@17:10:54	25.00	
248383001	1	115	-0.461	0.0772	3/10/2010@17:11:48		
1202059670|DUP	1	116	-0.401	0.0805	3/10/2010@17:12:41		
1202059672|MS	1	117	92.5	5.11	3/10/2010@17:13:34		
1202059674|MSD	1	118	98.3	5.42	3/10/2010@17:14:27		
248383002	1	119	2.54	0.240	3/10/2010@17:15:20		
WCN100310-03	1	S3	104	5.73	3/10/2010@17:16:12		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			4.0 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			4.0 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100310-08	1	S7	-1.33	0.0300	3/10/2010@17:18:03		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.33 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.33 > -5.00				
Message			CCB Passed				
Action			Continue				
1202059671|DUP	1	120	2.11	0.216	3/10/2010@17:19:52		
1202059673|MS	1	121	95.8	5.29	3/10/2010@17:20:46		
1202059675|MSD	1	122	96.6	5.33	3/10/2010@17:21:41		
248383003	1	123	1.20	0.167	3/10/2010@17:22:36		
248383004	1	124	-0.736	0.0624	3/10/2010@17:23:30		
248383005	1	125	-0.877	0.0547	3/10/2010@17:24:25		
248383006	1	126	-0.944	0.0511	3/10/2010@17:25:19		
248408001	1	127	1.28	0.171	3/10/2010@17:26:13		
248408002	1	128	6.21	0.438	3/10/2010@17:27:07		
248408003	1	129	75.3	4.18	3/10/2010@17:28:01		
WCN100310-03	1	S3	104	5.72	3/10/2010@17:28:53		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			3.8 < 10.0				
Message			CCV Passed				

		Action	Continue				
DQM Test: < - Percent Relative Difference							
		Result:	3.8 < 10.0				
		Message	CCV Passed				
		Action	Continue				
WCN100310-08	1	S7	-1.42	0.0253	3/10/2010@17:30:44		CCB
		Known Conc:	0.00				
DQM Test: > + Concentration Limit							
		Result:	-1.42 < 5.00				
		Message	CCB Passed				
		Action	Continue				
DQM Test: < - Concentration Limit							
		Result:	-1.42 > -5.00				
		Message	CCB Passed				
		Action	Continue				
248408004	1	130	-0.845	0.0564	3/10/2010@17:32:33		
248408005	1	131	-0.117	0.0958	3/10/2010@17:33:26		
248408006	1	132	0.423	0.125	3/10/2010@17:34:20		
248408007	1	133	2.01	0.211	3/10/2010@17:35:13		
248408008	1	134	0.455	0.127	3/10/2010@17:36:06		
248408009	1	135	1.57	0.187	3/10/2010@17:36:59		
248408010	1	136	-1.32	0.0308	3/10/2010@17:37:54		
248408011	1	137	0.684	0.139	3/10/2010@17:38:49		
248408012	1	138	0.769	0.144	3/10/2010@17:39:43		
248408013	1	139	-0.833	0.0571	3/10/2010@17:40:38		
WCN100310-03	1	S3	104	5.72	3/10/2010@17:41:31		CCV
		Known Conc:	100				
DQM Test: > + Percent Relative Difference							
		Result:	3.8 < 10.0				
		Message	CCV Passed				
		Action	Continue				
DQM Test: < - Percent Relative Difference							
		Result:	3.8 < 10.0				
		Message	CCV Passed				
		Action	Continue				
WCN100310-08	1	S7	-0.935	0.0516	3/10/2010@17:43:21		CCB
		Known Conc:	0.00				
DQM Test: > + Concentration Limit							
		Result:	-0.935 < 5.00				
		Message	CCB Passed				
		Action	Continue				
DQM Test: < - Concentration Limit							
		Result:	-0.935 > -5.00				
		Message	CCB Passed				
		Action	Continue				
248408014	1	140	-0.494	0.0754	3/10/2010@17:45:11		
1202061972|961296|MB	1	141	12.6	0.782	3/10/2010@17:46:05		
1202061982|LCS	1	142	51.3	2.88	3/10/2010@17:46:59		
248321002	1	143	-0.134	0.0949	3/10/2010@17:47:53		
1202061973|DUP	1	144	-0.820	0.0578	3/10/2010@17:48:48		
1202061976|MS	1	145	103	5.68	3/10/2010@17:49:42		
1202061979|MSD	1	146	86.4	4.78	3/10/2010@17:50:35		
248547001	1	147	-1.23	0.0354	3/10/2010@17:51:28		
1202061975|DUP	1	148	-1.51	0.0202	3/10/2010@17:52:22		
1202061978|MS	1	149	74.2	4.12	3/10/2010@17:53:15		
WCN100310-03	1	S3	104	5.75	3/10/2010@17:54:08		CCV
		Known Conc:	100				
DQM Test: > + Percent Relative Difference							
		Result:	4.3 < 10.0				
		Message	CCV Passed				
		Action	Continue				
DQM Test: < - Percent Relative Difference							
		Result:	4.3 < 10.0				
		Message	CCV Passed				
		Action	Continue				
WCN100310-08	1	S7	-1.38	0.0274	3/10/2010@17:55:58		CCB
		Known Conc:	0.00				
DQM Test: > + Concentration Limit							

			Result:	-1.38 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-1.38 > -5.00				
			Message	CCB Passed				
			Action	Continue				
1202061981	MSD	1	150	84.0	4.65	3/10/2010@17:57:47		
248605001		1	151	39.4	2.23	3/10/2010@17:58:42		
248622001		1	152	-0.368	0.0823	3/10/2010@17:59:37		
248622002		1	153	-0.636	0.0678	3/10/2010@18:00:32		
248622003		1	154	-0.771	0.0604	3/10/2010@18:01:26		
248622004		1	155	-0.412	0.0799	3/10/2010@18:02:21		
248622005		1	156	-0.857	0.0558	3/10/2010@18:03:15		
248622006		1	157	0.861	0.149	3/10/2010@18:04:10		
248626002		1	158	0.246	0.115	3/10/2010@18:05:04		
248629002		1	159	20.9	1.23	3/10/2010@18:05:58		
WCN100310-03		1	S3	104	5.75	3/10/2010@18:06:50		CCV
			Known Conc:	100				
DQM Test: > + Percent Relative Difference								
			Result:	4.4 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	4.4 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100310-08		1	S7	-1.02	0.0470	3/10/2010@18:08:41		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				
248668001		1	160	-1.80	0.00460	3/10/2010@18:10:31		
1202064174	DUP	1	161	-1.28	0.0327	3/10/2010@18:11:25		
1202064175	MS	1	162	76.1	4.22	3/10/2010@18:12:18		
1202064176	MSD	1	163	79.7	4.41	3/10/2010@18:13:12		
248668003		1	164	-1.22	0.0361	3/10/2010@18:14:05		
248668006		1	165	-1.44	0.0240	3/10/2010@18:14:58		
248690002		1	166	-1.12	0.0415	3/10/2010@18:15:54		
1202061974	DUP	1	167	-0.892	0.0539	3/10/2010@18:16:49		
1202061977	MS	1	168	102	5.63	3/10/2010@18:17:44		
1202061980	MSD	1	169	98.3	5.42	3/10/2010@18:18:39		
WCN100310-03		1	S3	105	5.77	3/10/2010@18:19:31		CCV
			Known Conc:	100				
DQM Test: > + Percent Relative Difference								
			Result:	4.8 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	4.8 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100310-08		1	S7	-2.37	-0.0259	3/10/2010@18:21:22		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	-2.37 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-2.37 > -5.00				
			Message	CCB Passed				
			Action	Continue				
1202061972	961296/MB	1	141	12.8	0.797	3/10/2010@18:23:12		

1202064171|962270|MB	1	170	-1.59	0.0162	3/10/2010@18:24:07			
1202064173|LCS	1	171	84.7	4.68	3/10/2010@18:25:01	250.00		
248632001	1	172	2.73	0.250	3/10/2010@18:25:56			
1202064172|DUP	1	173	-1.87	0.00117	3/10/2010@18:26:50			
248726001	1	174	-1.42	0.0252	3/10/2010@18:27:44			
248727001	1	175	-1.40	0.0261	3/10/2010@18:28:39			
1202061114|960944|MB	1	176	-1.77	0.00623	3/10/2010@18:29:33			
1202061116|LCS	1	177	77.2	4.28	3/10/2010@18:30:27	250.00		
247941001	1	178	-1.64	0.0137	3/10/2010@18:31:20			
WCN100310-03	1	S3	106	5.83	3/10/2010@18:32:13			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			5.9 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			5.9 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100310-08	1	S7	-0.983	0.0490	3/10/2010@18:34:04			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-0.983 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-0.983 > -5.00					
Message			CCB Passed					
Action			Continue					
247943001	1	179	-2.19	-0.0161	3/10/2010@18:35:54			
248227001	1	180	-1.83	0.00300	3/10/2010@18:36:47			
1202061115|DUP	1	181	-2.26	-0.0203	3/10/2010@18:37:43			
248228001	1	182	14.5	0.889	3/10/2010@18:38:38			
1202061972|961296|MB	1	141	-1.54	0.0186	3/10/2010@18:39:33			
WCN100310-03	1	S3	105	5.79	3/10/2010@18:40:26			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					
WCN100310-08	1	S7	-1.35	0.0290	3/10/2010@18:42:16			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					

Analyte Properties Table for OM_3-10-2010_14-44-38.OMN

Property	Channel 1
	TCYANIDE
Concentration Units	ug/L
Calibration Fit Type	First Order
Clear Calibration	True
Force Through Zero	False
Calibration Weighting	None
Auto Dilution Trigger	True
% of High Standard	100
Quik Chem Method	10-204-00-1-A
Chemistry	Direct/Bipolar

Calibration by Height	False
Inject to Peak Start	22
Peak Base Width	39

Channel 1: Current View

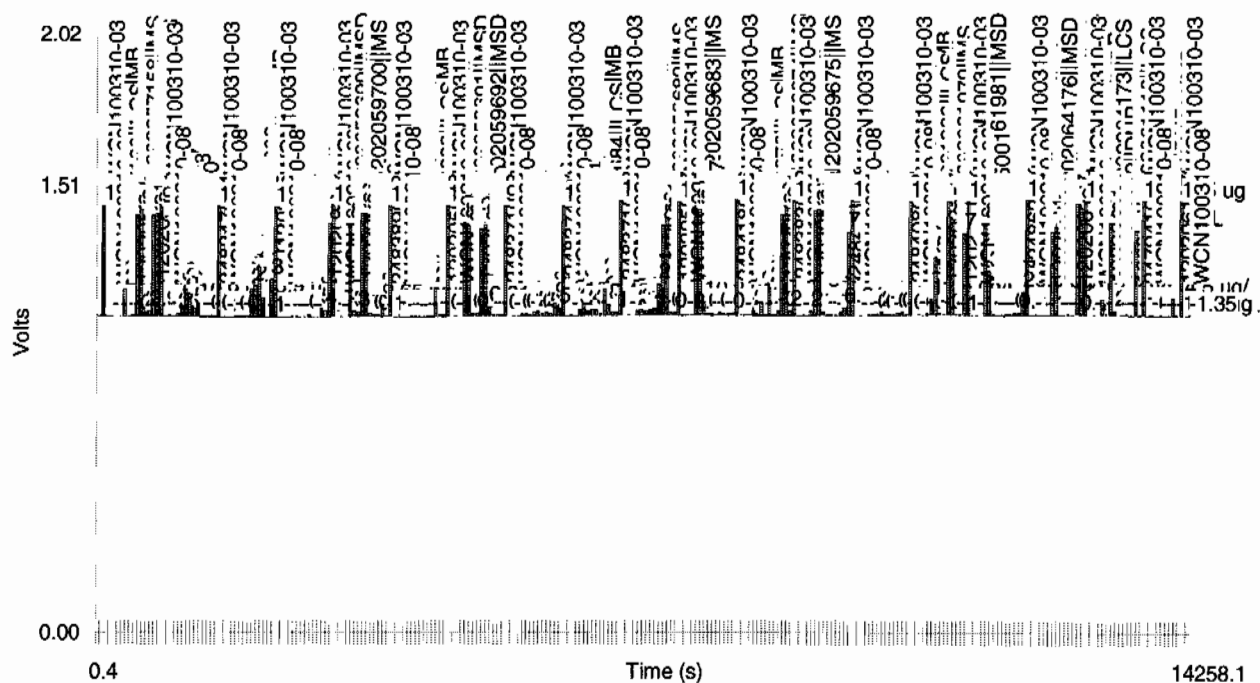
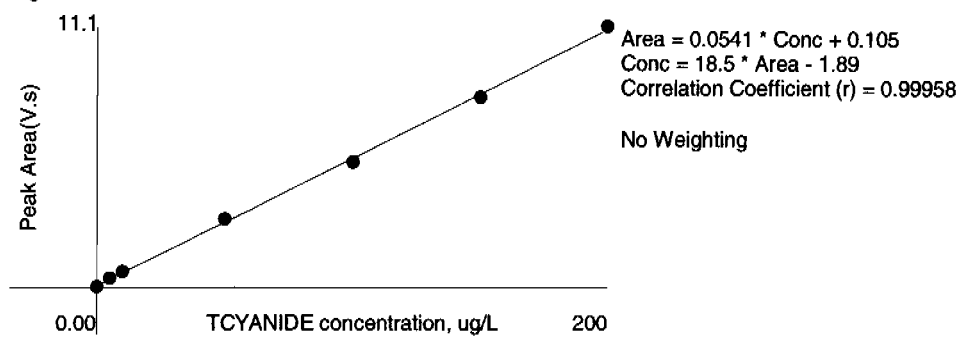


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	11.1	0.707	-1.3	3/10/2010	10:51:58
2	150	1	8.08	0.519	1.6	3/10/2010	10:52:50
3	100	1	5.35	0.347	3.0	3/10/2010	10:53:42
4	50.0	1	2.95	0.188	-5.0	3/10/2010	10:54:35
5	10.0	1	0.687	0.0433	-6.4	3/10/2010	10:55:28
6	5.00	1	0.407	0.0241	-8.2	3/10/2010	10:56:22
7	0.00	1	0.0471	0.00103		3/10/2010	10:57:16

Figure 1: TCYANIDE



Ion Chromatography

Ion Chromatography (IC)

Batch ID:	967001.0	Verified by:		Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
Analyst:	Mary Sherwood			LCS	1202075372	GEL-ANION-4C Spiking Solution	UIC100224SPK	.8	mL
Method:	EPA 300.0 PREP			MS	1202075370	GEL-ANION-4C Spiking Solution	UIC100224SPK	.8	mL
Lab SOP:	GL-GC-E-086 REV# 17			MSD	1202075371	GEL-ANION-4C Spiking Solution	UIC100224SPK	.8	mL
Instrument:	Sartorius Balance B-001								

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202075368 MB	22-MAR-2010 14:50:00	Soil	4	40	10	
1202075372 LCS	22-MAR-2010 14:50:00	Soil	4	40	10	
248247001	22-MAR-2010 14:50:00	Soil	4	40	10	
1202075369 DUP (248247001)	22-MAR-2010 14:50:00	Soil	4	40	10	
1202075370 MS (248247001)	22-MAR-2010 14:50:00	Soil	4	40	10	
1202075371 MSD (248247001)	22-MAR-2010 14:50:00	Soil	4	40	10	
248247002	22-MAR-2010 14:50:00	Soil	4	40	10	
248247003	22-MAR-2010 14:50:00	Soil	4	40	10	
248247004	22-MAR-2010 14:50:00	Soil	4	40	10	
248247005	22-MAR-2010 14:50:00	Soil	4	40	10	
248247006	22-MAR-2010 14:50:00	Soil	4	40	10	
248247007	22-MAR-2010 14:50:00	Soil	4	40	10	
248247008	22-MAR-2010 14:50:00	Soil	4	40	10	

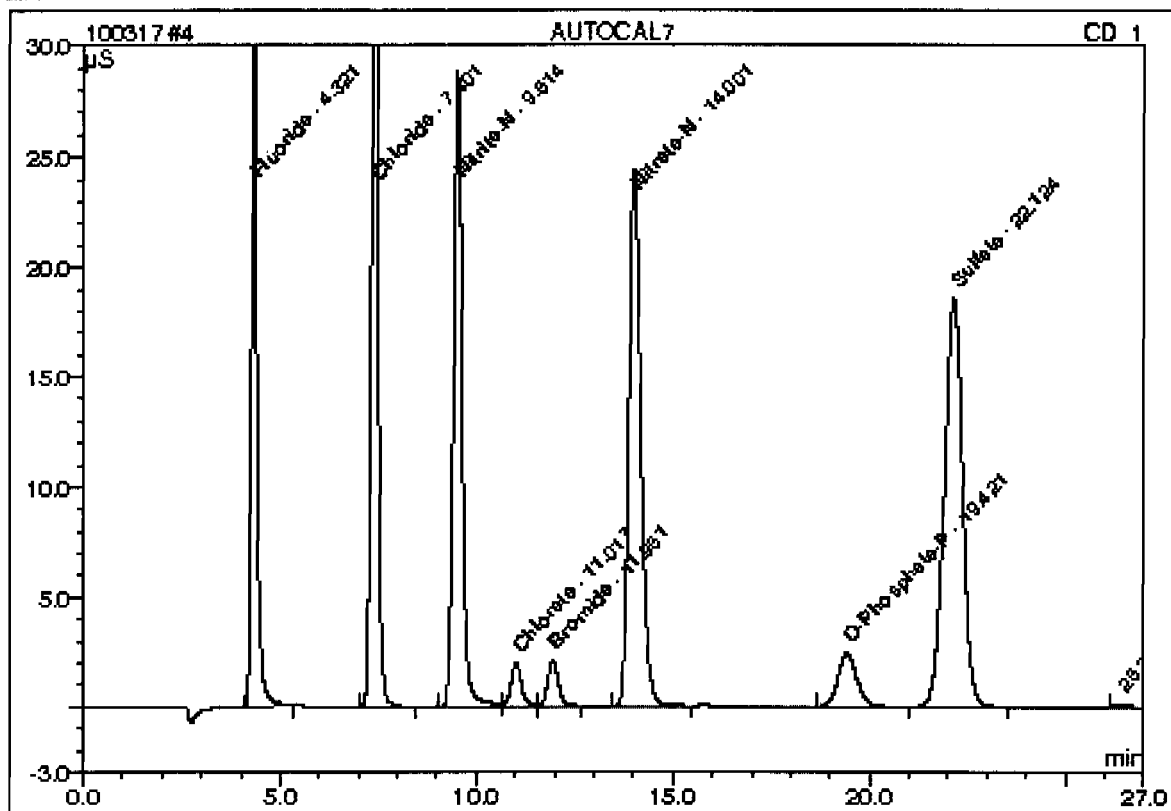
Reagent/Solvent Lot ID Description Amount Comments:

This is runlog for Sequence 100323.seq for IC7

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
ICAL-07	03/17/10 09:15		1	100323	GXM3
ICAL-06	03/17/10 09:45		1	100323	GXM3
ICAL-05	03/17/10 10:15		1	100323	GXM3
ICAL-04	03/17/10 10:45		1	100323	GXM3
ICAL-03	03/17/10 11:15		1	100323	GXM3
ICAL-02	03/17/10 11:45		1	100323	GXM3
ICAL-01	03/17/10 13:14		1	100323	GXM3

4 AUTOCAL7

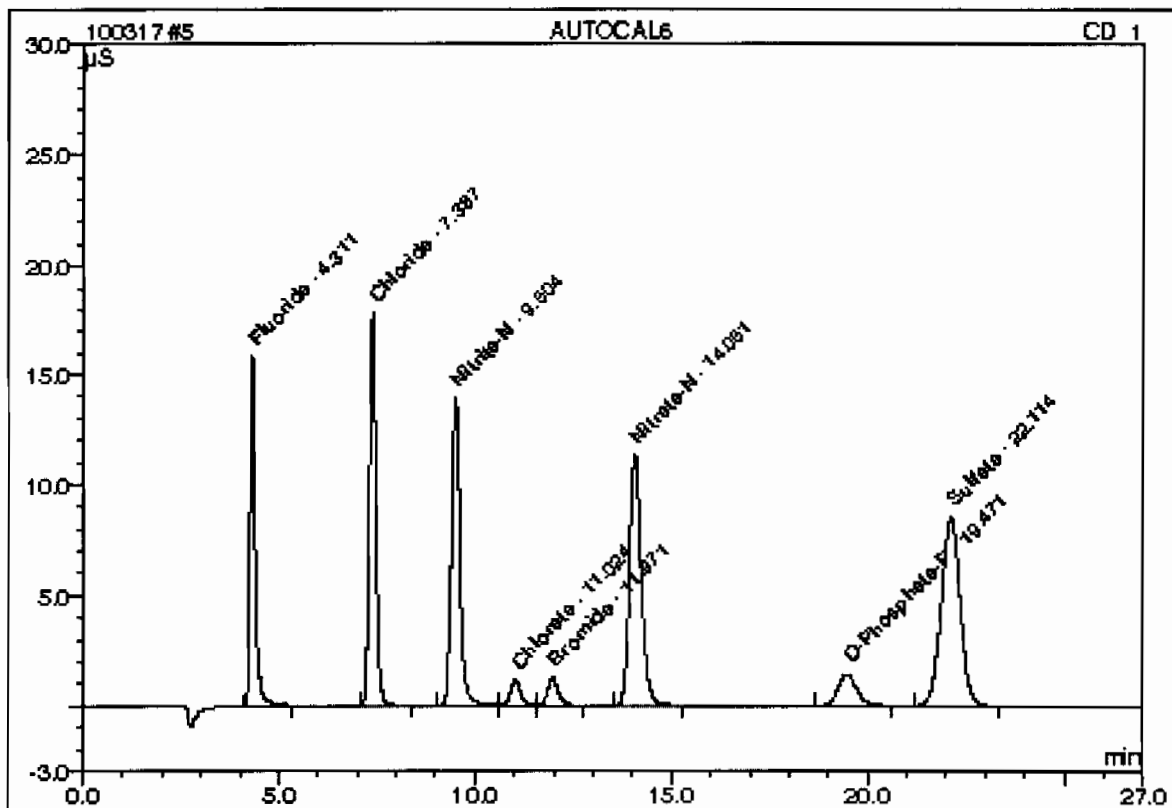
Sample Name:	AUTOCAL7	Injection Volume:	50.0
Vial Number:	4	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 9:15	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL 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

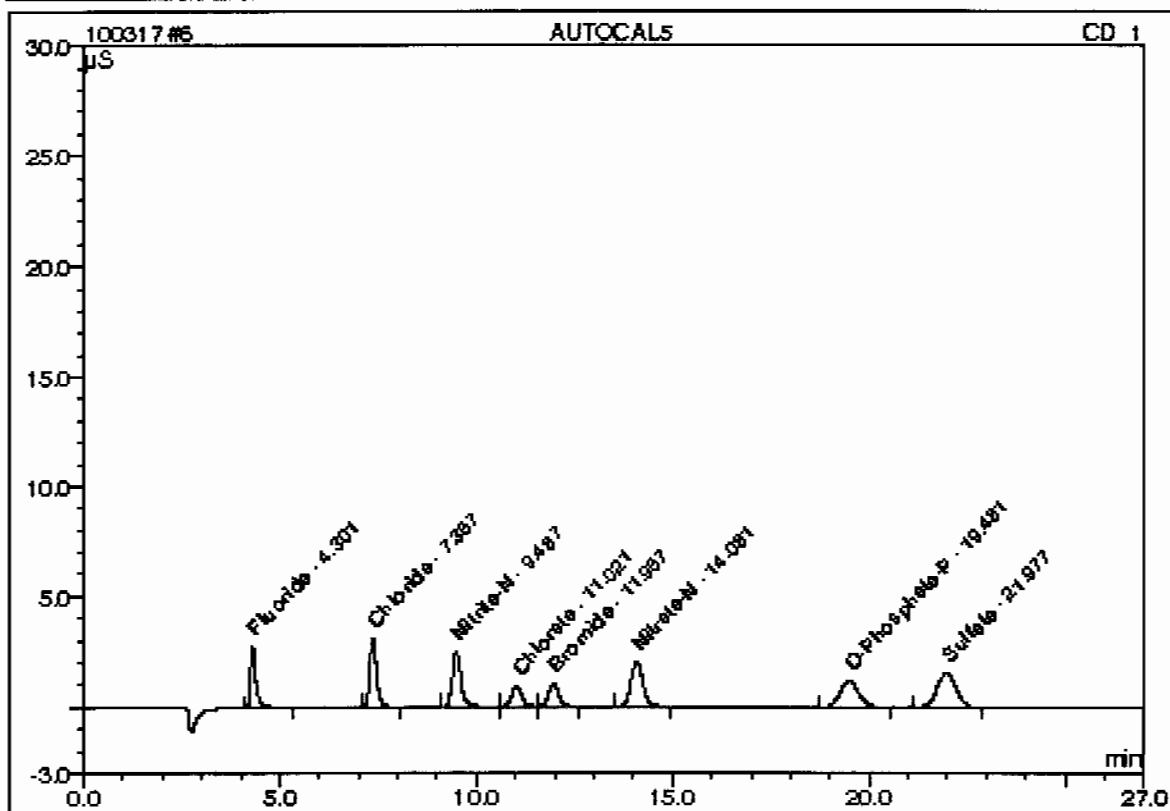
Sample Name:	AUTOCAL6	Injection Volume:	50.0
Vial Number:	5	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 9:45	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL 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	5.0000	4.8820		2.42594	12.44
2	7.39	Chloride	10.0000	9.3500		3.36519	17.28
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		0.38556	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		4.68879	24.05
Total:				51.7885	0.000	19.495	100.00

6 AUTOCAL5

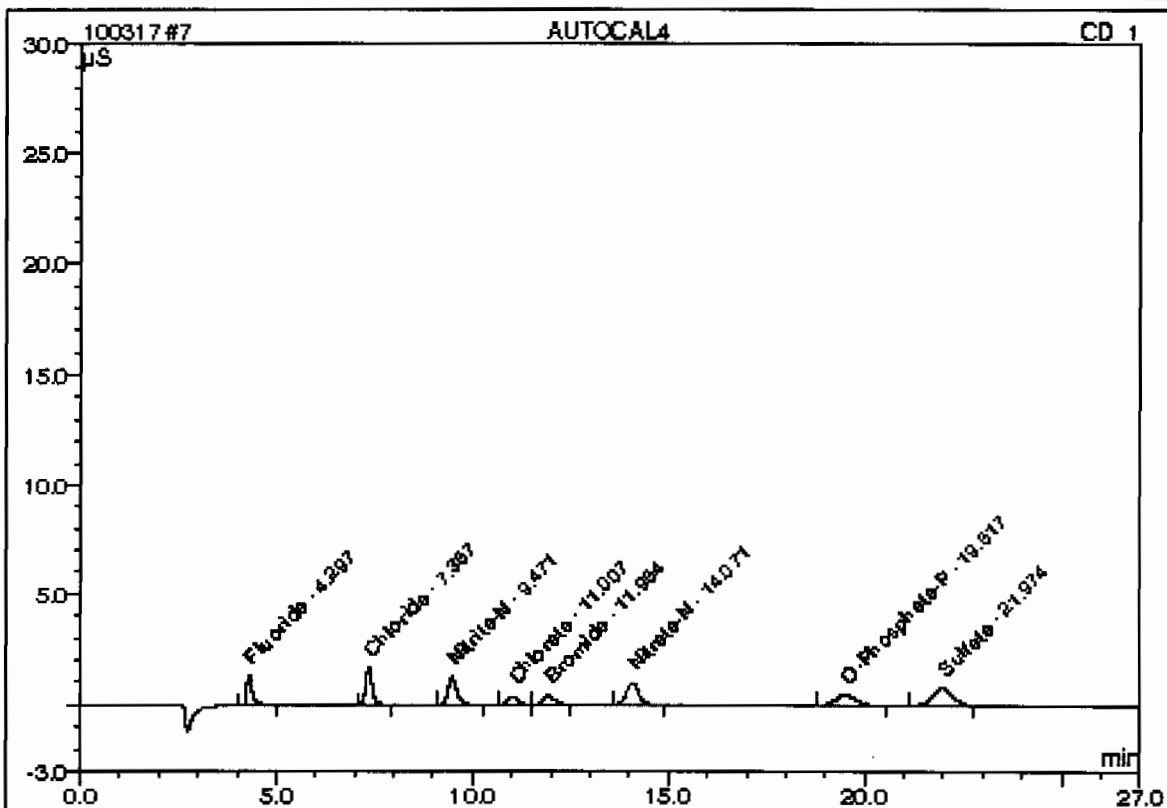
Sample Name:	AUTOCAL5	Injection Volume:	50.0
Vial Number:	6	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 10:15	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL 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	1.0000	0.9378		0.44618	9.89
2	7.37	Chloride	2.0000	1.8432		0.61004	13.52
3	9.49	Nitrate-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

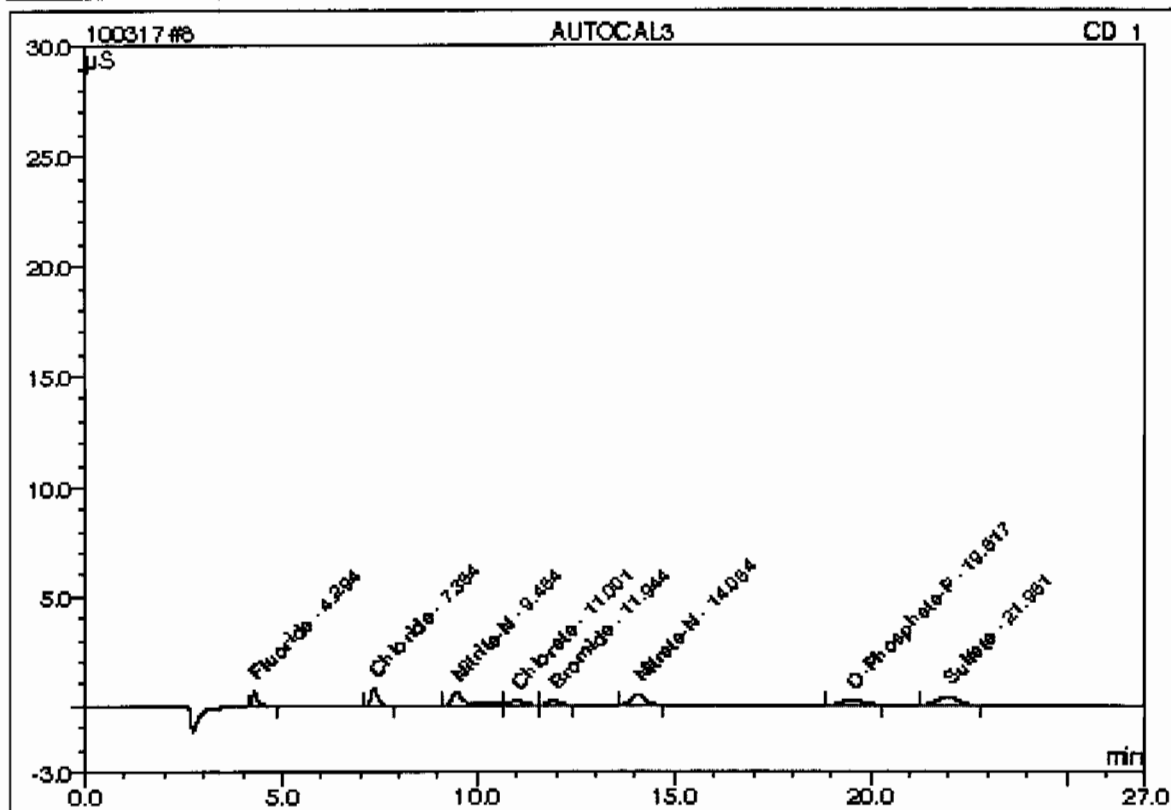
Sample Name:	AUTOCAL4	Injection Volume:	50.0
Vial Number:	7	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 10:45	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86;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

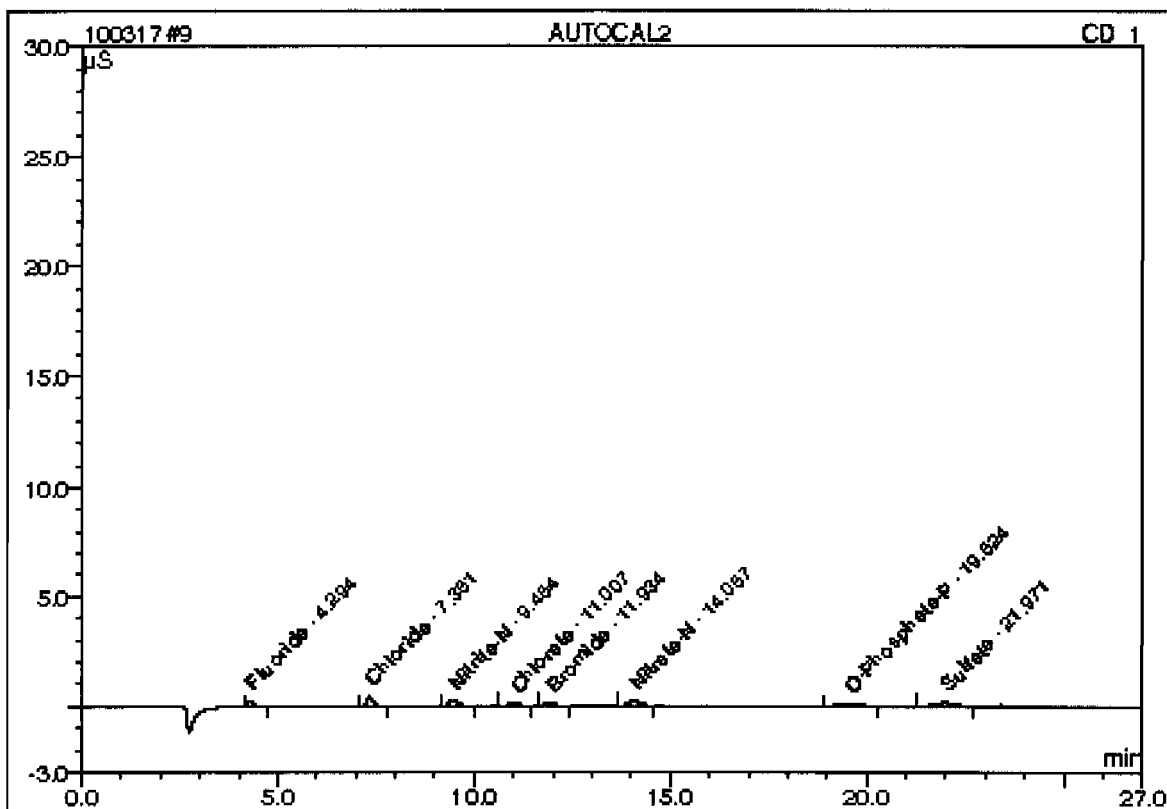
Sample Name:	AUTOCAL3	Injection Volume:	50.0
Vial Number:	8	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 11:15	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL 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	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

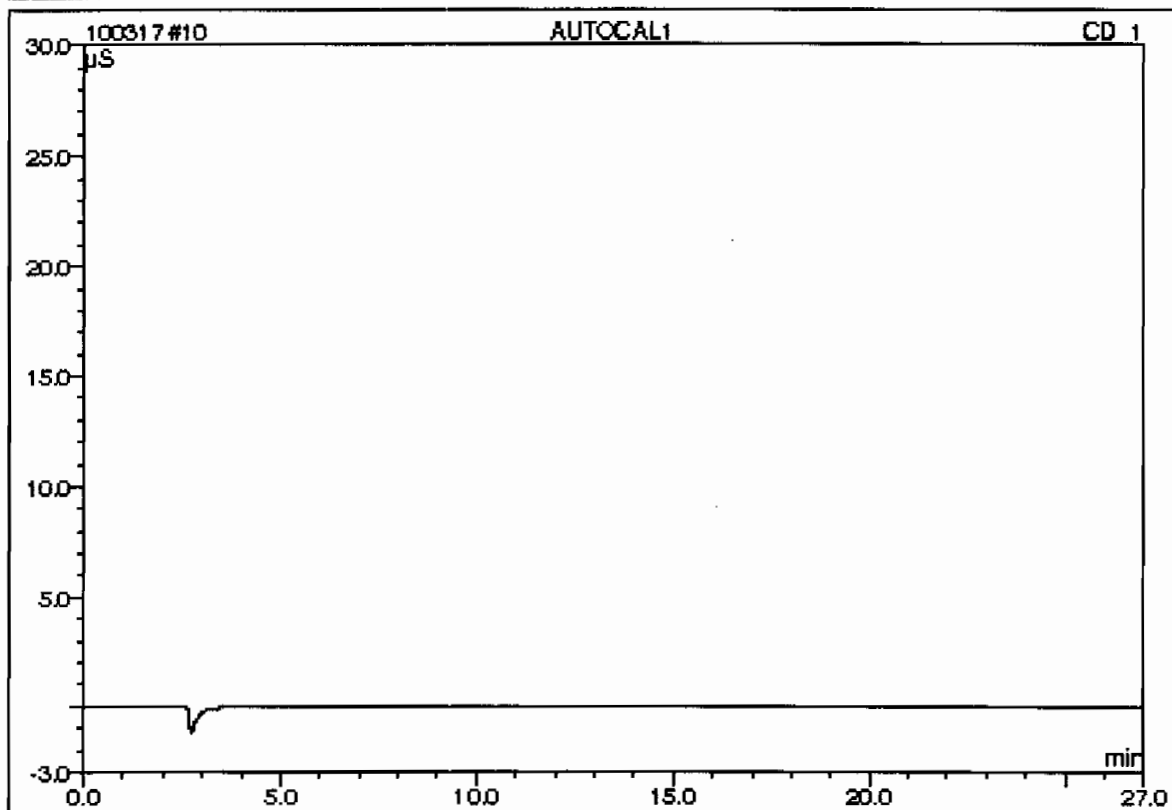
Sample Name:	AUTOCAL2	Injection Volume:	50.0
Vial Number:	9	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 11:45	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area $\mu\text{S} \cdot \text{min}$	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
Quantit. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 13:14	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE088;300;8056



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

Quantit. Method: 100317an

Recording Time: 3/17/2010 13:14

Run Time (min): 27.00

Injection Volume: 50.0

Channel: CD_1

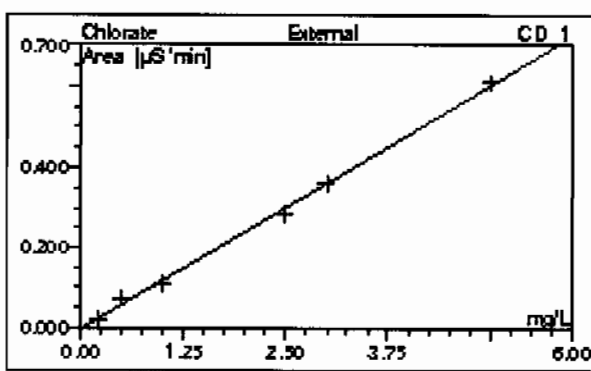
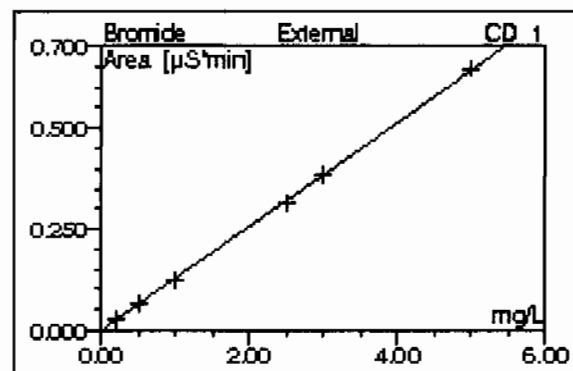
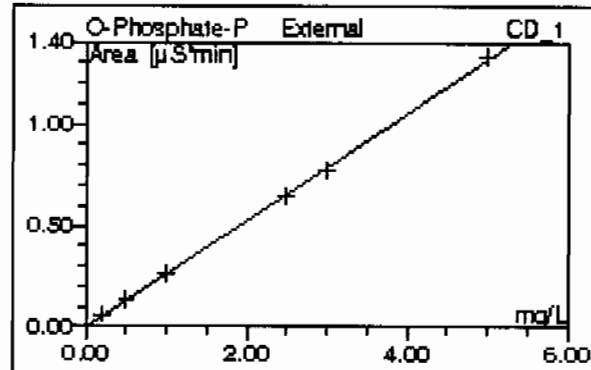
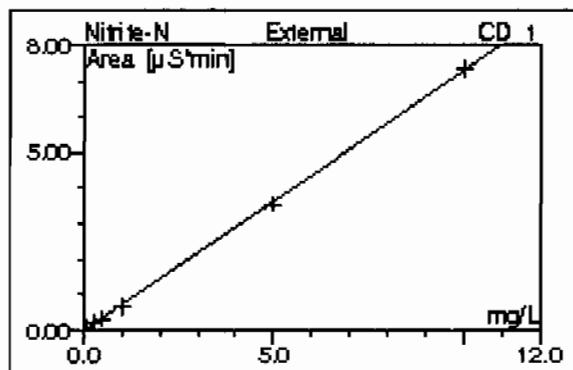
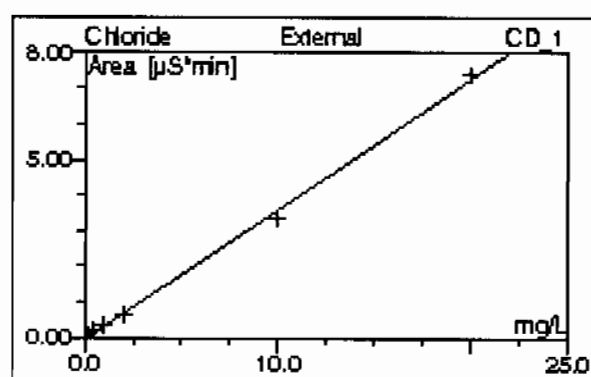
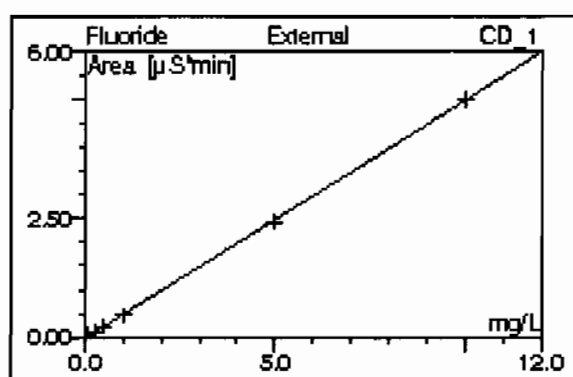
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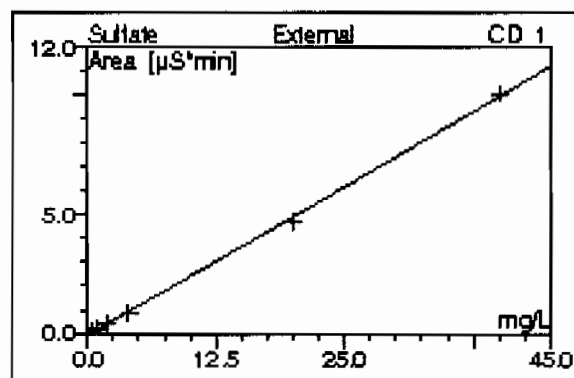
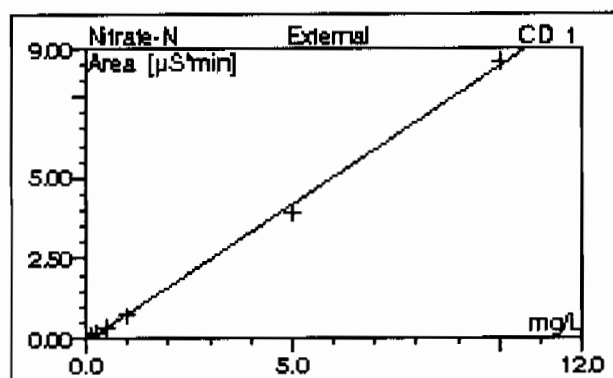
Sample Weight: 1.0000

Sample Amount: 1.0000

Analyst: GXM3

Column: AS23-002714;GLGCE086;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

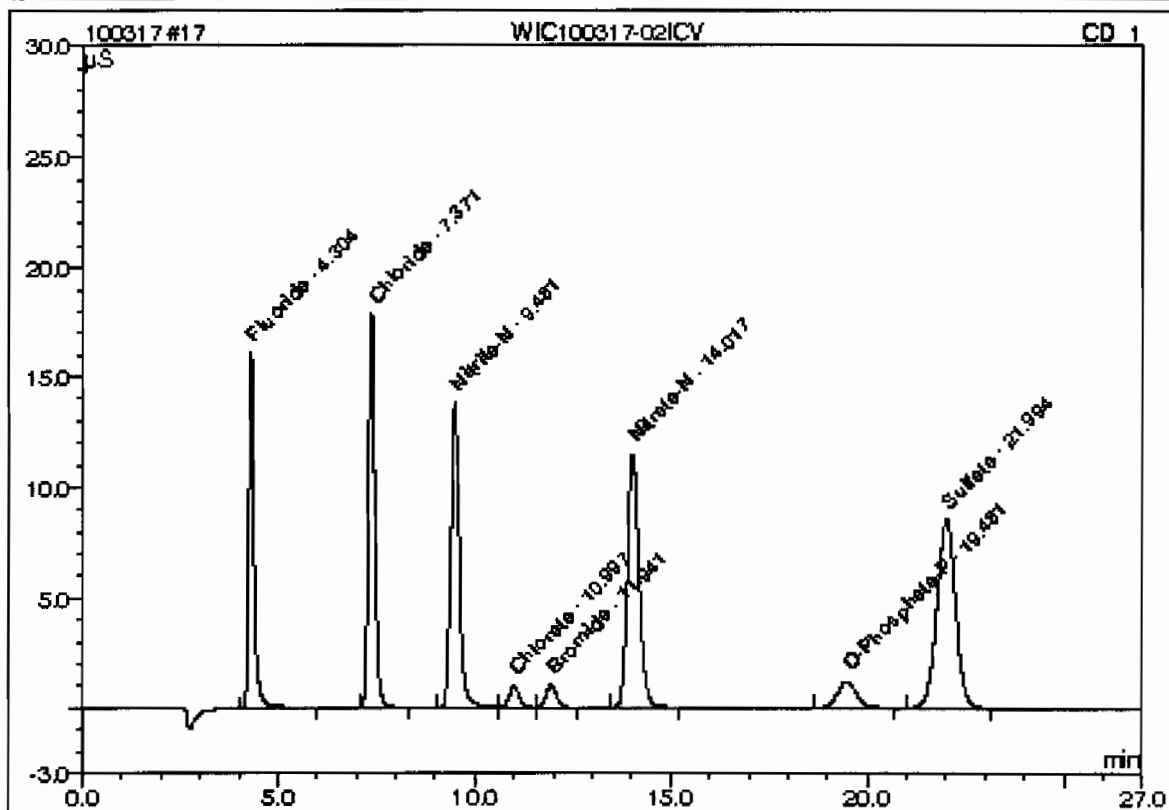
03/17/10 23:39 962082 1

100317

GXM3

17 WIC100317-02ICV

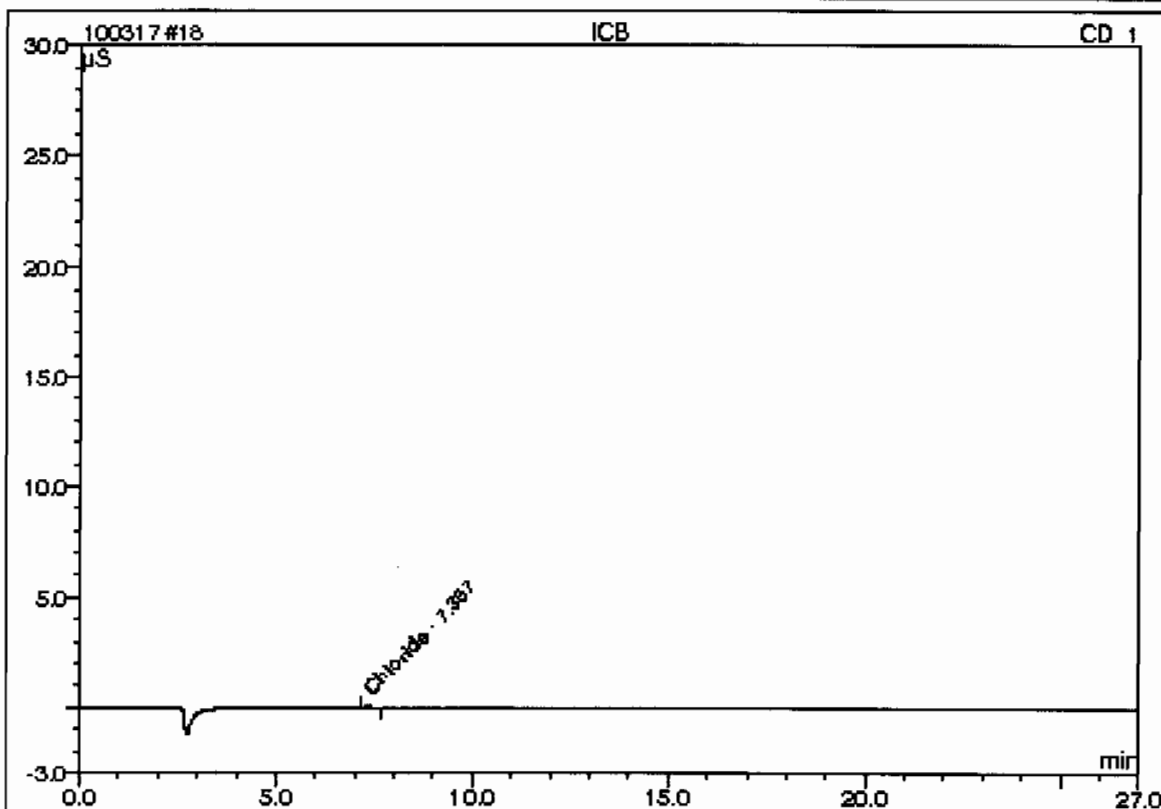
Sample Name:	WIC100317-02ICV	Injection Volume:	50.0
Vial Number:	11	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 13:43	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC E086;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.	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.	18.9805		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:	100317.an	Sample Amount:	1.0000
Recording Time:	3/17/2010 14:12	Analys:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86;300;9056



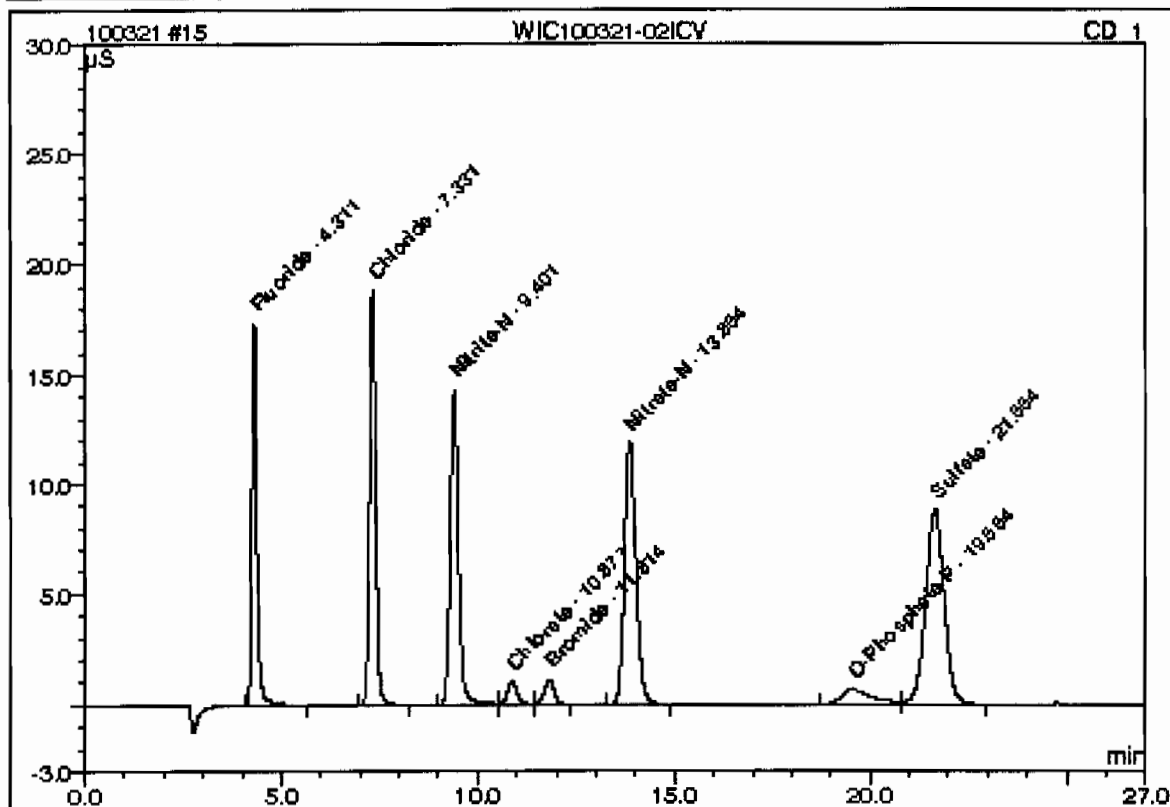
No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
1	7.36	Chloride	n.a.	0.1862		0.01068	100.00
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	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 100321.seq for IC7

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
BLK	03/21/10 12:05		1	100321	GXM3
ICV	03/21/10 12:34		1	100321	GXM3
ICB	03/21/10 13:04		1	100321	GXM3
1202073547	03/21/10 13:34	966234	1	100321	GXM3
1202073554	03/21/10 14:04	966234	1	100321	GXM3
248408001	03/21/10 14:34	966234	1	100321	GXM3
1202073548	03/21/10 15:04	966234	1	100321	GXM3
1202073550	03/21/10 15:34	966234	1	100321	GXM3
1202073552	03/21/10 16:04	966234	1	100321	GXM3
248408002	03/21/10 16:34	966234	1	100321	GXM3
248408003	03/21/10 17:04	966234	1	100321	GXM3
248408004	03/21/10 17:33	966234	1	100321	GXM3
248408005	03/21/10 18:03	966234	1	100321	GXM3
CVH	03/21/10 18:33		1	100321	GXM3
CCB	03/21/10 19:03		1	100321	GXM3
248408006	03/21/10 19:33	966234	1	100321	GXM3
248408007	03/21/10 20:03	966234	1	100321	GXM3
248408008	03/21/10 20:33	966234	1	100321	GXM3
248408009	03/21/10 21:03	966234	1	100321	GXM3
248408010	03/21/10 21:33	966234	1	100321	GXM3
248408011	03/21/10 22:03	966234	1	100321	GXM3
248408012	03/21/10 22:32	966234	1	100321	GXM3
248408013	03/21/10 23:02	966234	1	100321	GXM3
248408014	03/21/10 23:32	966234	1	100321	GXM3

15 WIC100321-02ICV

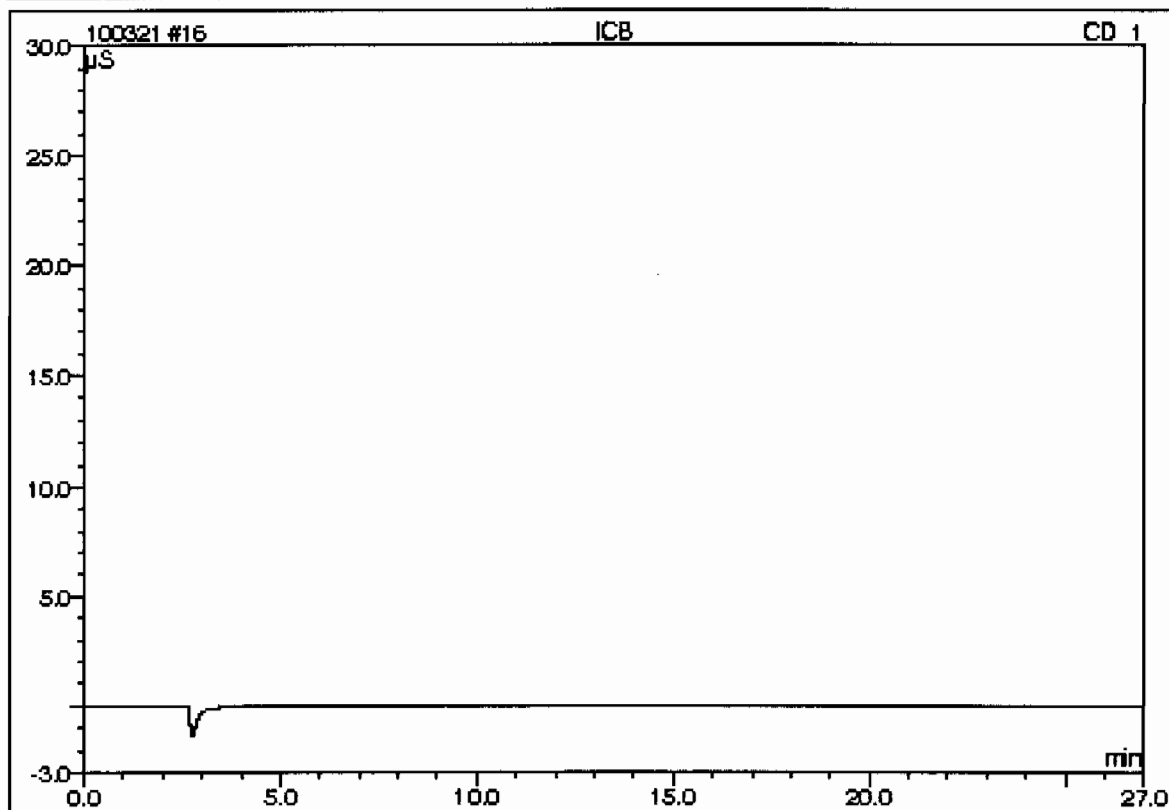
Sample Name:	WIC100321-02ICV	Injection Volume:	50.0
Vial Number:	2	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight	1.0000
Quantit. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/21/2010 12:34	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC E086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.31	Fluoride	n.a.	5.0263		2.49274	12.87
2	7.33	Chloride	n.a.	9.4233		3.38738	17.49
3	9.40	Nitrite-N	n.a.	4.7880		3.48495	17.99
4	10.88	Chlorate	n.a.	2.4615		0.29528	1.52
5	11.81	Bromide	n.a.	2.4732		0.31651	1.63
6	13.85	Nitrate-N	n.a.	4.7865		3.99733	20.64
7	19.55	O-Phosphate-P	n.a.	2.3248		0.61226	3.16
8	21.65	Sulfate	n.a.	19.4285		4.78175	24.69
Total:				50.7122	0.000	19.368	100.00

16 ICB

Sample Name:	ICB	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:	3/21/2010 13:04	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



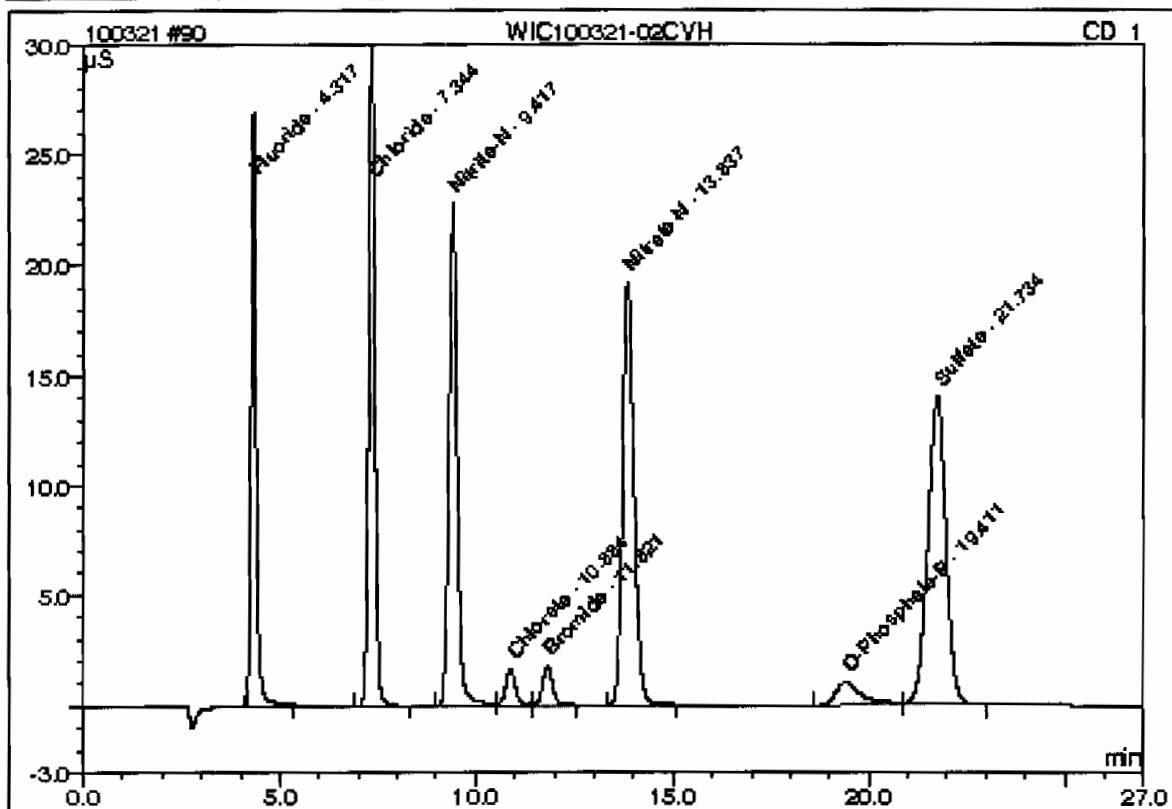
No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	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

This is runlog for Sequence 100321.seq for IC7

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
1202073475	03/23/10 00:27	966200	1	100321	GXM3
1202073477	03/23/10 00:57	966200	1	100321	GXM3
1202073479	03/23/10 01:27	966200	1	100321	GXM3
CVH	03/23/10 01:57		1	100321	GXM3
CCB	03/23/10 02:27		1	100321	GXM3
1202075368	03/23/10 02:57	967003	1	100321	GXM3
1202075372	03/23/10 03:27	967003	1	100321	GXM3
248247001	03/23/10 03:57	967003	1	100321	GXM3
1202075369	03/23/10 04:27	967003	1	100321	GXM3
1202075370	03/23/10 04:56	967003	1	100321	GXM3
1202075371	03/23/10 05:26	967003	1	100321	GXM3
248247002	03/23/10 05:56	967003	1	100321	GXM3
248247003	03/23/10 06:26	967003	1	100321	GXM3
248247004	03/23/10 06:56	967003	1	100321	GXM3
248247005	03/23/10 07:26	967003	1	100321	GXM3
CCV	03/23/10 08:18		1	100321	GXM3
CCB	03/23/10 08:47		1	100321	GXM3
1202073656	03/23/10 09:17	966269	1	100321	GXM3
248247006	03/23/10 09:47	967003	1	100321	GXM3
248247007	03/23/10 10:17	967003	1	100321	GXM3
248247008	03/23/10 10:47	967003	1	100321	GXM3
CVH	03/23/10 11:17		1	100321	GXM3
CCB	03/23/10 11:46		1	100321	GXM3

90 WIC100321-02CVH

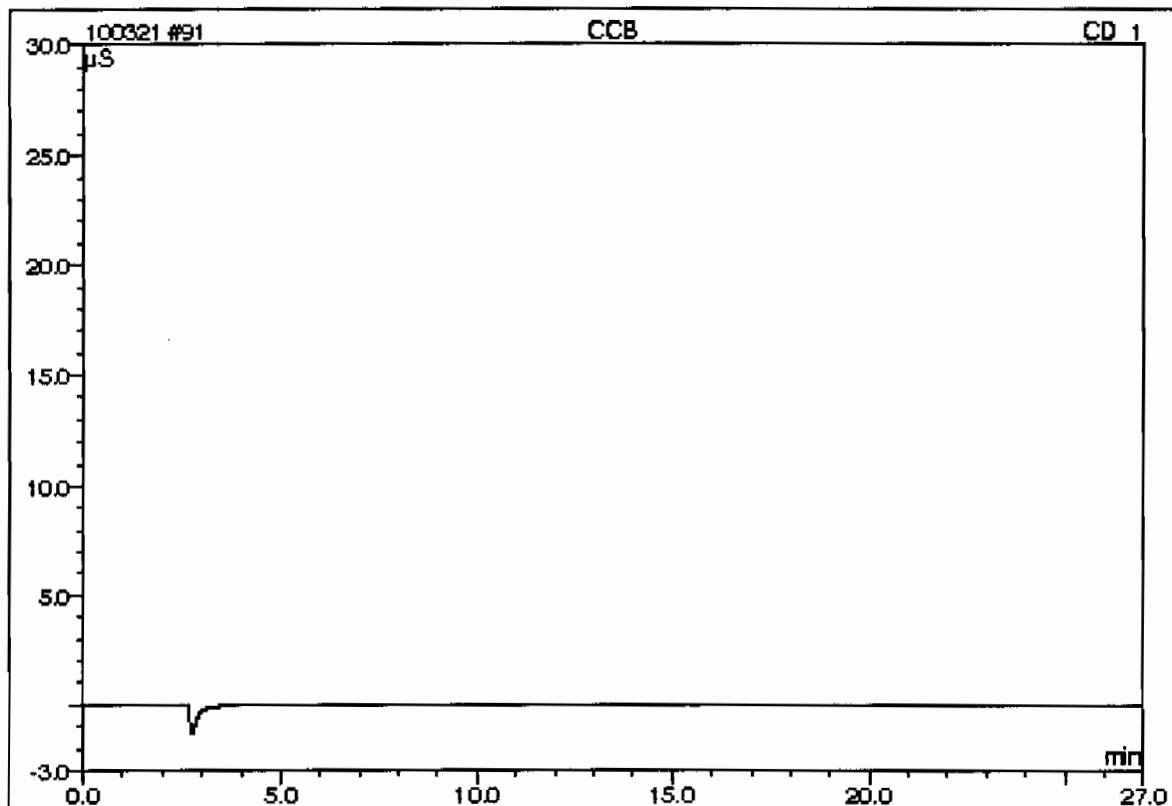
Sample Name:	WIC100321-02CVH	Injection Volume:	50.0
Vial Number:	27	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 1:57	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;0056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.32	Fluoride	n.a.	7.7790		3.87321	12.66
2	7.34	Chloride	n.a.	15.1459		5.47937	17.91
3	9.42	Nitrite-N	n.a.	7.6078		5.55686	18.16
4	10.88	Chlorate	n.a.	3.8863		0.46733	1.53
5	11.82	Bromide	n.a.	3.8371		0.49242	1.61
6	13.84	Nitrate-N	n.a.	7.5926		6.38767	20.87
7	19.41	O-Phosphate-P	n.a.	3.0164		0.79488	2.60
8	21.73	Sulfate	n.a.	30.5034		7.55070	24.67
Total:				79.3685	0.000	30.602	100.00

91 CCB

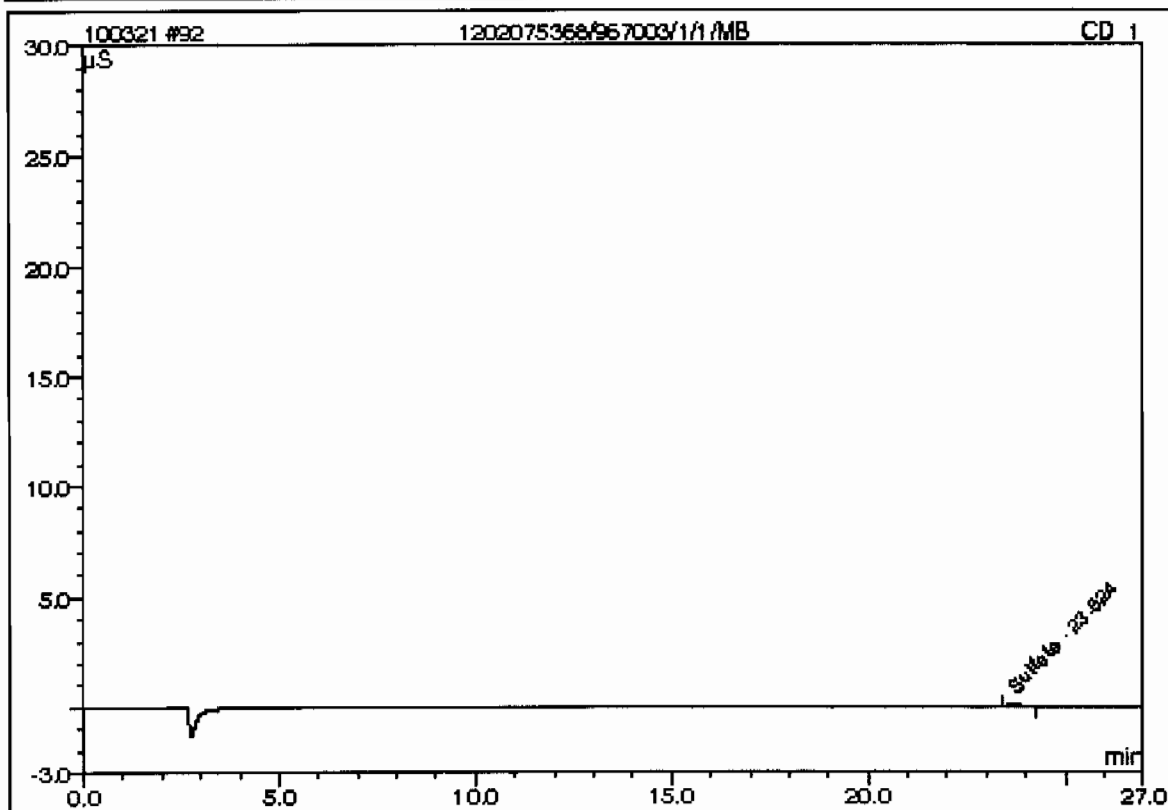
Sample Name:	CCB	Injection Volume:	50.0
Vial Number:	28	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 2:27	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



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.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

92 1202075368/967003/1/1/MB

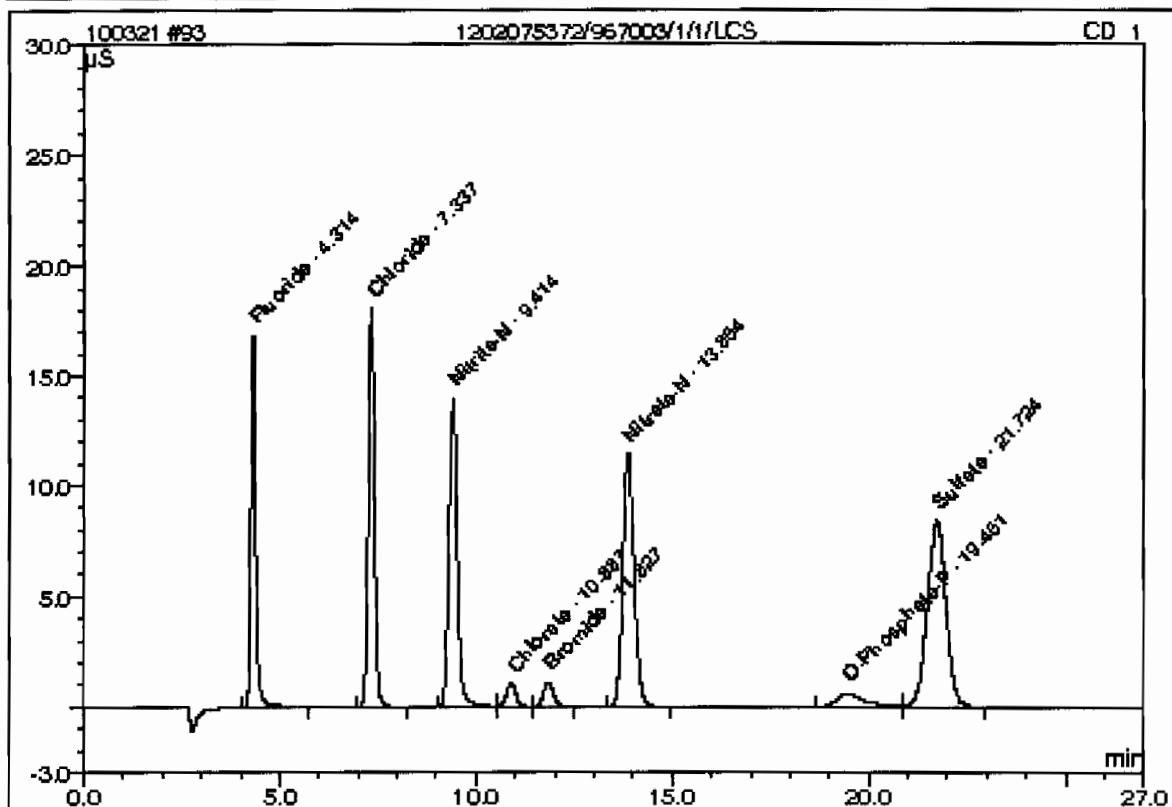
Sample Name:	1202075368/967003/1/1/MB	Injection Volume:	50.0
Vial Number:	20	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100317.an	Sample Amount:	1.0000
Recording Time:	3/23/2010 2:57	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.
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	23.62	Sulfate	n.a.	0.4034		0.02510	100.00
Total:				0.4034	0.000	0.025	100.00

93 1202075372/967003/1/1/LCS

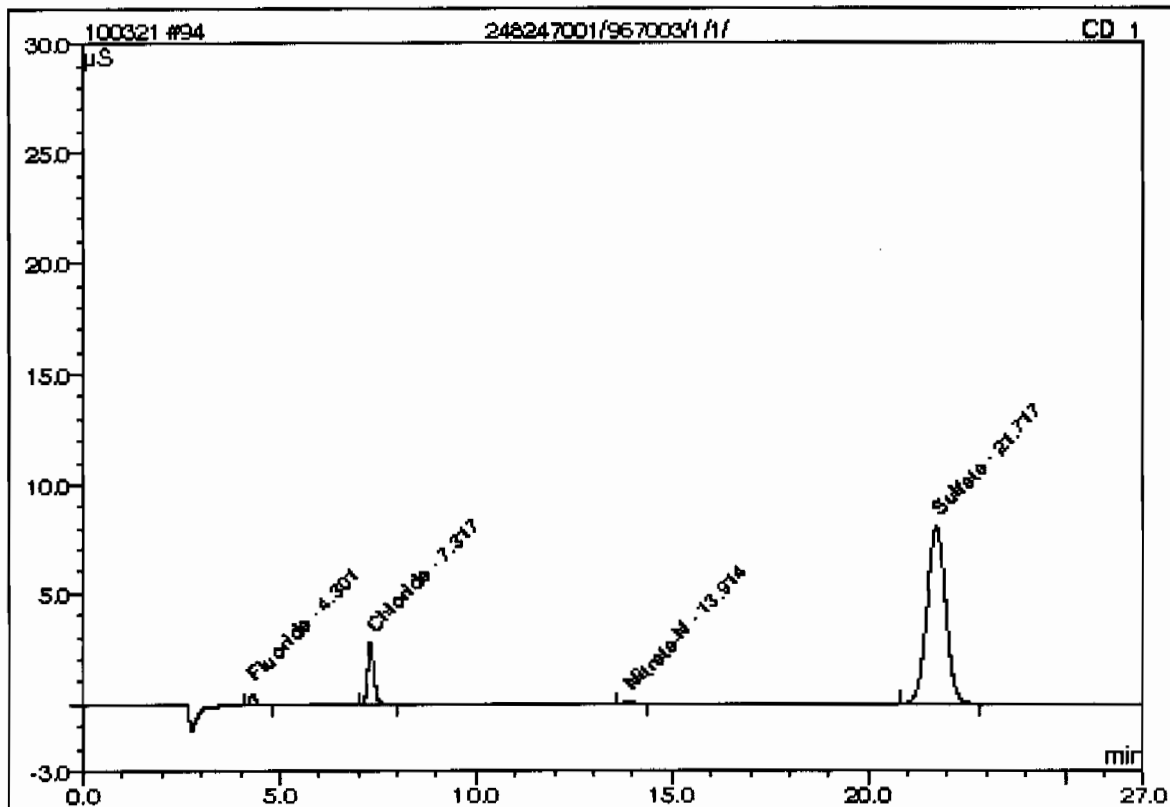
Sample Name:	1202075372/967003/1/1/LCS	Injection Volume:	50.0
Vial Number:	30	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 3:27	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	4.8612		2.40991	12.89
2	7.34	Chloride	n.a.	9.0894		3.26532	17.47
3	9.41	Nitrite-N	n.a.	4.7009		3.42093	18.30
4	10.89	Chlorate	n.a.	2.5458		0.30545	1.63
5	11.83	Bromide	n.a.	2.5383		0.32490	1.74
6	13.86	Nitrate-N	n.a.	4.5886		3.82880	20.48
7	19.45	O-Phosphate-P	n.a.	2.0485		0.53930	2.89
8	21.72	Sulfate	n.a.	18.6912		4.59742	24.60
Total:				49.0639	0.000	18.692	100.00

94 248247001/967003/1/1/

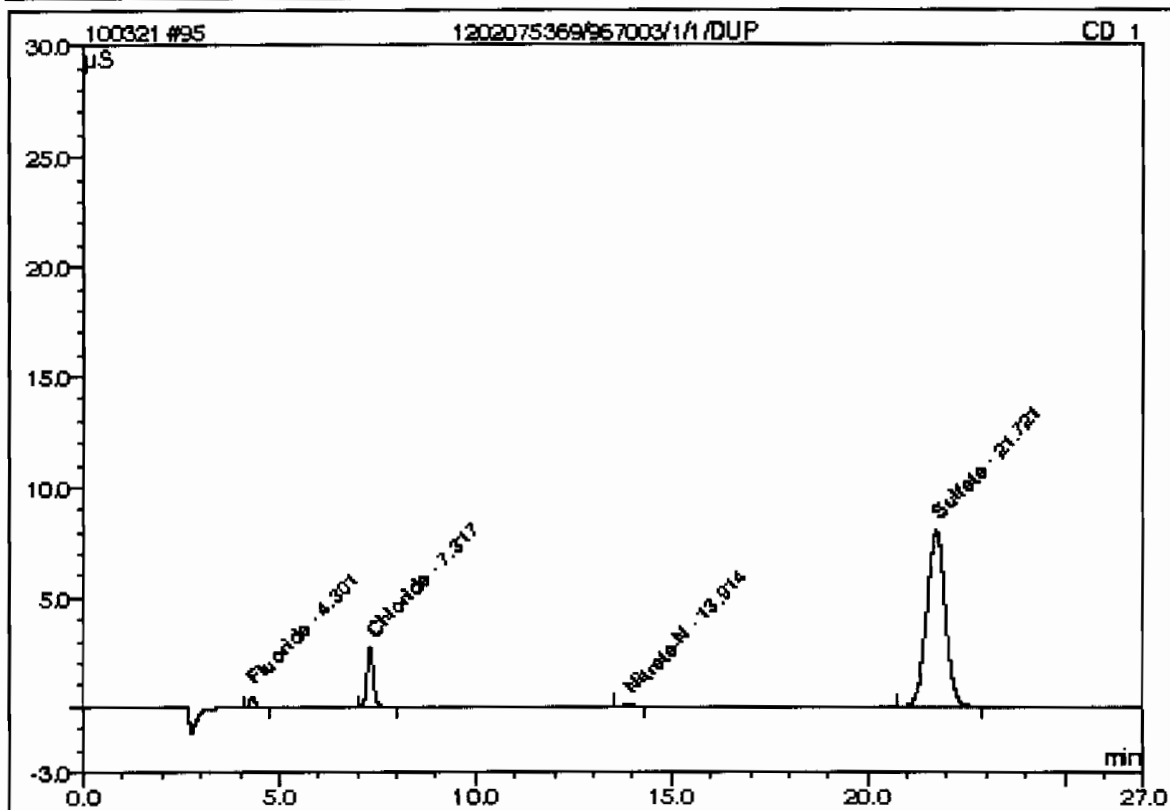
Sample Name:	248247001/967003/1/1/	Injection Volume:	50.0
Vial Number:	31	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 3:57	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC E086; 300; 8056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.30	Fluoride	n.a.	0.2080		0.07637	1.54
2	7.32	Chloride	n.a.	1.5344		0.50353	10.16
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	13.91	Nitrate-N	n.a.	0.1145		0.01751	0.35
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.72	Sulfate	n.a.	17.7402		4.35965	87.95
Total:				19.5972	0.000	4.957	100.00

95 1202075369/967003/1/1/DUP

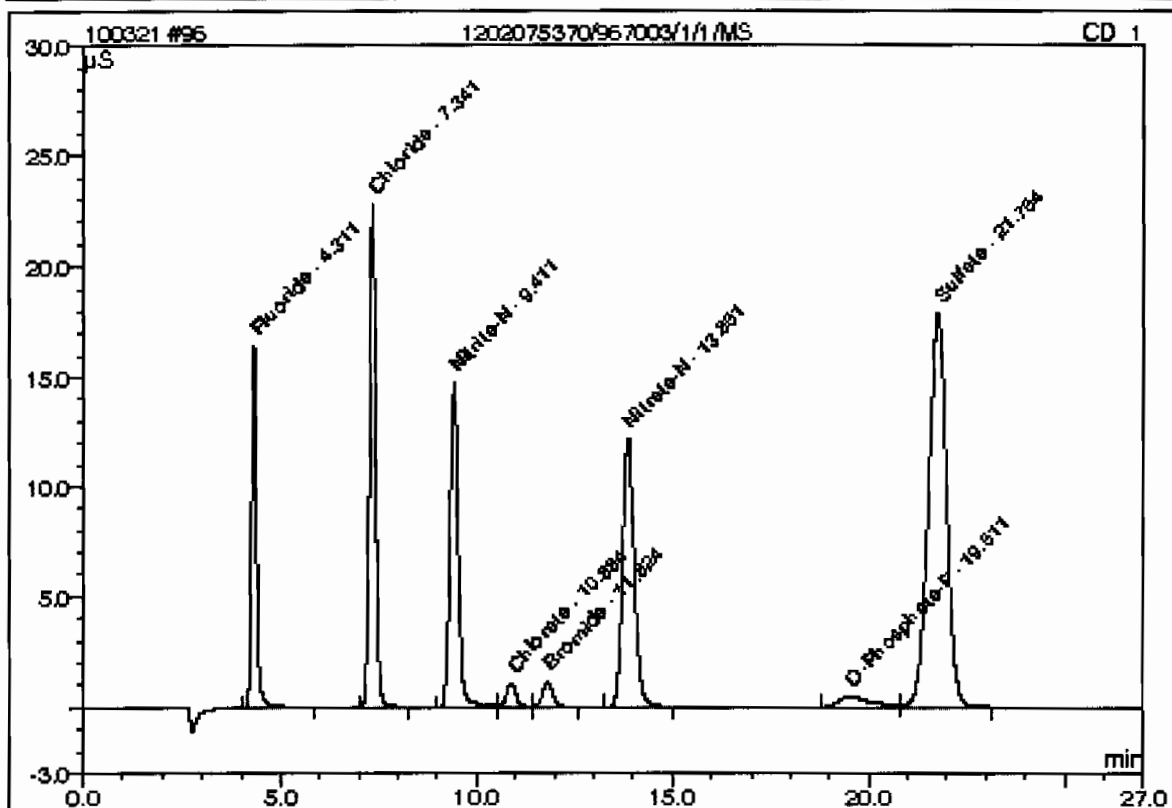
Sample Name:	1202075369/967003/1/1/DUP	Injection Volume:	50.0
Vial Number:	32	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 4:27	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	0.2048		0.07474	1.51
2	7.32	Chloride	n.a.	1.5377		0.50473	10.17
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	13.91	Nitrate-N	n.a.	0.1145		0.01755	0.35
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.72	Sulfate	n.a.	17.7675		4.36648	87.97
Total:				19.6246	0.000	4.964	100.00

96 1202075370/967003/1/1/MS

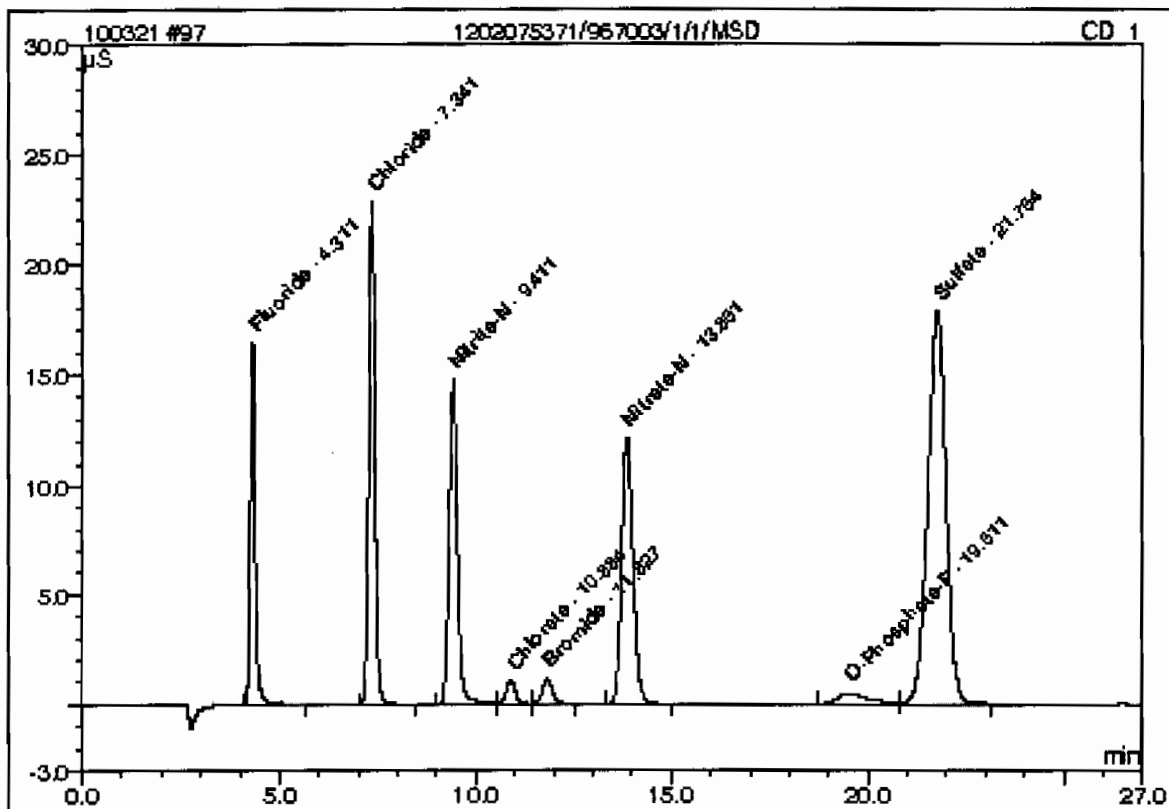
Sample Name:	1202075370/967003/1/1/MS	Injection Volume:	50.0
Vial Number:	33	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 4:56	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	4.7831		2.37074	9.56
2	7.34	Chloride	n.a.	11.3865		4.10506	16.55
3	9.41	Nitrate-N	n.a.	4.9409		3.59731	14.50
4	10.88	Chlorate	n.a.	2.5583		0.30696	1.24
5	11.82	Bromide	n.a.	2.5657		0.32844	1.32
6	13.86	Nitrate-N	n.a.	4.9232		4.11380	16.59
7	19.51	O-Phosphate-P	n.a.	1.6411		0.43169	1.74
8	21.75	Sulfate	n.a.	38.4929		9.54822	38.50
Total:				71.2917	0.000	24.802	100.00

97 1202075371/967003/1/1/MSD

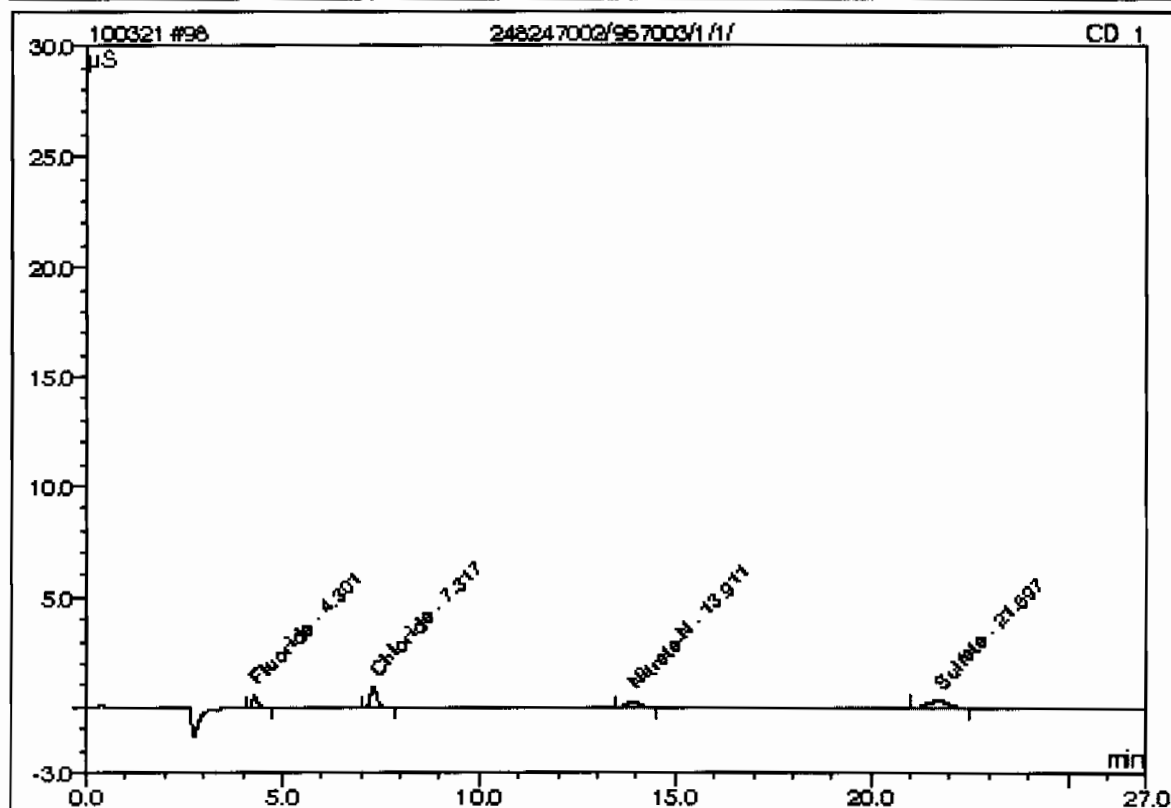
Sample Name:	1202075371/967003/1/1/MSD	Injection Volume:	50.0
Vial Number:	34	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 5:26	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	4.7676		2.36298	9.53
2	7.34	Chloride	n.a.	11.4004		4.11015	16.58
3	9.41	Nitrite-N	n.a.	4.9463		3.60124	14.53
4	10.88	Chlorate	n.a.	2.6024		0.31230	1.26
5	11.83	Bromide	n.a.	2.5776		0.32996	1.33
6	13.86	Nitrate-N	n.a.	4.8929		4.08801	16.49
7	19.51	O-Phosphate-P	n.a.	1.6664		0.43837	1.77
8	21.75	Sulfate	n.a.	38.4912		9.54781	38.51
Total:				71.3448	0.000	24.791	100.00

98 248247002/967003/1/1/

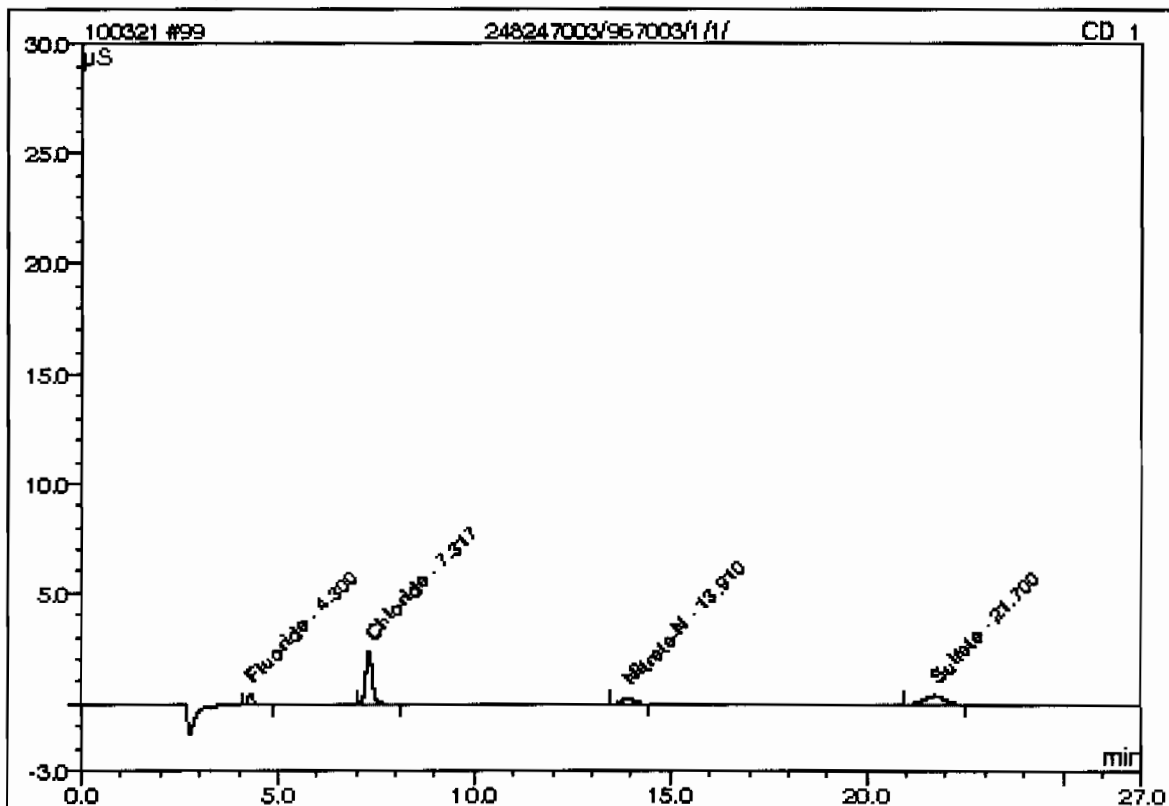
Sample Name:	248247002/967003/1/1/	Injection Volume:	50.0
Vial Number:	35	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 5:56	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;0056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.30	Fluoride	n.a.	0.2126		0.07863	14.78
2	7.32	Chloride	n.a.	0.6432		0.17772	33.40
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	13.91	Nitrate-N	n.a.	0.2041		0.09369	17.64
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.70	Sulfate	n.a.	1.0305		0.18188	34.18
Total:				2.0903	0.000	0.532	100.00

99 248247003/967003/1/1/

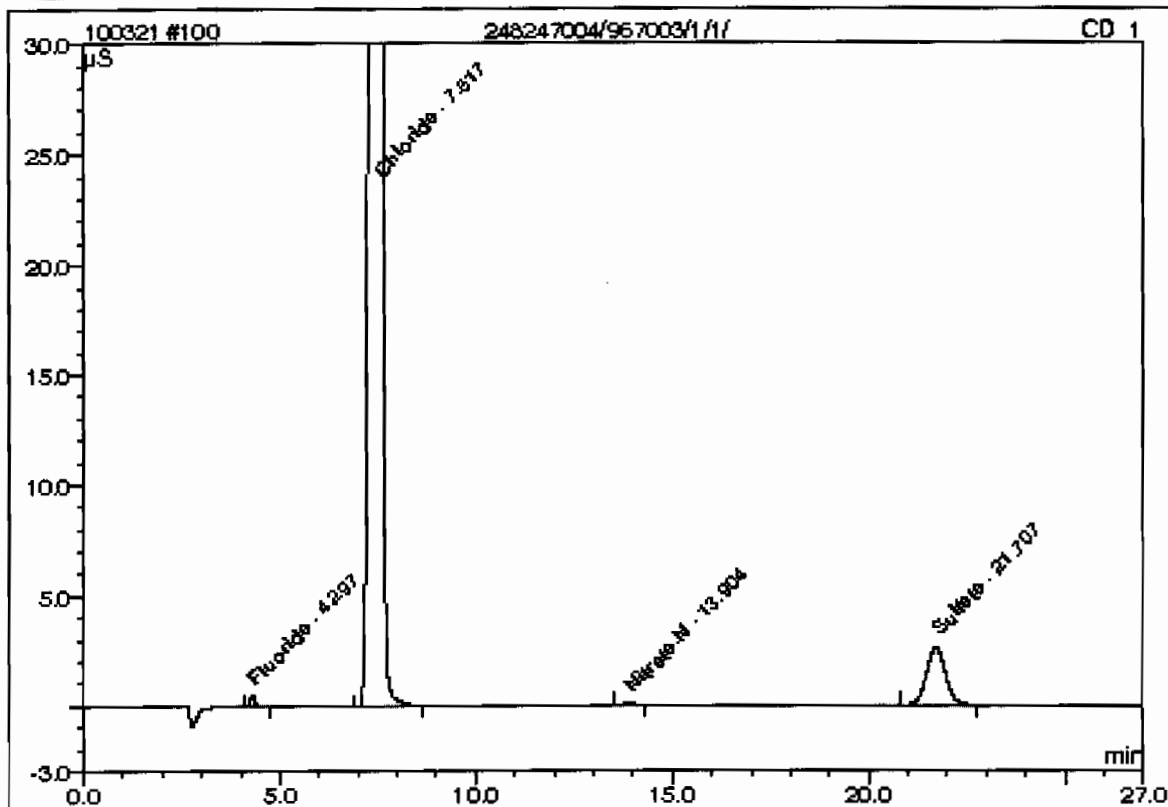
Sample Name:	248247003/967003/1/1/	Injection Volume:	50.0
Vial Number:	36	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 6:26	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.30	Fluoride	n.a.	0.1952		0.06994	8.46
2	7.32	Chloride	n.a.	1.3893		0.45049	54.46
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	13.91	Nitrate-N	n.a.	0.2007		0.09094	10.99
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.70	Sulfate	n.a.	1.1660		0.21576	26.09
Total:				2.9512	0.000	0.827	100.00

100 248247004/967003/1/1/

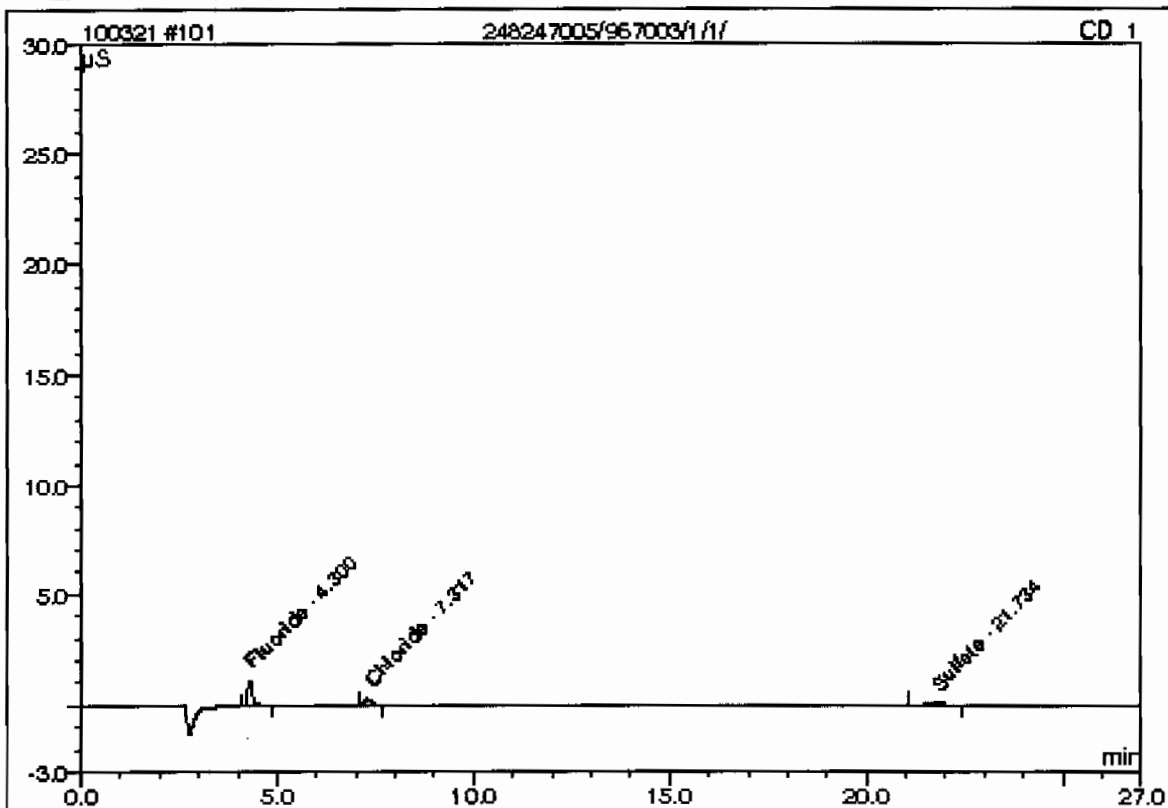
Sample Name:	248247004/967003/1/1/	Injection Volume:	50.0
Vial Number:	37	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 6:56	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.30	Fluoride	n.a.	0.1885		0.06656	0.14
2	7.52	Chloride	n.a.	129.8578		47.41349	96.85
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	13.90	Nitrate-N	n.a.	0.1122		0.01560	0.03
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.71	Sulfate	n.a.	6.1372		1.45665	2.98
Total:				136.2956	0.000	48.954	100.00

101 248247005/967003/1/1/

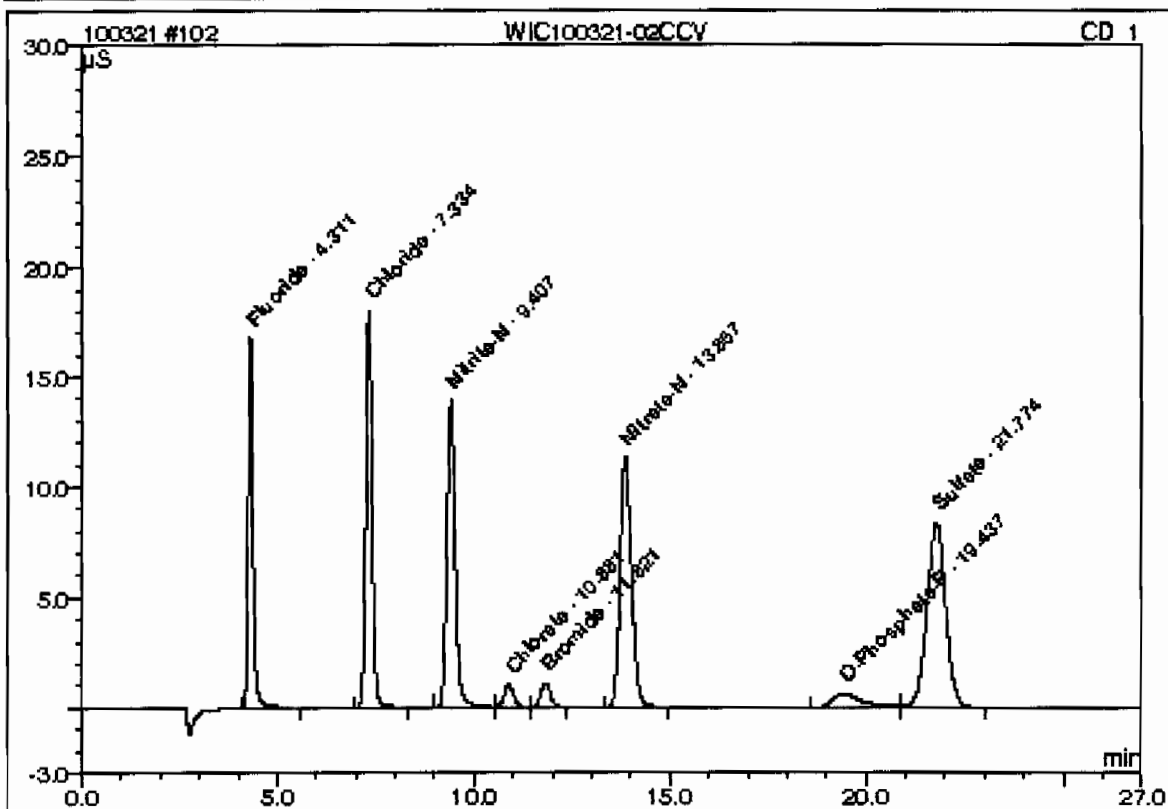
Sample Name:	248247005/967003/1/1/	Injection Volume:	50.0
Vial Number:	38	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317.an	Sample Amount:	1.0000
Recording Time:	3/23/2010 7:26	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	0.3832		0.16422	66.85
2	7.32	Chloride	n.a.	0.2973		0.05127	20.87
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.
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.
3	21.73	Sulfate	n.a.	0.4237		0.03018	12.28
Total:				1.1042	0.000	0.246	100.00

102 WIC100321-02CCV

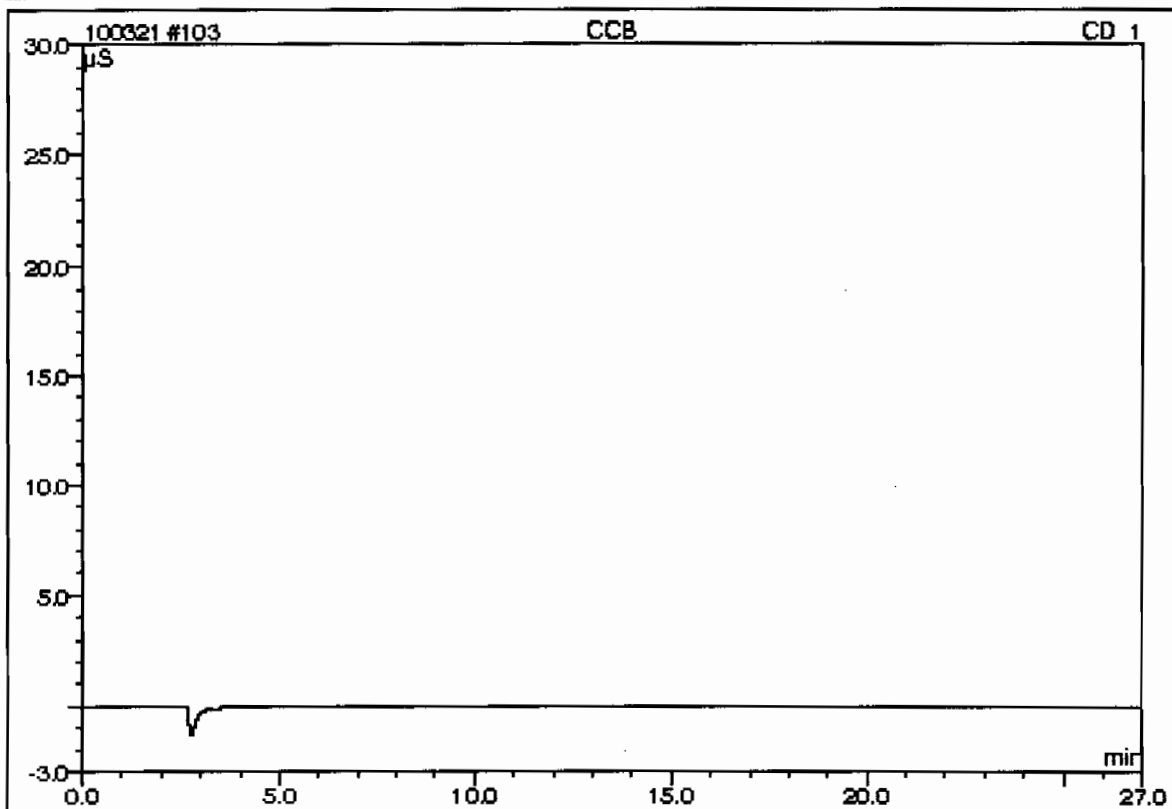
Sample Name:	WIC100321-02CCV	Injection Volume:	50.0
Vial Number:	39	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 8:18	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; 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.	4.8360		2.39730	12.87
2	7.33	Chloride	n.a.	9.0870		3.26444	17.53
3	9.41	Nitrite-N	n.a.	4.6814		3.40659	18.29
4	10.88	Chlorate	n.a.	2.4470		0.29352	1.58
5	11.82	Bromide	n.a.	2.4689		0.31595	1.70
6	13.88	Nitrate-N	n.a.	4.5867		3.82713	20.55
7	19.44	O-Phosphate-P	n.a.	1.9955		0.52530	2.82
8	21.77	Sulfate	n.a.	18.6702		4.59215	24.66
Total:				48.7726	0.000	18.622	100.00

103 CCB

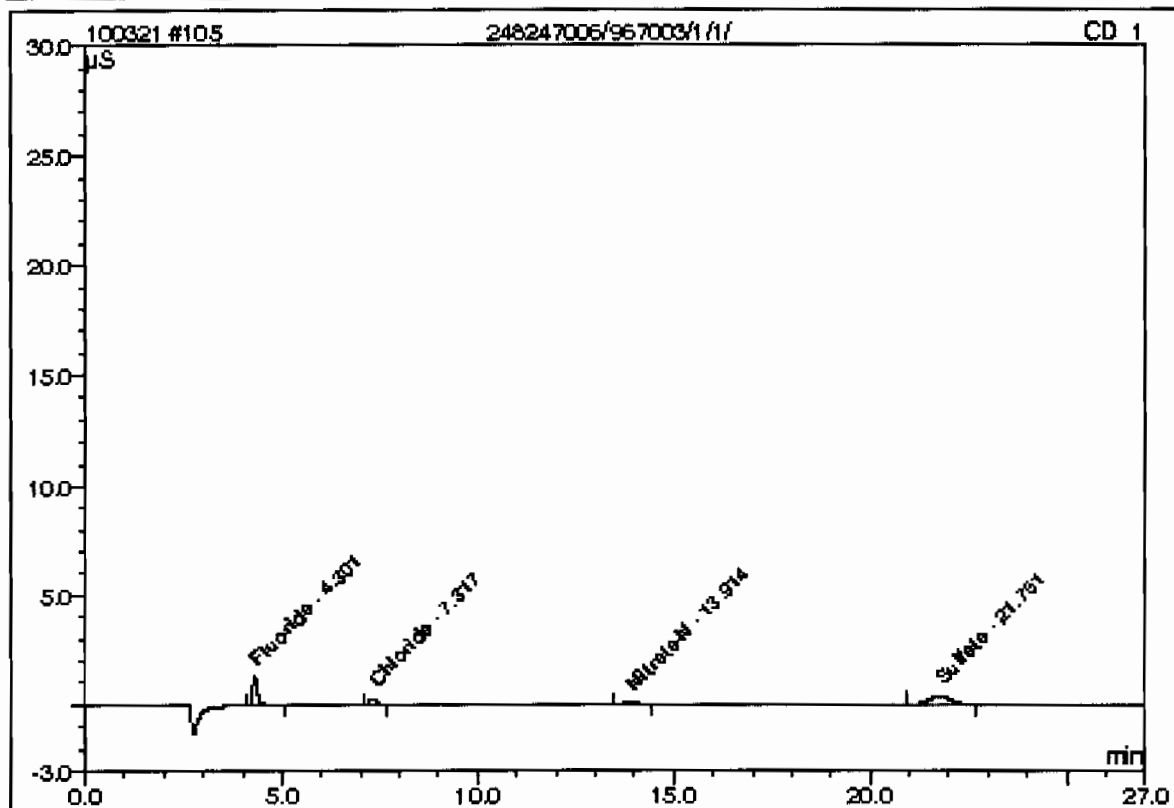
Sample Name:	CCB	Injection Volume:	50.0
Vial Number:	40	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 8:47	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



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.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

105 248247006/967003/1/1/

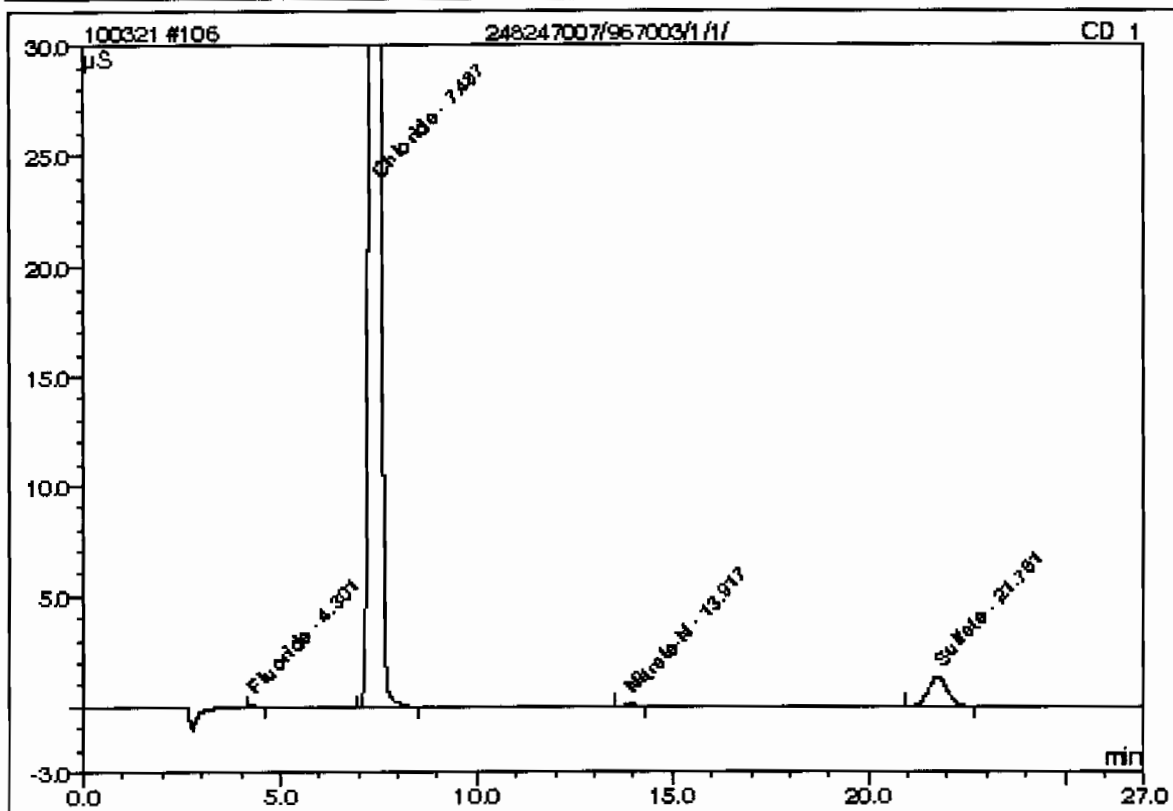
Sample Name:	248247006/967003/1/1/	Injection Volume:	50.0
Vial Number:	41	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 9:47	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; 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.	0.4390		0.19221	38.57
2	7.32	Chloride	n.a.	0.3016		0.05284	10.61
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	13.91	Nitrate-N	n.a.	0.1329		0.03322	6.67
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.75	Sulfate	n.a.	1.1830		0.22000	44.15
Total:				2.0564	0.000	0.498	100.00

106 248247007/967003/1/1/

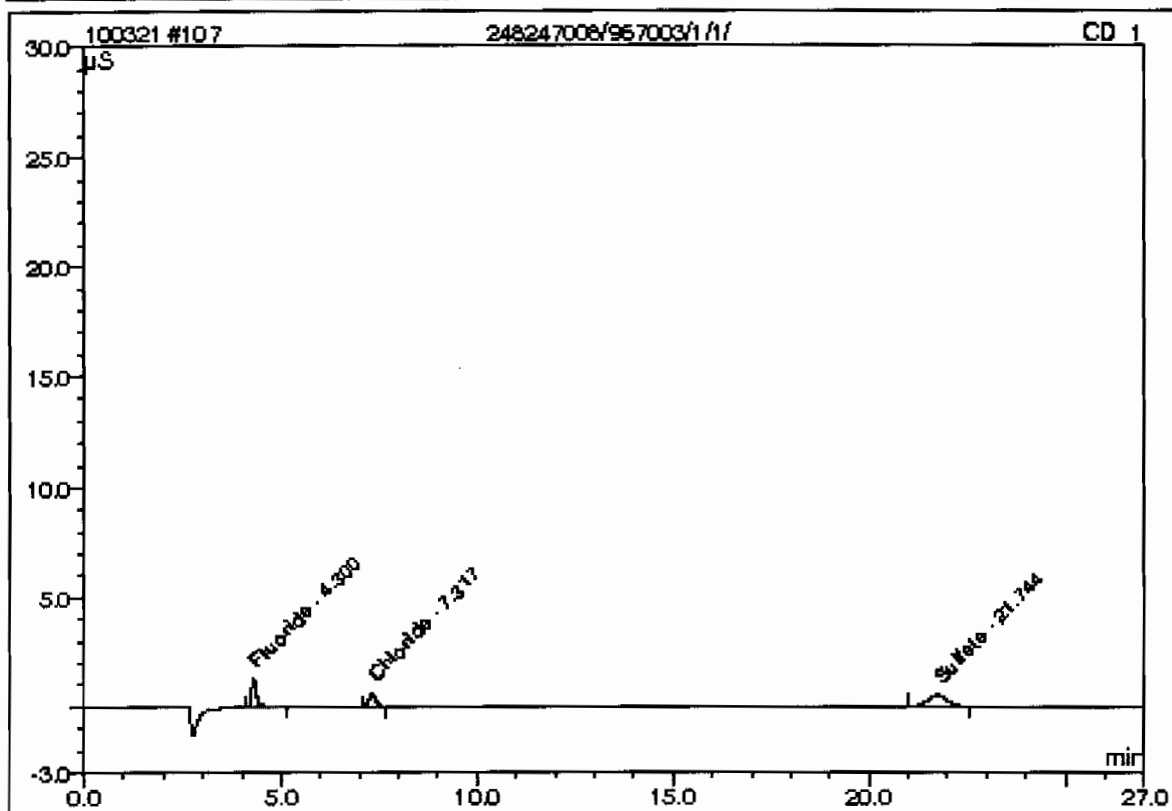
Sample Name:	248247007/967003/1/1/	Injection Volume:	50.0
Vial Number:	42	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 10:17	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	0.1000		0.02221	0.06
2	7.49	Chloride	n.a.	95.5800		34.88288	97.81
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	13.92	Nitrate-N	n.a.	0.1154		0.01832	0.05
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.75	Sulfate	n.a.	3.2596		0.73921	2.07
Total:				99.0550	0.000	35.663	100.00

107 248247008/967003/1/1/

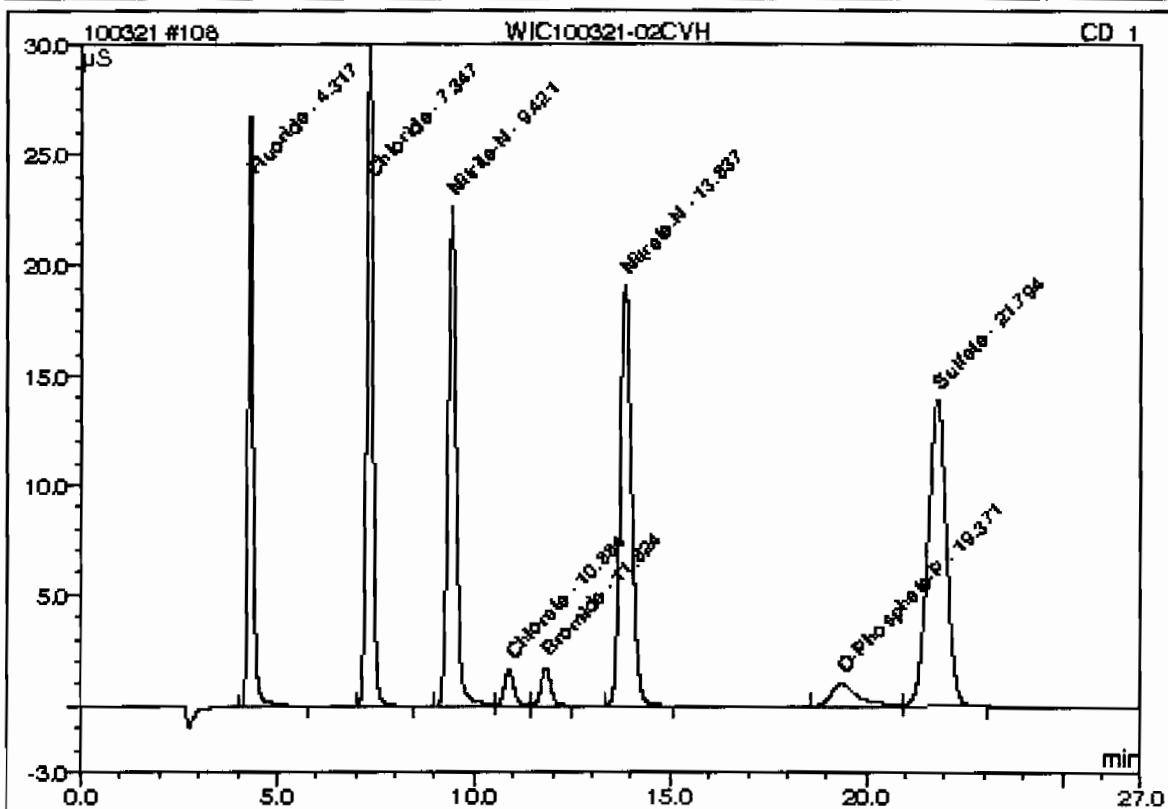
Sample Name:	248247008/967003/1/1/	Injection Volume:	50.0
Vial Number:	43	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 10:47	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	0.4363		0.19086	32.20
2	7.32	Chloride	n.a.	0.4746		0.11612	19.59
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.
3	21.74	Sulfate	n.a.	1.4458		0.28573	48.21
Total:				2.3568	0.000	0.593	100.00

108 WIC100321-02CVH

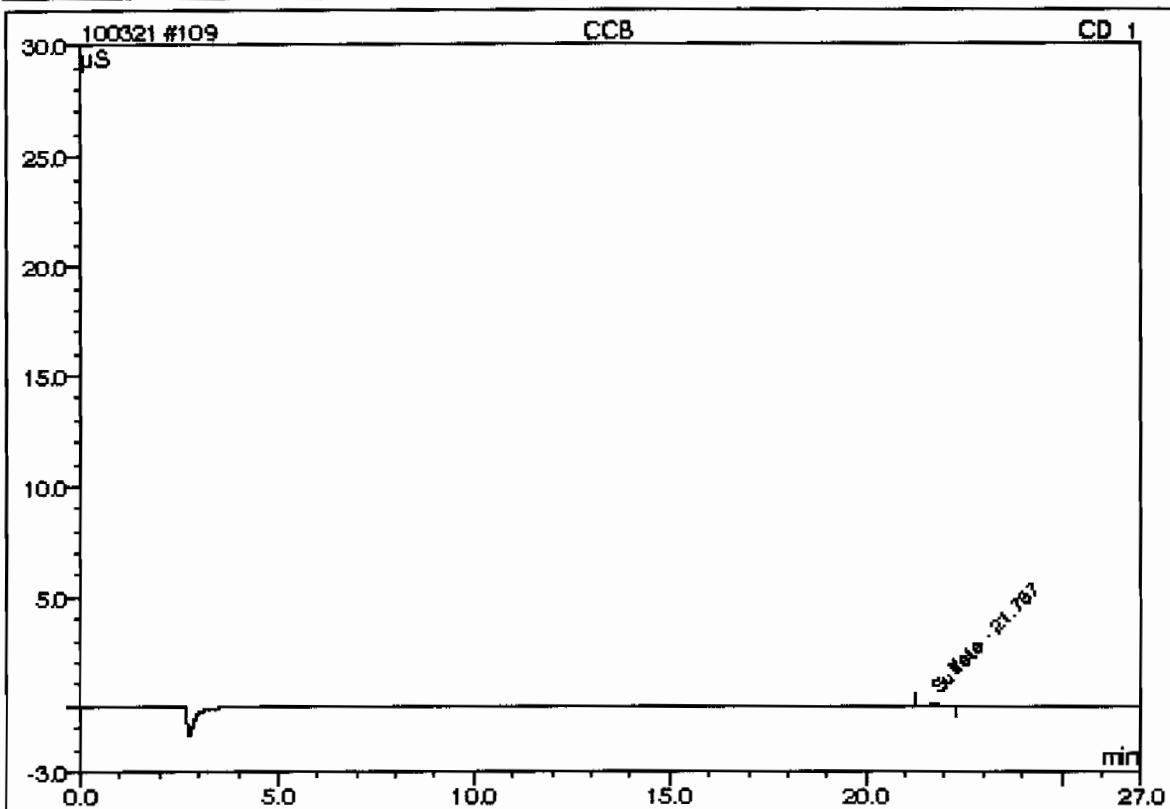
Sample Name:	WIC100321-02CVH	Injection Volume:	50.0
Vial Number:	44	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 11:17	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; 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	n.a.	7.8232		3.89536	12.73
2	7.35	Chloride	n.a.	15.1452		5.47908	17.90
3	9.42	Nitrite-N	n.a.	7.6047		5.55462	18.15
4	10.88	Chlorate	n.a.	3.8871		0.46743	1.53
5	11.82	Bromide	n.a.	3.8282		0.49127	1.61
6	13.84	Nitrate-N	n.a.	7.5857		6.38181	20.85
7	19.37	O-Phosphate-P	n.a.	3.0540		0.80483	2.63
8	21.79	Sulfate	n.a.	30.4200		7.52983	24.60
Total:				79.3480	0.000	30.604	100.00

109 CCB

Sample Name:	CCB	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:	3/23/2010 11:46	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCBD86;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	21.76	Sulfate	n.a.	0.3672		0.01604	100.00
Total:				0.3672	0.000	0.016	100.00

pH

pH / Corrosivity LogBook

Analyst: TXT1
 Batch: 959970
 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 1202059015 IMM100209-01 LCS BUFFER SOLUTION

Sample id	Parent Sample Id	Matrix	Start Time	Stop Time	Run Date	Parname	Initial W(g)	Final Vol(mL)	Ph	Temp	Nc(mg/L)	Recovery(%)	Rpd(%)
1202059015 LCS		Soil	15:00	15:05	02-MAR-10 15:42	pH	20	20	6.98	20.6°C	7	99.714	
1202059015 LCS		Soil	15:00	15:05	02-MAR-10 15:42	pH 2	20	20	6.97	20.7°C	7	99.571	
248198001		Soil	15:00	15:05	02-MAR-10 15:45	pH	20	20	7.45	21.1°C			
248198001		Soil	15:00	15:05	02-MAR-10 15:45	pH 2	20	20	7.48	21.6°C			
1202059013 DUP	248198001	Soil	15:00	15:05	02-MAR-10 15:47	pH	20	20	7.5	22.0°C			.669
1202059013 DUP	248198001	Soil	15:00	15:05	02-MAR-10 15:47	pH 2	20	20	7.5	22.0°C			.267
248198002		Soil	15:00	15:05	02-MAR-10 15:48	pH	20	20	7.21	21.9°C			
248198002		Soil	15:00	15:05	02-MAR-10 15:48	pH 2	20	20	7.21	21.9°C			
248198003		Soil	15:00	15:05	02-MAR-10 15:51	pH	20	20	6.57	21.6°C			
248198003		Soil	15:00	15:05	02-MAR-10 15:51	pH 2	20	20	6.56	21.7°C			
CCV		Soil	15:00	15:05	02-MAR-10 15:52	pH	20	20	7.03	21.1°C	7	100.429	
CCV		Soil	15:00	15:05	02-MAR-10 15:52	pH 2	20	20	7.03	21.1°C	7	100.429	
248198004		Soil	15:00	15:05	02-MAR-10 15:55	pH	20	20	7.18	21.9°C			
248198004		Soil	15:00	15:05	02-MAR-10 15:55	pH 2	20	20	7.19	21.9°C			
248198005		Soil	15:00	15:05	02-MAR-10 15:57	pH	20	20	7.41	21.9°C			
248198005		Soil	15:00	15:05	02-MAR-10 15:57	pH 2	20	20	7.41	22.0°C			
248198006		Soil	15:00	15:05	02-MAR-10 15:59	pH	20	20	6.23	22.0°C			
248198006		Soil	15:00	15:05	02-MAR-10 15:59	pH 2	20	20	6.24	22.0°C			
248198007		Soil	15:00	15:05	02-MAR-10 16:00	pH	20	20	8.03	21.9°C			
248198007		Soil	15:00	15:05	02-MAR-10 16:00	pH 2	20	20	8.04	21.9°C			
248198008		Soil	15:00	15:05	02-MAR-10 16:02	pH	20	20	7.23	21.9°C			
248198008		Soil	15:00	15:05	02-MAR-10 16:02	pH 2	20	20	7.24	22.0°C			
CCV		Soil	15:00	15:05	02-MAR-10 16:05	pH	20	20	7.04	21.0°C	7	100.571	
CCV		Soil	15:00	15:05	02-MAR-10 16:05	pH 2	20	20	7.04	21.0°C	7	100.571	
248198009		Soil	15:00	15:05	02-MAR-10 16:08	pH	20	20	6.41	21.8°C			
248198009		Soil	15:00	15:05	02-MAR-10 16:08	pH 2	20	20	6.43	21.8°C			
248198010		Soil	15:00	15:05	02-MAR-10 16:10	pH	20	20	7.29	21.9°C			
248198010		Soil	15:00	15:05	02-MAR-10 16:10	pH 2	20	20	7.3	21.9°C			

pH / Corrosivity LogBook

Analyst: TXTI
 Batch: 959970
 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 1202059015 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(%)
248198011		Soil	15:00	15:05	02-MAR-10 16:11	pH	20	20	7.07	21.7°C			
248198011		Soil	15:00	15:05	02-MAR-10 16:11	pH 2	20	20	7.08	21.8°C			
248198012		Soil	15:00	15:05	02-MAR-10 16:13	pH	20	20	6.64	21.8°C			
248198012		Soil	15:00	15:05	02-MAR-10 16:13	pH 2	20	20	6.65	21.9°C			
248247001		Soil	15:00	15:05	02-MAR-10 16:14	pH	20	20	8	21.9°C			
248247001		Soil	15:00	15:05	02-MAR-10 16:14	pH 2	20	20	8	21.9°C			
CCV			15:00	15:05	02-MAR-10 16:16	pH	20	20	7.04	20.9°C	7	100.571	
CCV			15:00	15:05	02-MAR-10 16:16	pH 2	20	20	7.04	20.9°C	7	100.571	
1202059014 DUP	248247001	Soil	15:00	15:05	02-MAR-10 16:18	pH	20	20	7.96	21.6°C			.501
1202059014 DUP	248247001	Soil	15:00	15:05	02-MAR-10 16:18	pH 2	20	20	7.97	21.6°C			.376
248247002		Soil	15:00	15:05	02-MAR-10 16:20	pH	20	20	6.01	21.5°C			
248247002		Soil	15:00	15:05	02-MAR-10 16:20	pH 2	20	20	6.01	21.5°C			
248247003		Soil	15:00	15:05	02-MAR-10 16:22	pH	20	20	7.78	21.4°C			
248247003		Soil	15:00	15:05	02-MAR-10 16:22	pH 2	20	20	7.79	21.4°C			
248247004		Soil	15:00	15:05	02-MAR-10 16:24	pH	20	20	7.38	21.4°C			
248247004		Soil	15:00	15:05	02-MAR-10 16:24	pH 2	20	20	7.38	21.4°C			
248247005		Soil	15:00	15:05	02-MAR-10 16:26	pH	20	20	7.6	21.2°C			
248247005		Soil	15:00	15:05	02-MAR-10 16:26	pH 2	20	20	7.6	21.2°C			
CCV			15:00	15:05	02-MAR-10 16:27	pH	20	20	7.04	20.5°C	7	100.571	
CCV			15:00	15:05	02-MAR-10 16:27	pH 2	20	20	7.04	20.5°C	7	100.571	
248247006		Soil	15:00	15:05	02-MAR-10 16:30	pH	20	20	7.65	20.8°C			
248247006		Soil	15:00	15:05	02-MAR-10 16:30	pH 2	20	20	7.68	20.9°C			
248247007		Soil	15:00	15:05	02-MAR-10 16:32	pH	20	20	7.35	20.8°C			
248247007		Soil	15:00	15:05	02-MAR-10 16:32	pH 2	20	20	7.35	20.8°C			
248247008		Soil	15:00	15:05	02-MAR-10 16:35	pH	20	20	7.9	20.6°C			
248247008		Soil	15:00	15:05	02-MAR-10 16:35	pH 2	20	20	7.9	20.6°C			
CCV			15:00	15:05	02-MAR-10 16:36	pH	20	20	7.04	20.2°C	7	100.571	
CCV			15:00	15:05	02-MAR-10 16:36	pH 2	20	20	7.04	20.2°C	7	100.571	

pH / Corrosivity LogBook

Calibration Information:

Run Date: 02-MAR-10 12:48
Instrument: PHX742
Analyst: LXA1

Comments:

Standard	Observed	Theoretical	C	%Recovery
12:48 IMM100302-PH1	4.01	4	SU 20.4	100.25
12:48 IMM100302-PH2	7.01	7	SU 20.4	100.14
12:48 UPH100302-PH3	10.01	10	SU 20.4	100.1
12:48 UPH100302-PH4	2.09	2	SU 20.4	104.5
12:48 UPH100302-PH5	11.95	12	SU 20.4	99.583
12:48 IMM100302-PH6	7.03	7	SU 20.4	100.43