

Thursday, February 25, 2010

REQUEST NUMBER: 10-2122

Page 1 of 4

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: 10-2122

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: 3/27/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:

PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
EPA300.0		1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7428	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	

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PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
EPA:300.0		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
		1	RE36-10-7529	W	2/23/2010	
		1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
EPA:353.2		1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
SW-846:6010B		1	RE36-10-7516	R	2/23/2010	
		1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
SW-846:6020		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7435	R	2/23/2010	

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PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:6020	SW-846:6850	1	RE36-10-7529	W	2/23/2010	
		1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
		1	RE36-10-7529	W	2/23/2010	
		1	RE36-10-7529	W	2/23/2010	
		1	RE36-10-7529	W	2/23/2010	
SW-846:7470A	SW-846:7471A	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
		1	RE36-10-7529	W	2/23/2010	
		1	RE36-10-7529	W	2/23/2010	
		1	RE36-10-7529	W	2/23/2010	
		1	RE36-10-7529	W	2/23/2010	

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PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:9012A						
1		1	RE36-10-7404	R	2/23/2010	
1		1	RE36-10-7405	R	2/23/2010	
1		1	RE36-10-7406	R	2/23/2010	
1		1	RE36-10-7425	R	2/23/2010	
1		1	RE36-10-7426	R	2/23/2010	
1		1	RE36-10-7429	R	2/23/2010	
1		1	RE36-10-7431	R	2/23/2010	
1		1	RE36-10-7432	R	2/23/2010	
1		1	RE36-10-7433	R	2/23/2010	
1		1	RE36-10-7434	R	2/23/2010	
1		1	RE36-10-7516	R	2/23/2010	
SW-846:9045C						
1		1	RE36-10-7403	R	2/23/2010	
1		1	RE36-10-7404	R	2/23/2010	
1		1	RE36-10-7405	R	2/23/2010	
1		1	RE36-10-7406	R	2/23/2010	
1		1	RE36-10-7425	R	2/23/2010	
1		1	RE36-10-7426	R	2/23/2010	
1		1	RE36-10-7429	R	2/23/2010	
1		1	RE36-10-7431	R	2/23/2010	
1		1	RE36-10-7432	R	2/23/2010	
1		1	RE36-10-7433	R	2/23/2010	
1		1	RE36-10-7434	R	2/23/2010	
1		1	RE36-10-7516	R	2/23/2010	

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LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2122

LOS ALAMOS

REQUEST NUMBER: 10-2122

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/27/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-7405	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7405	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7403	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7403	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7406	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7406	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7404	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7404	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7516	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7516	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7529	1	POLY	METALS+U-GEL	Nitric Acid	W
RE36-10-7529	1	POLY	NO3NO2	Sulfuric Acid (Hydrogen Sulfate)	W
RE36-10-7529	1	POLY	SW-846:6850	Ice	W
RE36-10-7529	1	POLY	TCN	Sodium Hydroxide	W
RE36-10-7426	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7426	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7432	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7432	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7431	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7431	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7434	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7434	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7425	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7425	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7429	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7429	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7433	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7433	1	POLY	Perchlorate+CN+N03+pH	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

[Signature]
 Printed Name Signature

2/25/10 1400

Printed Name

Signature

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

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

SAMPLE ID: RE36-10-7403

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:	QBT3		Allh
TIME COLLECTED (HH:MM)		1240		SUB-MEDIA:	TUFF.1		NA
PRS ID:	36-008	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610574			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	5		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	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown sandy silt, pine needles, twigs fragments, organic material

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-14

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 53 dpm
Beta/Gamma = 1466 dpm

PID ~~Ambient~~ = ppm 72m 2/23/10

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT) J. Roberson

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) TL McFarland	2/23/10	(Printed Name) Henry Sherwood	2/23/10
(Signature) Tracy 2	1645	(Signature) Henry Sherwood	1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

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

SAMPLE ID: RE36-10-7404

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1255		SUB-MEDIA:		TUFF 1	
PRS ID: 36-008		ok		SAMPLE TECH CODE:		HA	
LOCATION ID: 36-610574		↓		FIELD QC TYPE:		NA	
LOCATION TYPE: GENERIC		↓		FIELD PREP:		NA	
TOP DEPTH: 0		2.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH: 0		2.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX: B		S		EXCAVATED: YES/NO/NA		NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA		NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NMB D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+QS+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+ NO3+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown sandy silt, till fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

8 - 14

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 35 dpm
Beta/Gamma = 2160 dpm

PID ~~Ambient~~ ~~Reading~~ = ppm 734 2/23/10

COLLECTED BY (PRINT)

T. McFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) T. McFarland (Signature) T. McFarland	Date/Time 2/23/10 1645	RECEIVED BY (Printed Name) Sherrin Sherwood (Signature) Sherrin Sherwood	Date/Time 2/23/10 1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

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

SAMPLE ID: RE36-10-7405

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:		QBT1	
TIME COLLECTED(HH:MM)		1340		SUB-MEDIA:		TUFF1	
PRS ID: 36-008		ok		SAMPLE TECH CODE:		HA	
LOCATION ID: 36-610575		↓		FIELD QC TYPE:		NA	
LOCATION TYPE: GENERIC		↓		FIELD PREP:		NA	
TOP DEPTH: 0		0.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH: 0		0.5		SCREEN/PORF DESC:		NA	
FIELD MATRIX: B		S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		METALS+U-GEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+NO3+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Brown sandy silt, ash, roots, tuff fragments

FD: RE 36-10-7516

SAMPLE COMMENTS:

NA

LOCATION DESC: 8-11

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leftarrow 35 dpm
Beta/Gamma \leftarrow 165% dpmPID ~~Ambient Reading~~ = 77% 2/23/10 ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Jon Riberson

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) TLMcFarland	Date/Time 2/23/10 1645	RECEIVED BY (Printed Name) Sherrill Sherwood (Signature) Sherrill Sherwood	Date/Time 2/23/10 1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

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

SAMPLE ID: RE36-10-7406

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:	QBT3		Allh
TIME COLLECTED (HH:MM)		1400		SUB-MEDIA:	TUFF.1		NA
PRS ID:	36-008	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	36-610575			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	2.5		SCREEN/PORF DESC:			NA
FIELD MATRIX:	B	S		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	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-OEL	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 dry, sandy silt, tuff fragments

FR RE36-10-7529

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-11

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 76 dpm
Beta/Gamma \leq 3260 dpmPID ~~Ambient~~ = ppm

73m 2/23/10

COLLECTED BY (PRINT)

TLMCFarlane

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) TLMCFarlane (Signature) TLMCFarlane	Date/Time 2/23/10 1645	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/23/10 1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

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

SAMPLE ID: RE36-10-7425

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:	QBT2		Allh
TIME COLLECTED (HH:MM)		1150		SUB-MEDIA:	TUFF1		NA
PRS ID:	36-008	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610585			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	1.0		SCREEN/PORT DESC:			NA
FIELD MATRIX:	B	S		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:

Brownish black silt, some clay, roots, few tuff fragments

FTB: RE36-10-7540

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-7

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 29 dpm
Beta/Gamma = 2030 dpmPID Ambient 0.0
Reading 0.0 ppm

COLLECTED BY (PRINT)

JLMcFarland

REVIEWED BY (PRINT)

JonRoberson

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JLMcFarland	2/23/10	(Printed Name) Sheri Sherwood	2/23/10
(Signature) [Signature]	1645	(Signature) [Signature]	1645
	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

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

SAMPLE ID: RE36-10-7426

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:		QBT3	
TIME COLLECTED(HH:MM)		1315		SUB-MEDIA:		TUPE1	
PRS ID: 36-008		ok		SAMPLE TECH CODE: HA		NA	
LOCATION ID: 36-610585		↓		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: B		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+NMBD 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+NO3+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown sandy silt, roots, tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-7

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha < 17 dpm
Beta/Gamma < 2000 dpm

PID Ambient Reading = ppm

12m 2/23/10

COLLECTED BY (PRINT)

Th. McFarland

REVIEWED BY (PRINT) Jon Rebersol

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Th. McFarland	2/23/10	(Printed Name) Sheri Herwood	2/23/10
(Signature) [Signature]	1645	(Signature) [Signature]	1645
Date/Time	RECEIVED BY	Date/Time	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

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

SAMPLE ID: RE36-10-7429

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:		QRT2	
TIME COLLECTED(HH:MM)		1435		SUB-MEDIA:		TUFF 1	
PRS ID: 36-008		ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID: 36-610587		↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE: GENERIC		↓		FIELD PREP: NA		↓	
TOP DEPTH: 0		0.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH: 0		0.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX: B		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	CNTR	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 silty sand, slightly moist

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-22

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 41 dpm
Beta/Gamma = 1634 dpm

PID ~~Ambient Reading~~ = ppm

T34 2/23/10

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT) Jan Robertson

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) TLMcFarland	Date/Time 2/23/10 1645	RECEIVED BY (Printed Name) Sherry Sherwood (Signature) Sherry Sherwood	Date/Time 2/23/10 1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

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

SAMPLE ID: RE36-10-7431

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:	QBT3		A11h
TIME COLLECTED (HH:MM)		1505		SUB-MEDIA:	TUFF.1		NA
PRS ID:	36-008	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610588			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice		
1		AM241+GS+ISO PU+ISOL	1 LITER POLY	None		
1		H3	500 ML POLY	Ice		
1		METALS+U-GEL	125 ML POLY	Ice		
1		Perchlorate+CN+NO3+pH	500 ML POLY	Ice		
1		RADVANA+B+O	1 EA 8 IN RESEALABLE POLY BAG	None		

SAMPLE DESC:

Brown silty sand, pine needles, glass, wire

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-13

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 29 dpm
Beta/Gamma = 1697 dpm

PID ~~Ambient~~ ~~Reading~~ = ppm

73m 2/23/10

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

Jon Roberson

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>TLMcFarland</i>	Date/Time 2/23/10 1645	RECEIVED BY <i>Sherrin Sherwood</i> (Printed Name) (Signature) <i>Sherrin Sherwood</i>	Date/Time 2/23/10 1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

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

SAMPLE ID: RE36-10-7432

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:	QRT3		Allh
TIME COLLECTED(HH:MM)		1525		SUB-MEDIA:	TUFF 1		NA
PRS ID:	36-008	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610388			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	2.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	S		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-OEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+NO3+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown silty sand, tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-13

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 23 dpm
Beta/Gamma = 1995 dpm

73m 2/23/10
PID ~~Antineutr~~ = ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Jon Robertson

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) TLMcFarland	Date/Time 2/23/10 1645	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/23/10 1645
	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

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

SAMPLE ID: RE36-10-7433

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:	QBT		Alh
TIME COLLECTED(HH:MM)		15 40		SUB-MEDIA:	TUFF		NA
PRS ID:	36-008	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610589			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	B	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-OEL	125 ML POLY	Ice	Y	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: moist dark brown loamy silt

SAMPLE COMMENTS:

NA

LOCATION DESC: 8-8

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 25 dpm
Beta/Gamma = 2000 dpmPID ~~Ambient Reading~~ = ppm

72m 2/23/10

COLLECTED BY (PRINT)

T. McFarland

REVIEWED BY (PRINT) Jon Roberson

RELINQUISHED BY (Printed Name) T. McFarland (Signature) <i>T. McFarland</i>	Date/Time 2/23/10 1645	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) <i>Sheri Sherwood</i>	Date/Time 2/23/10 1645
	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

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

SAMPLE ID: RE36-10-7434

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:		OBT:	
TIME COLLECTED(HH:MM)		1555		SUB-MEDIA:		TUFF.	
PRS ID: 36-008		ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID: 36-610582		↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE: GENERIC		↓		FIELD PREP: NA		↓	
TOP DEPTH: 0		1.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH: 0		2.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX: B		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+NMRD 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+NO3+pH	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown moist silty sand, loam, needles

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-8

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 53 dpm
Beta/Gamma = 2030 dpm

PID ~~Ambient~~ = ppm

72m 2/23/10

COLLECTED BY (PRINT)

T. McFarlane

REVIEWED BY (PRINT) Jon Roberts

RELINQUISHED BY (Printed Name) T. McFarlane (Signature) T. McFarlane	Date/Time 2/23/10 1645	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/23/10 1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

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

SAMPLE ID: RE36-10-7516

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:		OBT	
TIME COLLECTED (HH:MM)		1340		SUB-MEDIA:		TUFF	
PRS ID: 36-008		OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID: UNK		36-010975		FIELD QC TYPE: ED		NA	
LOCATION TYPE: GENERIC		OK		FIELD PREP: NA		NA	
TOP DEPTH: 0		0.0		SAMPLE USAGE: QC		NA	
BOTTOM DEPTH: 0		0.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX: B		S		EXCAVATED: YES/NO/NA		NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA		NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		AM241+OS+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: QC Sample of RE36 -10-7403

Brown sandy silt, ash, roots, tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-11

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha < 35 dpm
Beta/Gamma < 1658 dpmPID ~~Ambient~~ = ppm

73m 2/23/10

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT) J. Robertson

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) TLMcFarland	2/23/10	(Printed Name) Jennifer Herwood	2/23/10
(Signature) Tracy Zant	1645	(Signature) Jennifer Herwood	1645
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

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

SAMPLE ID: RE36-10-7529

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:	NA		OK
TIME COLLECTED (HH:MM)		1427		SUB-MEDIA:	OTHER		
PRS ID:	36-008	OK		SAMPLE TECH CODE:	DC		
LOCATION ID:	UNK	36-610575		FIELD QC TYPE:	ER		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	UE		
TOP DEPTH:	Q			SAMPLE USAGE:	QC		
BOTTOM DEPTH:	Q			SCREEN/PORT DESC:			NA
FIELD MATRIX:	W			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	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		TCN	500 ML POLY	Sodium Hydroxide	Y	

SAMPLE DESC: QC Sample of RE36-10-7406

SAMPLE COMMENTS:

Rinsate

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

J. Robinson

RELINQUISHED BY (Printed Name) TLMcFarland (Signature) <i>TLMcFarland</i>	Date/Time 2/23/10 1645	RECEIVED BY (Printed Name) <i>Sherril Sherwood</i> (Signature) <i>Sherril Sherwood</i>	Date/Time 2/23/10 1645
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

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

SAMPLE ID: RE36-10-7540

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/23/2010		MEDIA:		NA	
TIME COLLECTED (HH:MM)		1145		SUB-MEDIA:		OTHER	
PRS ID: 16-008		ok		SAMPLE TECH CODE:		DC	
LOCATION ID: UNK		36-610585		FIELD QC TYPE:		ETR	
LOCATION TYPE: GENERIC		ok		FIELD PREP:		NA	
TOP DEPTH: 0				SAMPLE USAGE:		QC	
BOTTOM DEPTH: 0				SCREEN/PORT DESC:		NA	
FIELD MATRIX: S				EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
12	2/23/10					
1	Normal	8260B Trip Blank	40 ML SEPTUM AMBER GLASS	Ice	Y	

SAMPLE DESC: QC Sample of RE 36-10-7425

SAMPLE COMMENTS:

FTB

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT) J. R. Larson

RELINQUISHED BY (Printed Name) Th McFarland (Signature) [Signature]	Date/Time 2/23/10 1645	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) [Signature]	Date/Time 2/23/10 1645
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

DATA VALIDATION COVER SHEET

5121-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-2122 VALIDATION DATE: 4/27/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Linda Thal ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

Section II. Completeness Check


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

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


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

Reviewed by: Mary Donovan Level: I Date: 04/30/10


VALIDATOR'S SIGNATURE: *Linda Thal* DATE: 4/27/10

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	Records Use only
LC/MS/MS Perchlorate Analytical Data Validation Checklist	

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The ICV and/or CCV were recovered outside the method limits.	UJ, R, PERC7c	J, PERC7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, R, PERC7d	J, PERC7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, PERC7f	R, PERC7f
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. The affected analyte is considered not detected because ion abundance ratios did not meet specifications.	N/A	R, PERC8
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. The ion ratio documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	N/A	R, PERC8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ PERC9	J-, PERC9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. The holding time was > 2 times the applicable holding time requirement.	R, PERC9a	J-, PERC9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20. The LCS percent recovery was <10%. Follow the external laboratory limits.	R, PERC12	J-, PERC12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory limits.	UJ, PERC12a	J-, PERC12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. The LCS percent recovery was > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, PERC12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PERC12c	R, PERC12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. The MS/MSD percent recovery was <10%	R, PERC12d	R, PERC12d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The MS/MSD percent recovery was >10% but <75%	UJ, PERC12e	J, PERC12e
<input 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	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"/>	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: SOIL
 Extraction Batch ID: 959007
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7405
 Date Received: 26-FEB-10
 GEL Job No (SDG): 10-2122
 GEL Sample ID: 248198001
 Date Filtered: 12-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	1.21	4.85	13.6	ug/kg		2	20-MAR-10 19:00	per0320012a
	Perchlorate Isotope Ratio			3.18			2	20-MAR-10 19:00	per0320012a
14797-73-0	Perchlorate-101	1.21	4.85	12.9	ug/kg		2	20-MAR-10 19:00	per0320012a
	Perchlorate-O(18)			12.0	ug/kg		2	20-MAR-10 19:00	per0320012a

[^] 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

LT 4/27/10

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: 959007

Extraction Type: Solid Prep

Client Sample No.

RE36-10-7403

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198002

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 86

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	5.82	23.3	59.1	ug/kg		10	20-MAR-10 19:20	per0320015a
	Perchlorate Isotope Ratio			3.14			10	20-MAR-10 19:20	per0320015a
14797-73-0	Perchlorate-101	5.82	23.3	57.0	ug/kg		10	20-MAR-10 19:20	per0320015a
	Perchlorate-O(18)			60.5	ug/kg		10	20-MAR-10 19:20	per0320015a

[^] 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

LT 4/27/10

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: 959007

Extraction Type: Solid Prep

Client Sample No.

RE36-10-7406

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198003

Date Filtered: 12-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	1.12	4.47	12.4	ug/kg		2	20-MAR-10 19:26	per0320016a
	Perchlorate Isotope Ratio			3.09			2	20-MAR-10 19:26	per0320016a
14797-73-0	Perchlorate-101	1.12	4.47	12.2	ug/kg		2	20-MAR-10 19:26	per0320016a
	Perchlorate-O(18)			11.7	ug/kg		2	20-MAR-10 19:26	per0320016a

[^] 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

LT 4/27/10

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: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7404

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198004

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 88

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	5.68	22.7	88.2	ug/kg		10	20-MAR-10 19:33	per0320017a
	Perchlorate Isotope Ratio			3.07			10	20-MAR-10 19:33	per0320017a
14797-73-0	Perchlorate-101	5.68	22.7	87.0	ug/kg		10	20-MAR-10 19:33	per0320017a
	Perchlorate-O(18)			58.8	ug/kg		10	20-MAR-10 19:33	per0320017a

[^] 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

LT 4/27/10

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: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7516

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198005

Date Filtered: 12-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	1.22	4.88	13.0	ug/kg		2	20-MAR-10 19:39	per0320018a
	Perchlorate Isotope Ratio			3.11			2	20-MAR-10 19:39	per0320018a
14797-73-0	Perchlorate-101	1.22	4.88	12.6	ug/kg		2	20-MAR-10 19:39	per0320018a
	Perchlorate-O(18)			12.7	ug/kg		2	20-MAR-10 19:39	per0320018a

[^] 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

LT 4/27/10

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: 959007
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7426
 Date Received: 26-FEB-10
 GEL Job No (SDG): 10-2122
 GEL Sample ID: 248198006
 Date Filtered: 12-MAR-10
 Injection Volume (uL): 20
 %Solids: 88

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.571	2.28	3.19	ug/kg		1	20-MAR-10 19:46	per0320019a
	Perchlorate Isotope Ratio			3.01			1	20-MAR-10 19:46	per0320019a
14797-73-0	Perchlorate-101	.571	2.28	3.20	ug/kg		1	20-MAR-10 19:46	per0320019a
	Perchlorate-O(18)			6.11	ug/kg		1	20-MAR-10 19:46	per0320019a

[^] 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

LT 4/27/10

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: 959007
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7432
 Date Received: 26-FEB-10
 GEL Job No (SDG): 10-2122
 GEL Sample ID: 248198007
 Date Filtered: 12-MAR-10
 Injection Volume (uL): 20
 %Solids: 86

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	1.16	4.63	17.5	ug/kg		2	20-MAR-10 19:52	per0320020a
	Perchlorate Isotope Ratio			3.06			2	20-MAR-10 19:52	per0320020a
14797-73-0	Perchlorate-101	1.16	4.63	17.3	ug/kg		2	20-MAR-10 19:52	per0320020a
	Perchlorate-O(18)			11.7	ug/kg		2	20-MAR-10 19:52	per0320020a

[^] 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 quantization of Perchlorate.

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

LT 4/27/10

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: 959007
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7431
 Date Received: 26-FEB-10
 GEL Job No (SDG): 10-2122
 GEL Sample ID: 248198008
 Date Filtered: 12-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	.65	2.6	9.12	ug/kg		1	20-MAR-10 19:59	per0320021a
	Perchlorate Isotope Ratio			3.09			1	20-MAR-10 19:59	per0320021a
14797-73-0	Perchlorate-101	.65	2.6	8.93	ug/kg		1	20-MAR-10 19:59	per0320021a
	Perchlorate-O(18)			6.63	ug/kg		1	20-MAR-10 19:59	per0320021a

[^] 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

LT 4/27/10

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: 259007
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7434
 Date Received: 26-FEB-10
 GEL Job No (SDG): 10-2122
 GEL Sample ID: 248198009
 Date Filtered: 12-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	.648	2.59	2.21	ug/kg	J	1	19-MAR-10 15:49	per0319038a
	Perchlorate Isotope Ratio			3.01			1	19-MAR-10 15:49	per0319038a
14797-73-0	Perchlorate-101	.648	2.59	2.13	ug/kg	J	1	19-MAR-10 15:49	per0319038a
	Perchlorate-O(18)			6.22	ug/kg		1	19-MAR-10 15:49	per0319038a

[^] 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

LT 4/27/10

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: 259007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7425

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198010

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 78

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.642	2.57	5.06	ug/kg		1	19-MAR-10 15:56	per0319039a
	Perchlorate Isotope Ratio			3.03			1	19-MAR-10 15:56	per0319039a
14797-73-0	Perchlorate-101	.642	2.57	4.88	ug/kg		1	19-MAR-10 15:56	per0319039a
	Perchlorate-O(18)			6.20	ug/kg		1	19-MAR-10 15:56	per0319039a

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

LT 4/27/10

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: 259007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7429

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198011

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 70

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.711	2.85	4.99	ug/kg		1	19-MAR-10 16:03	per0319040a
	Perchlorate Isotope Ratio			3.02			1	19-MAR-10 16:03	per0319040a
14797-73-0	Perchlorate-101	.711	2.85	4.82	ug/kg		1	19-MAR-10 16:03	per0319040a
	Perchlorate-O(18)			6.84	ug/kg		1	19-MAR-10 16:03	per0319040a

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

LT 4/27/10

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: 959007
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7433
 Date Received: 26-FEB-10
 GEL Job No (SDG): 10-2122
 GEL Sample ID: 248198012
 Date Filtered: 12-MAR-10
 Injection Volume (uL): 20
 %Solids: 71

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.7	2.8	2.90	ug/kg		1	19-MAR-10 16:11	per0319041a
	Perchlorate Isotope Ratio			3.06			1	19-MAR-10 16:11	per0319041a
14797-73-0	Perchlorate-101	.7	2.8	2.76	ug/kg	J	1	19-MAR-10 16:11	per0319041a
	Perchlorate-O(18)			6.82	ug/kg		1	19-MAR-10 16:11	per0319041a

[^] 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

LT 4/27/10

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
 Sample Volume/Weight: 10.0 mL
 Concentrated Extract Volume: 10.0
 Client Sample No. RE36-10-7529
 Date Received: 26-FEB-10
 GEL Job No (SDG): 10-2122-1
 GEL Sample ID: 248199001
 Date Filtered: 05-MAR-10
 Injection Volume (uL): 20
 %Solids:

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 11:07	per0308129a
	Perchlorate Isotope Ratio						1	09-MAR-10 11:07	per0308129a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 11:07	per0308129a
	Perchlorate-O(18)			0.459	ug/L		1	09-MAR-10 11:07	per0308129a

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

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

LT 4/27/10

DATA VALIDATION COVER SHEET

5118-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-2122 VALIDATION DATE: 4/27/10 LAB CODE: GEL
 CONTRACT LABORATORY NAME: GEL Laboratories LLC
 VALIDATOR: Linda Thal 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 soil MB, Cd, Pb and V were detected. The Cd results for all associated samples except sample RE36-10-7431 were detects $\leq 5X$ the MB concentration and, thus, were qualified U,I4. The V results for all associated samples; the Cd result for sample -7431 and the Pb results for samples -7406, -7404, -7426 and -7434 were detects $> 5X$ but $\leq 50X$ the MB concentrations 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 water MB, Pb and Tl were detected. The associated sample result for Pb was a detect $\leq 5X$ the MB concentration and, thus was qualified U,I4. The associated sample result for Tl was an ND and, thus, was not qualified.
- In the soil ICB and/or CCBs, Tl, Be, U, Cd, Pb, Mg and V were detected. The Cd results for all associated samples except sample -7431 and the Tl results for all associated samples except samples -7403, -7426, -7429 and -7433 were detects $\leq 5X$ the greatest blank concentration and, thus, were qualified U,I4b. The remaining associated sample results were either detects $> 5X$ the greatest blank concentration or NDs and, thus, were not qualified. In the water ICB or CCB, Se and Tl were detected. The associated sample results were NDs and, thus, were not qualified.
- In the FR blank, sample -7529 associated with all soil samples, Na was detected. The associated sample results were detects $> 5X$ the FR blank concentration and, thus, were not qualified.
- The soil MS %Rs for K, Al, Ca, Mg, Mn, Ba and Fe were $>$ the laboratory's UALs. The associated Ba, Mg and K sample results were detects and, thus, were qualified J+I6b. The associated parent sample results for Al, Ca, Mn and Fe were detects $> 4X$ the spike amounts and, thus, no sample results were qualified based on professional judgment.
- It should be noted that the soil and water matrix QC for Hg were performed on samples from other LANL RNs. No


DATA VALIDATION COVER SHEET	
5118-1	Records Use only
Data Validation Cover Sheet	
sample data were qualified as a result.	
Reviewed by: <u>Mary Donovan</u> Level: <u>I</u> Date: <u>04/30/10</u>	
VALIDATOR'S SIGNATURE: <u><i>A. Neal</i></u> DATE: <u>4/27/10</u>	
Form 5118-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

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


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

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

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. Metals interference check sample percent recovery value is $\geq 50\%$ and $< 80\%$	UJ, I2a	J-, I2a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. Metals interference check sample percent recovery value is $> 120\%$.	N/A	J+, I2b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Metals interference check sample was not analyzed with the samples.	R, I2c	R, I2c
<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The sample and the duplicate sample results were $\geq 5X$ the RL and the duplicate RPD was $>20\%$ for water samples and $>35\%$ for soil samples.	UJ, I10a	J, I10a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The duplicate sample was not prepared and/or analyzed with the samples for unspecified reasons. The duplicate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	UJ, I10d	J, I10d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS percent recovery was $<10\%$. Follow the external laboratory limits located within the associated data package.	R, I12	R, I12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. The LCS percent recover was $<$ the LAL but $>10\%$. Follow the external laboratory limits located within the associated data package.	UJ, I12a	J-, I12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The LCS percent recovery was $>$ the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, I12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. Do not Reject if MS/MSD information is present. Qualify according to MS/MSD criteria.	R, I12c	R, I12c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	32. The quantitating IS area count is $<10\%$ for metals window in relation to the initial calibration blank. Follow the method-specific windows.	R, I1a	J, I1a

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

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				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: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198001

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7405

LEVEL: Low

DATE RECEIVED 26-FEB-10

MATRIX: SOIL

%SOLIDS: 82

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	7100000	ug/Kg		7970	23400	23400	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-36-0	Antimony	1170	ug/Kg	U	387	1170	1170	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-38-2	Arsenic	2.01	mg/kg		0.23	1.15	1.15	2	MS	PRB	04/13/10 00:57	100412-3	959129
7440-39-3	Barium J+,16b	92400	ug/Kg	N	117	586	586	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-41-7	Beryllium	0.834	mg/kg		0.023	0.115	0.115	2	MS	PRB	04/13/10 00:57	100412-3	959129
7440-43-9	Cadmium U,14	345	ug/Kg	J	117	586	586	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-70-2	Calcium	3520000	ug/Kg		9380	29300	29300	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-47-3	Chromium	6890	ug/Kg		176	586	586	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-48-4	Cobalt	3250	ug/Kg		176	586	586	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-50-8	Copper	6640	ug/Kg		352	1170	1170	1	P	HSC	03/30/10 01:46	032910A-1	959127
7439-89-6	Iron	10400000	ug/Kg		9380	29300	29300	1	P	HSC	03/30/10 01:46	032910A-1	959127
7439-92-1	Lead	15600	ug/Kg	E	293	1170	1170	1	P	HSC	03/30/10 01:46	032910A-1	959127
7439-95-4	Magnesium J+,16b	1580000	ug/Kg	N	9970	35200	35200	1	P	HSC	03/30/10 01:46	032910A-1	959127
7439-96-5	Manganese	537000	ug/Kg		234	1170	1170	1	P	HSC	03/30/10 01:46	032910A-1	959127
7439-97-6	Mercury	85.5	ug/kg		4.81	14.2	14.2	1	AV	JXL1	03/12/10 10:50	031210S1-6	958770
7440-02-0	Nickel	6.01	mg/kg		0.115	0.459	0.459	2	MS	PRB	04/13/10 00:57	100412-3	959129
7440-09-7	Potassium J+,16b	1970000	ug/Kg	N	7500	29300	29300	1	P	HSC	03/30/10 01:46	032910A-1	959127
7782-49-2	Selenium	1.15	mg/kg	UN	0.574	1.15	1.15	2	MS	PRB	04/13/10 00:57	100412-3	959129
7440-22-4	Silver	348	ug/Kg	J	117	586	586	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-23-5	Sodium	92000	ug/Kg		8210	29300	29300	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-28-0	Thallium U,14b	0.124	mg/kg	J	0.0689	0.23	0.23	2	MS	PRB	04/13/10 00:57	100412-3	959129
7440-61-1	Uranium	1.67	mg/kg		0.0152	0.0459	0.0459	2	MS	PRB	04/13/10 00:57	100412-3	959129
7440-62-2	Vanadium J,14a	15800	ug/Kg	E	117	586	586	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-66-6	Zinc	51400	ug/Kg		387	1170	1170	1	P	HSC	03/30/10 01:46	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.514	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.517	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.528	g	50	mL	03/04/10	FGA

LT 4/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198002

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7403

LEVEL: Low

DATE RECEIVED 26-FEB-10

MATRIX: SOIL

%SOLIDS: 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5160000	ug/Kg		7640	22500	22500	1	P	HSC	03/30/10 02:21	032910A-1	959127
7440-36-0	Antimony	5620	ug/Kg	U	1850	5620	5620	5	P	HSC	04/05/10 09:48	040510-2	959127
7440-38-2	Arsenic	1.08	mg/kg	U	0.215	1.08	1.08	2	MS	PRB	04/13/10 01:26	100412-3	959129
7440-39-3	Barium J+,16b	59600	ug/Kg	N	112	562	562	1	P	HSC	03/30/10 02:21	032910A-1	959127
7440-41-7	Beryllium	0.108	mg/kg	U	0.0215	0.108	0.108	2	MS	PRB	04/13/10 01:26	100412-3	959129
7440-43-9	Cadmium U,14	335	ug/Kg	J	112	562	562	1	P	HSC	03/30/10 02:21	032910A-1	959127
7440-70-2	Calcium	2870000	ug/Kg		8990	28100	28100	1	P	HSC	03/30/10 02:21	032910A-1	959127
7440-47-3	Chromium	6940	ug/Kg		169	562	562	1	P	HSC	03/30/10 02:21	032910A-1	959127
7440-48-4	Cobalt	1700	ug/Kg		169	562	562	1	P	HSC	03/30/10 02:21	032910A-1	959127
7440-50-8	Copper	23600	ug/Kg		337	1120	1120	1	P	HSC	03/30/10 02:21	032910A-1	959127
7439-89-6	Iron	8630000	ug/Kg		8990	28100	28100	1	P	HSC	03/30/10 02:21	032910A-1	959127
7439-92-1	Lead	15800	ug/Kg	E	281	1120	1120	1	P	HSC	03/30/10 02:21	032910A-1	959127
7439-95-4	Magnesium J+,16b	1160000	ug/Kg	N	9550	33700	33700	1	P	HSC	03/30/10 02:21	032910A-1	959127
7439-96-5	Manganese	279000	ug/Kg		225	1120	1120	1	P	HSC	03/30/10 02:21	032910A-1	959127
7439-97-6	Mercury	169	ug/kg		4.17	12.3	12.3	1	AV	JXL1	03/12/10 10:51	031210S1-6	958770
7440-02-0	Nickel	0.430	mg/kg	U	0.108	0.43	0.43	2	MS	PRB	04/13/10 01:26	100412-3	959129
7440-09-7	Potassium J+,16b	1360000	ug/Kg	N	7190	28100	28100	1	P	HSC	03/30/10 02:21	032910A-1	959127
7782-49-2	Selenium	1.08	mg/kg	UN	0.538	1.08	1.08	2	MS	PRB	04/13/10 01:26	100412-3	959129
7440-22-4	Silver	562	ug/Kg	U	112	562	562	1	P	HSC	03/30/10 02:21	032910A-1	959127
7440-23-5	Sodium	455000	ug/Kg		7860	28100	28100	1	P	HSC	03/30/10 02:21	032910A-1	959127
7440-28-0	Thallium	0.215	mg/kg	U	0.0645	0.215	0.215	2	MS	PRB	04/13/10 01:26	100412-3	959129
7440-61-1	Uranium	0.043	mg/kg	U	0.0142	0.043	0.043	2	MS	PRB	04/13/10 01:26	100412-3	959129
7440-62-2	Vanadium J,14a	11200	ug/Kg	E	112	562	562	1	P	HSC	03/30/10 02:21	032910A-1	959127
7440-66-6	Zinc	67900	ug/Kg		371	1120	1120	1	P	HSC	03/30/10 02:21	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.569	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.518	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.541	g	50	mL	03/04/10	FGA

LT 4/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198003

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7406

LEVEL: Low

DATE RECEIVED 26-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	6530000	ug/Kg		7200	21200	21200	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-36-0	Antimony	1060	ug/Kg	U	350	1060	1060	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-38-2	Arsenic	1.25	mg/kg		0.223	1.12	1.12	2	MS	PRB	04/13/10 01:30	100412-3	959129
7440-39-3	Barium J+,16b	65100	ug/Kg	N	106	530	530	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-41-7	Beryllium	0.831	mg/kg		0.0223	0.112	0.112	2	MS	PRB	04/13/10 01:30	100412-3	959129
7440-43-9	Cadmium U,14	241	ug/Kg	J	106	530	530	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-70-2	Calcium	2380000	ug/Kg		8480	26500	26500	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-47-3	Chromium	11300	ug/Kg		159	530	530	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-48-4	Cobalt	2380	ug/Kg		159	530	530	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-50-8	Copper	5180	ug/Kg		318	1060	1060	1	P	HSC	03/30/10 02:28	032910A-1	959127
7439-89-6	Iron	9260000	ug/Kg		8480	26500	26500	1	P	HSC	03/30/10 02:28	032910A-1	959127
7439-92-1	Lead J,14a	8550	ug/Kg	E	265	1060	1060	1	P	HSC	03/30/10 02:28	032910A-1	959127
7439-95-4	Magnesium J+,16b	1320000	ug/Kg	N	9010	31800	31800	1	P	HSC	03/30/10 02:28	032910A-1	959127
7439-96-5	Manganese	290000	ug/Kg		212	1060	1060	1	P	HSC	03/30/10 02:28	032910A-1	959127
7439-97-6	Mercury	32.4	ug/kg		4.18	12.3	12.3	1	AV	JXL1	03/12/10 10:53	031210S1-6	958770
7440-02-0	Nickel	2.41	mg/kg		0.112	0.447	0.447	2	MS	PRB	04/13/10 01:30	100412-3	959129
7440-09-7	Potassium J+,16b	1270000	ug/Kg	N	6780	26500	26500	1	P	HSC	03/30/10 02:28	032910A-1	959127
7782-49-2	Selenium	1.12	mg/kg	UN	0.558	1.12	1.12	2	MS	PRB	04/13/10 01:30	100412-3	959129
7440-22-4	Silver	530	ug/Kg	U	106	530	530	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-23-5	Sodium	84000	ug/Kg		7420	26500	26500	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-28-0	Thallium U,14b	0.595	mg/kg		0.067	0.223	0.223	2	MS	PRB	04/13/10 01:30	100412-3	959129
7440-61-1	Uranium	1.07	mg/kg		0.0147	0.0447	0.0447	2	MS	PRB	04/13/10 01:30	100412-3	959129
7440-62-2	Vanadium J,14a	13900	ug/Kg	E	106	530	530	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-66-6	Zinc	36000	ug/Kg		350	1060	1060	1	P	HSC	03/30/10 02:28	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.545	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.527	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.5	g	50	mL	03/04/10	FGA

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METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198004

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7404

LEVEL: Low

DATE RECEIVED 26-FEB-10

MATRIX: SOIL

%SOLIDS: 88

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5840000	ug/Kg		7430	21800	21800	1	P	HSC	03/30/10 02:49	032910A-1	959127
7440-36-0	Antimony	5460	ug/Kg	U	1800	5460	5460	3	P	HSC	04/05/10 09:55	040510-2	959127
7440-38-2	Arsenic	1.67	mg/kg		0.224	1.12	1.12	2	MS	PRB	04/13/10 01:34	100412-3	959129
7440-39-3	Barium J+,16b	55600	ug/Kg	N	109	546	546	1	P	HSC	03/30/10 02:49	032910A-1	959127
7440-41-7	Beryllium	1.01	mg/kg		0.0224	0.112	0.112	2	MS	PRB	04/13/10 01:34	100412-3	959129
7440-43-9	Cadmium U,14	245	ug/Kg	J	109	546	546	1	P	HSC	03/30/10 02:49	032910A-1	959127
7440-70-2	Calcium	2620000	ug/Kg		8740	27300	27300	1	P	HSC	03/30/10 02:49	032910A-1	959127
7440-47-3	Chromium	6540	ug/Kg		164	546	546	1	P	HSC	03/30/10 02:49	032910A-1	959127
7440-48-4	Cobalt	1550	ug/Kg		164	546	546	1	P	HSC	03/30/10 02:49	032910A-1	959127
7440-50-8	Copper	14500	ug/Kg		328	1090	1090	1	P	HSC	03/30/10 02:49	032910A-1	959127
7439-89-6	Iron	8530000	ug/Kg		8740	27300	27300	1	P	HSC	03/30/10 02:49	032910A-1	959127
7439-92-1	Lead J,14a	11700	ug/Kg	E	273	1090	1090	1	P	HSC	03/30/10 02:49	032910A-1	959127
7439-95-4	Magnesium J+,16b	1230000	ug/Kg	N	9280	32800	32800	1	P	HSC	03/30/10 02:49	032910A-1	959127
7439-96-5	Manganese	243000	ug/Kg		218	1090	1090	1	P	HSC	03/30/10 02:49	032910A-1	959127
7439-97-6	Mercury	118	ug/kg		4.02	11.8	11.8	1	AV	JXL1	03/12/10 10:55	031210S1-6	958770
7440-02-0	Nickel	5.43	mg/kg		0.112	0.447	0.447	2	MS	PRB	04/13/10 01:34	100412-3	959129
7440-09-7	Potassium J+,16b	1280000	ug/Kg	N	6990	27300	27300	1	P	HSC	03/30/10 02:49	032910A-1	959127
7782-49-2	Selenium	1.12	mg/kg	UN	0.559	1.12	1.12	2	MS	PRB	04/13/10 01:34	100412-3	959129
7440-22-4	Silver	546	ug/Kg	U	109	546	546	1	P	HSC	03/30/10 02:49	032910A-1	959127
7440-23-5	Sodium	735000	ug/Kg		7640	27300	27300	1	P	HSC	03/30/10 02:49	032910A-1	959127
7440-28-0	Thallium U,14b	0.0908	mg/kg	J	0.0671	0.224	0.224	2	MS	PRB	04/13/10 01:34	100412-3	959129
7440-61-1	Uranium	1.3	mg/kg		0.0148	0.0447	0.0447	2	MS	PRB	04/13/10 01:34	100412-3	959129
7440-62-2	Vanadium J,14a	11100	ug/Kg	E	109	546	546	1	P	HSC	03/30/10 02:49	032910A-1	959127
7440-66-6	Zinc	51200	ug/Kg		360	1090	1090	1	P	HSC	03/30/10 02:49	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.576	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.52	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.508	g	50	mL	03/04/10	FGA

LT 4/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198005

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7516

LEVEL: Low

DATE RECEIVED 26-FEB-10

MATRIX: SOIL

%SOLIDS: 82

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	7730000	ug/Kg		8110	23800	23800	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-36-0	Antimony	1190	ug/Kg	U	393	1190	1190	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-38-2	Arsenic	2.02	mg/kg		0.244	1.22	1.22	2	MS	PRB	04/13/10 01:38	100412-3	959129
7440-39-3	Barium J+,16b	95700	ug/Kg	N	119	596	596	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-41-7	Beryllium	0.847	mg/kg		0.0244	0.122	0.122	2	MS	PRB	04/13/10 01:38	100412-3	959129
7440-43-9	Cadmium U,14	455	ug/Kg	J	119	596	596	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-70-2	Calcium	3550000	ug/Kg		9540	29800	29800	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-47-3	Chromium	8290	ug/Kg		179	596	596	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-48-4	Cobalt	3200	ug/Kg		179	596	596	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-50-8	Copper	6550	ug/Kg		358	1190	1190	1	P	HSC	03/30/10 02:56	032910A-1	959127
7439-89-6	Iron	12400000	ug/Kg		9540	29800	29800	1	P	HSC	03/30/10 02:56	032910A-1	959127
7439-92-1	Lead	17000	ug/Kg	E	298	1190	1190	1	P	HSC	03/30/10 02:56	032910A-1	959127
7439-95-4	Magnesium J+,16b	2000000	ug/Kg	N	10100	35800	35800	1	P	HSC	03/30/10 02:56	032910A-1	959127
7439-96-5	Manganese	604000	ug/Kg		238	1190	1190	1	P	HSC	03/30/10 02:56	032910A-1	959127
7439-97-6	Mercury	121	ug/kg		4.87	14.3	14.3	1	AV	JXL1	03/12/10 10:56	031210S1-6	958770
7440-02-0	Nickel	5.83	mg/kg		0.122	0.488	0.488	2	MS	PRB	04/13/10 01:38	100412-3	959129
7440-09-7	Potassium J+,16b	2180000	ug/Kg	N	7630	29800	29800	1	P	HSC	03/30/10 02:56	032910A-1	959127
7782-49-2	Selenium	1.22	mg/kg	UN	0.61	1.22	1.22	2	MS	PRB	04/13/10 01:38	100412-3	959129
7440-22-4	Silver	362	ug/Kg	J	119	596	596	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-23-5	Sodium	129000	ug/Kg		8350	29800	29800	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-28-0	Thallium U,14b	0.107	mg/kg	J	0.0732	0.244	0.244	2	MS	PRB	04/13/10 01:38	100412-3	959129
7440-61-1	Uranium	1.72	mg/kg		0.0161	0.0488	0.0488	2	MS	PRB	04/13/10 01:38	100412-3	959129
7440-62-2	Vanadium J,14a	19100	ug/Kg	E	119	596	596	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-66-6	Zinc	69900	ug/Kg		393	1190	1190	1	P	HSC	03/30/10 02:56	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.511	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.512	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.5	g	50	mL	03/04/10	FGA

LT 4/27/10

METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198006

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7426

LEVEL: Low

DATE RECEIVED 26-FEB-10

MATRIX: SOIL

%SOLIDS: 88

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4860000	ug/Kg		7740	22800	22800	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-36-0	Antimony	1140	ug/Kg	U	375	1140	1140	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-38-2	Arsenic	1.3	mg/kg		0.226	1.13	1.13	2	MS	PRB	04/13/10 01:42	100412-3	959129
7440-39-3	Barium J+,16b	52700	ug/Kg	N	114	569	569	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-41-7	Beryllium	0.494	mg/kg		0.0226	0.113	0.113	2	MS	PRB	04/13/10 01:42	100412-3	959129
7440-43-9	Cadmium U,14	188	ug/Kg	J	114	569	569	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-70-2	Calcium	1570000	ug/Kg		9100	28400	28400	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-47-3	Chromium	10100	ug/Kg		171	569	569	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-48-4	Cobalt	2080	ug/Kg		171	569	569	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-50-8	Copper	3050	ug/Kg		341	1140	1140	1	P	HSC	03/30/10 03:04	032910A-1	959127
7439-89-6	Iron	7660000	ug/Kg		9100	28400	28400	1	P	HSC	03/30/10 03:04	032910A-1	959127
7439-92-1	Lead J,14a	8240	ug/Kg	E	284	1140	1140	1	P	HSC	03/30/10 03:04	032910A-1	959127
7439-95-4	Magnesium J+,16b	791000	ug/Kg	N	9670	34100	34100	1	P	HSC	03/30/10 03:04	032910A-1	959127
7439-96-5	Manganese	240000	ug/Kg		228	1140	1140	1	P	HSC	03/30/10 03:04	032910A-1	959127
7439-97-6	Mercury	20.7	ug/kg		4.65	13.7	13.7	1	AV	JXL1	03/12/10 10:58	031210S1-6	958770
7440-02-0	Nickel	3.73	mg/kg		0.113	0.452	0.452	2	MS	PRB	04/13/10 01:42	100412-3	959129
7440-09-7	Potassium J+,16b	840000	ug/Kg	N	7280	28400	28400	1	P	HSC	03/30/10 03:04	032910A-1	959127
7782-49-2	Selenium	1.13	mg/kg	UN	0.564	1.13	1.13	2	MS	PRB	04/13/10 01:42	100412-3	959129
7440-22-4	Silver	569	ug/Kg	U	114	569	569	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-23-5	Sodium	123000	ug/Kg		7960	28400	28400	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-28-0	Thallium	0.226	mg/kg	U	0.0677	0.226	0.226	2	MS	PRB	04/13/10 01:42	100412-3	959129
7440-61-1	Uranium	0.652	mg/kg		0.0149	0.0452	0.0452	2	MS	PRB	04/13/10 01:42	100412-3	959129
7440-62-2	Vanadium J,14a	11400	ug/Kg	E	114	569	569	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-66-6	Zinc	27800	ug/Kg		375	1140	1140	1	P	HSC	03/30/10 03:04	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt/vol.	Units	Final wt/vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.501	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.502	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.506	g	50	mL	03/04/10	FGA

LT 4/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198007

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7432

LEVEL: Low

DATE RECEIVED 26-FEB-10

MATRIX: SOIL

%SOLIDS: 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6010000	ug/Kg		7690	22600	22600	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-36-0	Antimony	1130	ug/Kg	U	373	1130	1130	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-38-2	Arsenic	1.72	mg/kg		0.22	1.1	1.1	2	MS	PRB	04/13/10 01:46	100412-3	959129
7440-39-3	Barium J+,16b	64100	ug/Kg	N	113	565	565	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-41-7	Beryllium	0.957	mg/kg		0.022	0.11	0.11	2	MS	PRB	04/13/10 01:46	100412-3	959129
7440-43-9	Cadmium U,14	355	ug/Kg	J	113	565	565	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-70-2	Calcium	2810000	ug/Kg		9050	28300	28300	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-47-3	Chromium	11900	ug/Kg		170	565	565	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-48-4	Cobalt	1910	ug/Kg		170	565	565	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-50-8	Copper	31000	ug/Kg		339	1130	1130	1	P	HSC	03/30/10 03:11	032910A-1	959127
7439-89-6	Iron	8980000	ug/Kg		9050	28300	28300	1	P	HSC	03/30/10 03:11	032910A-1	959127
7439-92-1	Lead	106000	ug/Kg	E	283	1130	1130	1	P	HSC	03/30/10 03:11	032910A-1	959127
7439-95-4	Magnesium J+,16b	1210000	ug/Kg	N	9610	33900	33900	1	P	HSC	03/30/10 03:11	032910A-1	959127
7439-96-5	Manganese	228000	ug/Kg		226	1130	1130	1	P	HSC	03/30/10 03:11	032910A-1	959127
7439-97-6	Mercury	10300	ug/kg		453	1330	1330	100	AV	JXL	03/12/10 14:05	031210S1-6	958770
7440-02-0	Nickel	5.9	mg/kg		0.11	0.44	0.44	2	MS	PRB	04/13/10 01:46	100412-3	959129
7440-09-7	Potassium J+,16b	850000	ug/Kg	N	7240	28300	28300	1	P	HSC	03/30/10 03:11	032910A-1	959127
7782-49-2	Selenium	1.1	mg/kg	UN	0.55	1.1	1.1	2	MS	PRB	04/13/10 01:46	100412-3	959129
7440-22-4	Silver	320	ug/Kg	J	113	565	565	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-23-5	Sodium	150000	ug/Kg		7920	28300	28300	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-28-0	Thallium U,14b	0.0671	mg/kg	J	0.066	0.22	0.22	2	MS	PRB	04/13/10 01:46	100412-3	959129
7440-61-1	Uranium	1.88	mg/kg		0.0145	0.044	0.044	2	MS	PRB	04/13/10 01:46	100412-3	959129
7440-62-2	Vanadium J,14a	11400	ug/Kg	E	113	565	565	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-66-6	Zinc	134000	ug/Kg		373	1130	1130	1	P	HSC	03/30/10 03:11	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.521	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.512	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.526	g	50	mL	03/04/10	FGA

LT 4/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198008

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7431

LEVEL: Low

DATE RECEIVED 26-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	4850000	ug/Kg		7710	22700	22700	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-36-0	Antimony	1130	ug/Kg	U	374	1130	1130	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-38-2	Arsenic	1.25	mg/kg	J	0.255	1.28	1.28	2	MS	PRB	04/13/10 07:48	100412-5	959129
7440-39-3	Barium J+,16b	75700	ug/Kg	N	113	567	567	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-41-7	Beryllium	0.396	mg/kg		0.0255	0.128	0.128	2	MS	PRB	04/13/10 07:48	100412-5	959129
7440-43-9	Cadmium J,14a	902	ug/Kg		113	567	567	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-70-2	Calcium	3200000	ug/Kg		9070	28300	28300	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-47-3	Chromium	13100	ug/Kg		170	567	567	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-48-4	Cobalt	2990	ug/Kg		170	567	567	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-50-8	Copper	4870000	ug/Kg		340	1130	1130	1	P	HSC	03/30/10 03:18	032910A-1	959127
7439-89-6	Iron	9800000	ug/Kg		9070	28300	28300	1	P	HSC	03/30/10 03:18	032910A-1	959127
7439-92-1	Lead	202000	ug/Kg	E	283	1130	1130	1	P	HSC	03/30/10 03:18	032910A-1	959127
7439-95-4	Magnesium J+,16b	1790000	ug/Kg	N	9640	34000	34000	1	P	HSC	03/30/10 03:18	032910A-1	959127
7439-96-5	Manganese	271000	ug/Kg		227	1130	1130	1	P	HSC	03/30/10 03:18	032910A-1	959127
7439-97-6	Mercury	14800	ug/kg		515	1510	1510	100	AV	JXL1	03/12/10 14:07	031210S1-6	958770
7440-02-0	Nickel	4.47	mg/kg		0.128	0.511	0.511	2	MS	PRB	04/13/10 07:48	100412-5	959129
7440-09-7	Potassium J+,16b	1070000	ug/Kg	N	7260	28300	28300	1	P	HSC	03/30/10 03:18	032910A-1	959127
7782-49-2	Selenium	1.28	mg/kg	UN	0.638	1.28	1.28	2	MS	PRB	04/13/10 07:48	100412-5	959129
7440-22-4	Silver	1150	ug/Kg		113	567	567	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-23-5	Sodium	126000	ug/Kg		7940	28300	28300	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-28-0	Thallium U,14b	0.0789	mg/kg	J	0.0766	0.255	0.255	2	MS	PRB	04/13/10 07:48	100412-5	959129
7440-61-1	Uranium	3.1	mg/kg		0.0168	0.0511	0.0511	2	MS	PRB	04/13/10 07:48	100412-5	959129
7440-62-2	Vanadium J,14a	16300	ug/Kg	E	113	567	567	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-66-6	Zinc	936000	ug/Kg		374	1130	1130	1	P	HSC	03/30/10 03:18	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.515	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.573	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.509	g	50	mL	03/04/10	FGA

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METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198009

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7434

LEVEL: Low

DATE RECEIVED 26-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	5540000	ug/Kg		8800	25900	25900	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-36-0	Antimony	1290	ug/Kg	U	427	1290	1290	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-38-2	Arsenic	1.82	mg/kg		0.241	1.21	1.21	2	MS	PRB	04/13/10 02:03	100412-3	959129
7440-39-3	Barium J+,16b	71100	ug/Kg	N	129	647	647	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-41-7	Beryllium	0.537	mg/kg		0.0241	0.121	0.121	2	MS	PRB	04/13/10 02:03	100412-3	959129
7440-43-9	Cadmium U,14	286	ug/Kg	J	129	647	647	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-70-2	Calcium	2480000	ug/Kg		10400	32300	32300	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-47-3	Chromium	8080	ug/Kg		194	647	647	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-48-4	Cobalt	2130	ug/Kg		194	647	647	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-50-8	Copper	5050	ug/Kg		388	1290	1290	1	P	HSC	03/30/10 03:25	032910A-1	959127
7439-89-6	Iron	8170000	ug/Kg		10400	32300	32300	1	P	HSC	03/30/10 03:25	032910A-1	959127
7439-92-1	Lead J,14a	11900	ug/Kg	E	323	1290	1290	1	P	HSC	03/30/10 03:25	032910A-1	959127
7439-95-4	Magnesium J+,16b	1140000	ug/Kg	N	11000	38800	38800	1	P	HSC	03/30/10 03:25	032910A-1	959127
7439-96-5	Manganese	267000	ug/Kg		259	1290	1290	1	P	HSC	03/30/10 03:25	032910A-1	959127
7439-97-6	Mercury	65.1	ug/kg		4.68	13.8	13.8	1	AV	JXL1	03/12/10 11:06	031210S1-6	958770
7440-02-0	Nickel	4.2	mg/kg		0.121	0.483	0.483	2	MS	PRB	04/13/10 02:03	100412-3	959129
7440-09-7	Potassium J+,16b	995000	ug/Kg	N	8280	32300	32300	1	P	HSC	03/30/10 03:25	032910A-1	959127
7782-49-2	Selenium	1.21	mg/kg	UN	0.604	1.21	1.21	2	MS	PRB	04/13/10 02:03	100412-3	959129
7440-22-4	Silver	149	ug/Kg	J	129	647	647	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-23-5	Sodium	96600	ug/Kg		9060	32300	32300	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-28-0	Thallium U,14b	0.104	mg/kg	J	0.0724	0.241	0.241	2	MS	PRB	04/13/10 02:03	100412-3	959129
7440-61-1	Uranium	1.41	mg/kg		0.0159	0.0483	0.0483	2	MS	PRB	04/13/10 02:03	100412-3	959129
7440-62-2	Vanadium J,14a	13200	ug/Kg	E	129	647	647	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-66-6	Zinc	30300	ug/Kg		427	1290	1290	1	P	HSC	03/30/10 03:25	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.565	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.501	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.537	g	50	mL	03/04/10	FGA

LT 4/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198010

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7425

LEVEL: Low

DATE RECEIVED 26-FEB-10

MATRIX: SOIL

%SOLIDS: 78

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6550000	ug/Kg		7770	22900	22900	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-36-0	Antimony	1140	ug/Kg	U	377	1140	1140	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-38-2	Arsenic	1.69	mg/kg		0.245	1.22	1.22	2	MS	PRB	04/13/10 02:07	100412-3	959129
7440-39-3	Barium J+,16b	99000	ug/Kg	N	114	571	571	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-41-7	Beryllium	0.734	mg/kg		0.0245	0.122	0.122	2	MS	PRB	04/13/10 02:07	100412-3	959129
7440-43-9	Cadmium U,14	316	ug/Kg	J	114	571	571	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-70-2	Calcium	3560000	ug/Kg		9140	28600	28600	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-47-3	Chromium	8090	ug/Kg		171	571	571	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-48-4	Cobalt	3030	ug/Kg		171	571	571	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-50-8	Copper	6870	ug/Kg		343	1140	1140	1	P	HSC	03/30/10 03:32	032910A-1	959127
7439-89-6	Iron	9660000	ug/Kg		9140	28600	28600	1	P	HSC	03/30/10 03:32	032910A-1	959127
7439-92-1	Lead	14900	ug/Kg	E	286	1140	1140	1	P	HSC	03/30/10 03:32	032910A-1	959127
7439-95-4	Magnesium J+,16b	1420000	ug/Kg	N	9710	34300	34300	1	P	HSC	03/30/10 03:32	032910A-1	959127
7439-96-5	Manganese	506000	ug/Kg		229	1140	1140	1	P	HSC	03/30/10 03:32	032910A-1	959127
7439-97-6	Mercury	31.6	ug/kg		4.8	14.1	14.1	1	AV	JXL1	03/12/10 11:08	031210S1-6	958770
7440-02-0	Nickel	6.24	mg/kg		0.122	0.489	0.489	2	MS	PRB	04/13/10 02:07	100412-3	959129
7440-09-7	Potassium J+,16b	1380000	ug/Kg	N	7310	28600	28600	1	P	HSC	03/30/10 03:32	032910A-1	959127
7782-49-2	Selenium	1.22	mg/kg	UN	0.612	1.22	1.22	2	MS	PRB	04/13/10 02:07	100412-3	959129
7440-22-4	Silver	310	ug/Kg	J	114	571	571	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-23-5	Sodium	86200	ug/Kg		8000	28600	28600	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-28-0	Thallium U,14b	0.102	mg/kg	J	0.0734	0.245	0.245	2	MS	PRB	04/13/10 02:07	100412-3	959129
7440-61-1	Uranium	1.37	mg/kg		0.0161	0.0489	0.0489	2	MS	PRB	04/13/10 02:07	100412-3	959129
7440-62-2	Vanadium J,14a	15500	ug/Kg	E	114	571	571	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-66-6	Zinc	39700	ug/Kg		377	1140	1140	1	P	HSC	03/30/10 03:32	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.546	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.562	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.525	g	50	mL	03/04/10	FGA

LT 4/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198011

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7429

LEVEL: Low

DATE RECEIVED 26-FEB-10

MATRIX: SOIL

%SOLIDS: 70

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6250000	ug/Kg		9540	28100	28100	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-36-0	Antimony	1400	ug/Kg	U	463	1400	1400	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-38-2	Arsenic	1.84	mg/kg		0.27	1.35	1.35	2	MS	PRB	04/13/10 02:11	100412-3	959129
7440-39-3	Barium J+,16b	105000	ug/Kg	N	140	702	702	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-41-7	Beryllium	0.827	mg/kg		0.027	0.135	0.135	2	MS	PRB	04/13/10 02:11	100412-3	959129
7440-43-9	Cadmium U,14	384	ug/Kg	J	140	702	702	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-70-2	Calcium	4100000	ug/Kg		11200	35100	35100	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-47-3	Chromium	8590	ug/Kg		210	702	702	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-48-4	Cobalt	2850	ug/Kg		210	702	702	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-50-8	Copper	6640	ug/Kg		421	1400	1400	1	P	HSC	03/30/10 03:40	032910A-1	959127
7439-89-6	Iron	10300000	ug/Kg		11200	35100	35100	1	P	HSC	03/30/10 03:40	032910A-1	959127
7439-92-1	Lead	15500	ug/Kg	E	351	1400	1400	1	P	HSC	03/30/10 03:40	032910A-1	959127
7439-95-4	Magnesium J+,16b	1580000	ug/Kg	N	11900	42100	42100	1	P	HSC	03/30/10 03:40	032910A-1	959127
7439-96-5	Manganese	605000	ug/Kg		281	1400	1400	1	P	HSC	03/30/10 03:40	032910A-1	959127
7439-97-6	Mercury	23.6	ug/kg		5	14.7	14.7	1	AV	JXL1	03/12/10 11:10	031210S1-6	958770
7440-02-0	Nickel	5.52	mg/kg		0.135	0.541	0.541	2	MS	PRB	04/13/10 02:11	100412-3	959129
7440-09-7	Potassium J+,16b	1630000	ug/Kg	N	8980	35100	35100	1	P	HSC	03/30/10 03:40	032910A-1	959127
7782-49-2	Selenium	1.35	mg/kg	UN	0.676	1.35	1.35	2	MS	PRB	04/13/10 02:11	100412-3	959129
7440-22-4	Silver	328	ug/Kg	J	140	702	702	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-23-5	Sodium	75300	ug/Kg		9820	35100	35100	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-28-0	Thallium	0.270	mg/kg	U	0.0811	0.27	0.27	2	MS	PRB	04/13/10 02:11	100412-3	959129
7440-61-1	Uranium	1.85	mg/kg		0.0179	0.0541	0.0541	2	MS	PRB	04/13/10 02:11	100412-3	959129
7440-62-2	Vanadium J,14a	15800	ug/Kg	E	140	702	702	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-66-6	Zinc	200000	ug/Kg		463	1400	1400	1	P	HSC	03/30/10 03:40	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.581	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.507	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.526	g	50	mL	03/04/10	FGA

LT 4/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198012

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7433

LEVEL: Low

DATE RECEIVED 26-FEB-10

MATRIX: SOIL

%SOLIDS: 71

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6760000	ug/Kg		9120	26800	26800	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-36-0	Antimony	1340	ug/Kg	U	443	1340	1340	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-38-2	Arsenic	2.38	mg/kg		0.278	1.39	1.39	2	MS	PRB	04/13/10 02:15	100412-3	959129
7440-39-3	Barium J+,16b	121000	ug/Kg	N	134	671	671	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-41-7	Beryllium	0.733	mg/kg		0.0278	0.139	0.139	2	MS	PRB	04/13/10 02:15	100412-3	959129
7440-43-9	Cadmium U,14	510	ug/Kg	J	134	671	671	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-70-2	Calcium	4440000	ug/Kg		10700	33500	33500	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-47-3	Chromium	7890	ug/Kg		201	671	671	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-48-4	Cobalt	3640	ug/Kg		201	671	671	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-50-8	Copper	12200	ug/Kg		403	1340	1340	1	P	HSC	03/30/10 03:47	032910A-1	959127
7439-89-6	Iron	9550000	ug/Kg		10700	33500	33500	1	P	HSC	03/30/10 03:47	032910A-1	959127
7439-92-1	Lead	27100	ug/Kg	E	335	1340	1340	1	P	HSC	03/30/10 03:47	032910A-1	959127
7439-95-4	Magnesium J+,16b	1750000	ug/Kg	N	11400	40300	40300	1	P	HSC	03/30/10 03:47	032910A-1	959127
7439-96-5	Manganese	520000	ug/Kg		268	1340	1340	1	P	HSC	03/30/10 03:47	032910A-1	959127
7439-97-6	Mercury	44.9	ug/kg		5.5	16.2	16.2	1	AV	JXL1	03/12/10 11:12	031210S1-6	958770
7440-02-0	Nickel	5.88	mg/kg		0.139	0.556	0.556	2	MS	PRB	04/13/10 02:15	100412-3	959129
7440-09-7	Potassium J+,16b	1480000	ug/Kg	N	8590	33500	33500	1	P	HSC	03/30/10 03:47	032910A-1	959127
7782-49-2	Selenium	1.39	mg/kg	UN	0.695	1.39	1.39	2	MS	PRB	04/13/10 02:15	100412-3	959129
7440-22-4	Silver	165	ug/Kg	J	134	671	671	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-23-5	Sodium	84100	ug/Kg		9390	33500	33500	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-28-0	Thallium	0.278	mg/kg	U	0.0834	0.278	0.278	2	MS	PRB	04/13/10 02:15	100412-3	959129
7440-61-1	Uranium	3.88	mg/kg		0.0183	0.0556	0.0556	2	MS	PRB	04/13/10 02:15	100412-3	959129
7440-62-2	Vanadium J,14a	17200	ug/Kg	E	134	671	671	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-66-6	Zinc	44800	ug/Kg		443	1340	1340	1	P	HSC	03/30/10 03:47	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.52	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.522	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.504	g	50	mL	03/04/10	FGA

LT 4/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248199001

BASIS: As Received

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7529

LEVEL: Low

DATE RECEIVED 26-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	03/29/10 20:25	032910C-1	959109
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	PRB	04/13/10 14:11	100413-3	959112
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BCD1	04/12/10 05:18	100411-2	959112
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BCD1	04/12/10 05:18	100411-2	959112
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	03/29/10 20:25	032910C-1	959109
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	03/29/10 20:25	032910C-1	959109
7439-92-1	Lead U,14	1.43	ug/L	J	0.5	2	2	1	MS	BCD1	04/12/10 05:18	100411-2	959112
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	03/29/10 20:25	032910C-1	959109
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	BCD1	04/12/10 05:18	100411-2	959112
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	03/02/10 12:29	030210W3-6	958969
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-09-7	Potassium	150	ug/L	U	50	150	150	1	P	HSC	03/29/10 20:25	032910C-1	959109
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-23-5	Sodium	115	ug/L	J	100	300	300	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	BCD1	04/12/10 05:18	100411-2	959112
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	PRB	04/13/10 16:37	100413-5	959112
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	03/29/10 20:25	032910C-1	959109

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
959109	959108	SW846 3005A	50	mL	50	mL	03/04/10	FGA
959112	959110	SW846 3005A	50	mL	50	mL	03/04/10	FGA

LT 4/27/10

DATA VALIDATION COVER SHEET	
5120-1 <p style="text-align: center;">Data Validation Cover Sheet</p>	Records Use only 

Section I.		
REQUEST NUMBER: <u>10-2122</u>	VALIDATION DATE: <u>4/27/10</u>	LAB CODE: <u>GEL</u>
CONTRACT LABORATORY NAME: <u>GEL Laboratories LLC</u>		
VALIDATOR: <u>Linda Thal</u> ORGANIZATION: <u>Analytical Quality Associates, Inc.</u>		
ANALYTICAL SUITE (CHECK ALL THAT APPLY):		
<input type="checkbox"/> TPH-GRO	<input type="checkbox"/> HIGH EXPLOSIVES	<input type="checkbox"/> DIOXIN FURANS
<input type="checkbox"/> TPH-DRO	<input type="checkbox"/> METALS	<input type="checkbox"/> PCB CONGENERS
<input checked="" type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY	<input type="checkbox"/> LCMSMS HIGH EXPLOSIVES
		<input type="checkbox"/> LCMSMS PERCHLORATES
		<input type="checkbox"/> ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS
<input type="checkbox"/> OTHER (DESCRIBE): _____		

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


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

1. Nitrate/nitrite was detected in the water MB. The associated sample result was an ND and, thus, was not qualified.
2. The soil matrix QC for total cyanide and the water matrix QC for all target analytes were performed on samples from other LANL RNs. No sample data were qualified as a result.
3. The lab did not receive the nitrate/nitrite container for sample -7529. An aliquot was taken from the perchlorate container and preserved prior to analysis. No sample data were qualified as a result.


Reviewed by: Mary DonovanLevel: IDate: 04/30/10

VALIDATOR'S SIGNATURE: _____


*Linda Thal*DATE: 4/27/10

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

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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: 10-2122

Client Sample ID: RE36-10-7405
Sample ID: 248198001
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 17.5%

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 21.1C	H	7.45	0.010	0.100	SU	1	TXT1	03/02/10	1545	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		980	80.8	297	ug/kg	1	AXC2	03/09/10	1411	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.61	0.364	1.21	mg/kg	1	GXM	03/22/10	1559	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

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: 10-2122

Client Sample ID: RE36-10-7403
Sample ID: 248198002
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 14.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.9C	H	7.21	0.010	0.100	SU	1	TXT1	03/02/10	1548	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	82.6	79.2	291	ug/kg	1	AXC2	03/09/10	1411	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		15.5	0.349	1.16	mg/kg	1	GXM	03/22/10	1759	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

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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Project: LANL ER Project

Report Date: March 25, 2010

Client SDG: 10-2122

Client Sample ID: RE36-10-7406
Sample ID: 248198003
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 10.4%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.6C	H	6.57	0.010	0.100	SU	1	TXT1	03/02/10	1551	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	190	73.0	268	ug/kg	1	AXC2	03/09/10	1412	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.335	1.12	mg/kg	1	GXM	03/22/10	1828	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

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: 10-2122

Client Sample ID: RE36-10-7404
Sample ID: 248198004
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 11.9%

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	7.18	0.010	0.100	SU	1	TXT1	03/02/10	1555	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	70.2	258	ug/kg	1	AXC2	03/09/10	1413	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		17.7	0.341	1.14	mg/kg	1	GXM	03/22/10	1858	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

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: 10-2122

Client Sample ID: RE36-10-7516
Sample ID: 248198005
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 18.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.9C	H	7.41	0.010	0.100	SU	1	TXT1	03/02/10	1557	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		973	78.3	288	ug/kg	1	AXC2	03/09/10	1504	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.39	0.366	1.22	mg/kg	1	GXM	03/22/10	1928	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

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: 10-2122

Client Sample ID: RE36-10-7426
Sample ID: 248198006
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 12.5%

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 22.0C	H	6.23	0.010	0.100	SU	1	TXT1	03/02/10	1559	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		428	70.6	260	ug/kg	1	AXC2	03/09/10	1505	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.343	1.14	mg/kg	1	GXM	03/22/10	2058	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

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: 10-2122

Client Sample ID: RE36-10-7432
Sample ID: 248198007
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 13.6%

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	8.03	0.010	0.100	SU	1	TXT1	03/02/10	1600	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	78.7	290	ug/kg	1	AXC2	03/09/10	1505	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.347	1.16	mg/kg	1	GXM	03/22/10	2128	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

The following Analytical Methods were performed

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

LT 4/27/10

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: 10-2122

Client Sample ID: RE36-10-7431
Sample ID: 248198008
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 23%

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	7.23	0.010	0.100	SU	1	TXT1	03/02/10	1602	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	88.4	325	ug/kg	1	AXC2	03/09/10	1506	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.390	1.30	mg/kg	1	GXM	03/22/10	2158	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

The following Analytical Methods were performed

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

LT 4/27/10

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Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 25, 2010

Client SDG: 10-2122

Client Sample ID: RE36-10-7434
Sample ID: 248198009
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 22.9%

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 21.8C	H	6.41	0.010	0.100	SU	1	TXT1	03/02/10	1608	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		534	88.2	324	ug/kg	1	AXC2	03/09/10	1507	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.84	0.389	1.30	mg/kg	1	GXM	03/22/10	2228	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

The following Analytical Methods were performed

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

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Certificate of Analysis

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

Report Date: March 25, 2010

Client SDG: 10-2122

Client Sample ID: RE36-10-7425
Sample ID: 248198010
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 22.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.9C	H	7.29	0.010	0.100	SU	1	TXT1	03/02/10	1610	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		400	80.9	297	ug/kg	1	AXC2	03/09/10	1508	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		29.9	0.385	1.28	mg/kg	1	GXM	03/22/10	2258	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

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: 10-2122

Client Sample ID: RE36-10-7429
Sample ID: 248198011
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 29.7%

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 21.7C	H	7.07	0.010	0.100	SU	1	TXT1	03/02/10	1611	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		346	93.0	342	ug/kg	1	AXC2	03/09/10	1509	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		4.09	0.427	1.42	mg/kg	1	GXM	03/22/10	2327	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

The following Analytical Methods were performed

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

LT 4/27/10

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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: 10-2122

Client Sample ID: RE36-10-7433
Sample ID: 248198012
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 28.6%

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 21.8C	H	6.64	0.010	0.100	SU	1	TXT1	03/02/10	1613	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		577	89.9	330	ug/kg	1	AXC2	03/09/10	1510	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.04	0.420	1.40	mg/kg	1	GXM	03/22/10	2357	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

The following Analytical Methods were performed

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

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Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 17, 2010

Client SDG: 10-2122-1

Client Sample ID: RE36-10-7529
Sample ID: 248199001
Matrix: W
Collect Date: 23-FEB-10 12:00
Receive Date: 26-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	1530	959217	1
Nutrient Analysis											
<i>EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"</i>											
Nitrogen, Nitrate/Nitrite	U	ND	0.050	0.250	mg/L	5	AXH3	03/03/10	1232	959199	2

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	
2	EPA 353.2	

LT 4/27/10

Thursday, February 25, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2122

LOS ALAMOS

REQUEST NUMBER: 10-2122

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/27/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

248198, 248199/.

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-7405	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7405	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7403	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7403	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7406	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7406	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7404	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7404	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7516	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7516	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7529	1	POLY	METALS+U-GEL	Nitric Acid	W
RE36-10-7529	1	POLY	NO3NO2	Sulfuric Acid (Hydrogen Sulfate)	W
RE36-10-7529	1	POLY	SW-846:6850	Ice	W
RE36-10-7529	1	POLY	TCN	Sodium Hydroxide	W
RE36-10-7426	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7426	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7432	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7432	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7431	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7431	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7434	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7434	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7425	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7425	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7429	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7429	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7433	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7433	1	POLY	Perchlorate+CN+N03+pH	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

2/25/10 1400

Printed Name

Signature

Greg Tyler Greg Tyler 2-26-10 0845

Thursday, February 25, 2010
LOS ALAMOS
 NATIONAL LABORATORY

Page 1 of 4
 REQUEST NUMBER: 10-2122

ATTN: Valerie Davis
 General Engineering Laboratories, Inc., Charleston, SC.
 2040 Savage Rd
 Charleston, SC 29407

These Samples are on:
 LANL Request Number: 10-2122
 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: 3/27/2010
 TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background
 LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature: 

PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA-300.0	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7428	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	

Thursday, February 25, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA-300.0	1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
	EPA-353.2	1	RE36-10-7529	W	2/23/2010	
	SW-846.6010B	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
	SW-846.6020	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	

Thursday, February 25, 2010 Page 3 of 4
REQUEST NUMBER: 10-2122

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846.6020	1	RE36-10-7528	W	2/23/2010	
	SW-846.6650	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7428	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
		1	RE36-10-7529	W	2/23/2010	
	SW-846.7470A	1	RE36-10-7529	W	2/23/2010	
	SW-846.7471A	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	

Thursday, February 25, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:9012A	1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7428	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
		1	RE36-10-7529	W	2/23/2010	
	SW-846:9045C	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7408	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	

Final Page of REQUEST NUMBER 10-2122



March 04, 2010

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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: 248198 248199
SDG: 10-2122

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 26, 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: 10-2122
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 248198 and 248199
SDG: 10-2122

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Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 248198 and 248199
SDG # : 10-2122**

March 04, 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 26, 2010 for analysis. The samples were prepared/analyzed within the required holding time. Shipping container temperatures were checked, documented, and within specifications. The samples were screened according to GEL Standard Operating Procedure. The lab did not receive the NO₃NO₂ container for sample RE36-10-7529. Los Alamos was notified. 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>
248198001	RE36-10-7405
248198002	RE36-10-7403
248198003	RE36-10-7406
248198004	RE36-10-7404
248198005	RE36-10-7516
248198006	RE36-10-7426
248198007	RE36-10-7432
248198008	RE36-10-7431
248198009	RE36-10-7434
248198010	RE36-10-7425
248198011	RE36-10-7429
248198012	RE36-10-7433
248199001	RE36-10-7529

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 04 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

Thursday, February 25, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2122

LOS ALAMOS

REQUEST NUMBER: 10-2122

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/27/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

248198, 248199/

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-7405	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7405	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7403	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7403	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7406	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7406	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7404	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7404	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7516	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7516	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7529	1	POLY	METALS+U-GEL	Nitric Acid	W
RE36-10-7529	1	POLY	NO3NO2	Sulfuric Acid (Hydrogen Sulfate)	W
RE36-10-7529	1	POLY	SW-846:6850	Ice	W
RE36-10-7529	1	POLY	TCN	Sodium Hydroxide	W
RE36-10-7426	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7426	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7432	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7432	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7431	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7431	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7434	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7434	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7425	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7425	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7429	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7429	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7433	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7433	1	POLY	Perchlorate+CN+N03+pH	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Thursday, February 25, 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: 2/25/2010

TURNAROUND/REPORT DUE: 3/27/2010

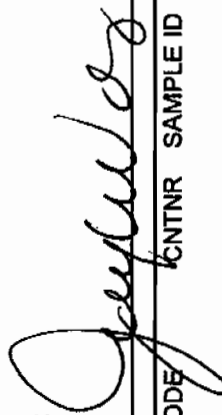
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



Page 1 of 4
REQUEST NUMBER: 10-2122

These Samples are on:

LANL Request Number: 10-2122

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
EPA-300.0						
		1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	

Thursday, February 25, 2010 Page 2 of 4
 REQUEST NUMBER: 10-2122

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA-300.0	1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
	EPA-353.2	1	RE36-10-7529	W	2/23/2010	
	SW-846:6010B	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
	SW-846:6020	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7435	R	2/23/2010	

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE36-10-7529	W	2/23/2010	
	SW-846:6850	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
		1	RE36-10-7529	W	2/23/2010	
	SW-846:7470A	1	RE36-10-7529	W	2/23/2010	
	SW-846:7471A	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
		1	RE36-10-7403	R	2/23/2010	

Thursday, February 25, 2010

REQUEST NUMBER: 10-2122

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:9012A	1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	
		1	RE36-10-7529	W	2/23/2010	
	SW-846:9045C	1	RE36-10-7403	R	2/23/2010	
		1	RE36-10-7404	R	2/23/2010	
		1	RE36-10-7405	R	2/23/2010	
		1	RE36-10-7406	R	2/23/2010	
		1	RE36-10-7425	R	2/23/2010	
		1	RE36-10-7426	R	2/23/2010	
		1	RE36-10-7429	R	2/23/2010	
		1	RE36-10-7431	R	2/23/2010	
		1	RE36-10-7432	R	2/23/2010	
		1	RE36-10-7433	R	2/23/2010	
		1	RE36-10-7434	R	2/23/2010	
		1	RE36-10-7516	R	2/23/2010	

Final Page of REQUEST NUMBER 10-2122



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LANL			SDG/ARCOC/Work Order: 10-2122		
Received By: Greg Tyler			Date Received: 2/26/10		
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.		
COC/Samples marked as radioactive?		X	Maximum Counts Observed*: 60cpm		
Classified Radioactive II by RSO?		X			
COC/Samples marked containing PCBs?		X			
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:		
Samples identified as Foreign Soil?		X			

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2 Samples requiring cold preservation within 0 ≤ 6 deg. C?	X			Preservation Method: ice bags blue ice dry ice none other 1-3,6C 11-14,17
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5 Samples requiring chemical preservation at proper pH?	X			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			Id's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?		X		Sample ID's affected: No time on Chain of Custody.
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: RE36-10-7529 The lab did not receive the (1) 250 MI Poly for N03N02 as indicated on COC.
12 COC form is properly signed in relinquished/received sections?	X			

Comments:

Fed Ex Tracking Numbers:

7209 7850 2341 1C	7209 7850 2319 2C	7209 7850 2352 12C
7209 7850 2320 1C	7209 7850 2422 3C	7209 7850 2271 13C
7209 7850 2396 2C	7209 7850 2385 3C	7209 7850 2466 13C
7209 7850 2374 2C	7209 7850 2444 6C	7209 7850 2282 14C
7209 7850 2330 2C	7209 7850 2400 6C	7209 7850 2293 17C
7209 7850 2455 2C	7209 7850 2477 6C	
7209 7850 2308 2C	7209 7850 2433 6C	
7209 7850 2411 2C	7209 7850 2260 11C	

PM (or PMA) review: Initials

Date 3/1/10

Subject: Sample Receipt for 2/26/10

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

Date: Mon, 01 Mar 2010 10:54:43 -0500

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

Keith,

RN 10-2096: the Gross A/B containers will be preserved prior to analysis.

RN 10-2108: the Gross A/B, Metals, Rad and CN will be preserved prior to analysis.

RN 10-2101: the lab rec'd (1) 1L amber glass HEXP container for sample CAPA-10-12847 instead of (3) as indicated on the COC.

RN 10-2122: the lab did not receive a NO3NO2 container for sample RE36-10-7529.

RN 10-2090: the lab did not receive a NO3NO2 container for sample RE15-10-8407.

RN 10-2093: the lab did not receive a NO3NO2 container for sample RE36-10-8458.

An aliquot will be taken from the perchlorate container and preserved.

RN 10-2102: the lab rec'd (1) 40ml vial 8260B container for sample RE46-10-13207 instead of (2) as indicated on the COC.

RN 10-2107: the Ra226+228, Rad, Gross A/B, Metals and CN containers will be preserved prior to analysis.

RN 10-2110: the TKN+TOC container for sample CAPA-10-12823 will be preserved prior to analysis.

The lab did not receive any containers for RN#s 10-2097 and 10-2098.

The following containers rec'd without a COC:

WST51-10-13119 - LL-H3 1L poly

RE11-10-1654 - RADVANA+B+G 250ml poly

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
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 25FEB10
ACTWGT: 57.0 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: 25FEB10
ACTWGT: 48.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A022DXL00

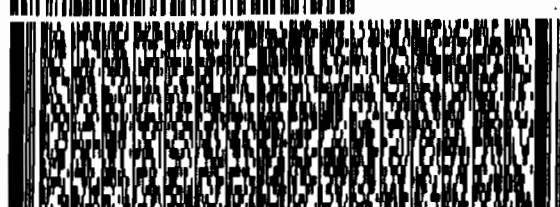
TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR1A015AGNMO



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Express



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Express



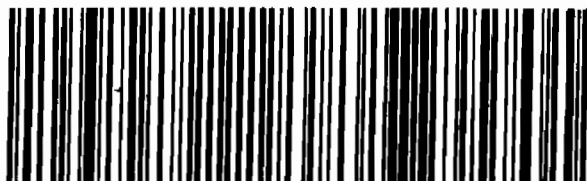
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1 of 2
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MM MASTER MM

FRI - 26FEB A1
PRIORITY OVERNIGHT

XX CHSA

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SC-US
CHS

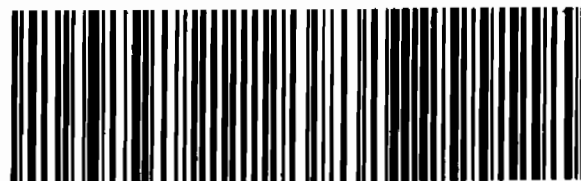


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TRKH 7209 7850 2320
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MM MASTER MM

FRI - 26FEB A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS



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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 25FEB10
ACTWGT: 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: 6B010AARDW01EA1S00

JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 25FEB10
ACTWGT: 48.0 LB MAN
CAD: 0014176/CAFE2450

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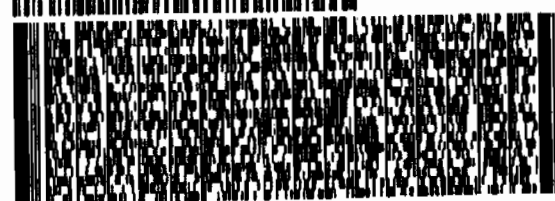
TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A0532VA00



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Express



FedEx
Express



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2 of 2
MPSH 7209 7850 2396
0263

Master 7209 7850 2385 0201

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PRIORITY OVERNIGHT

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29407
SC-US

TRKH 7209 7850 2374
0201

FRI - 26FEB A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS



ORIGIN ID: SAFA (05) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 25FEB10
ACTWGT: 49.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR1A05AGWMO

2c



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Express



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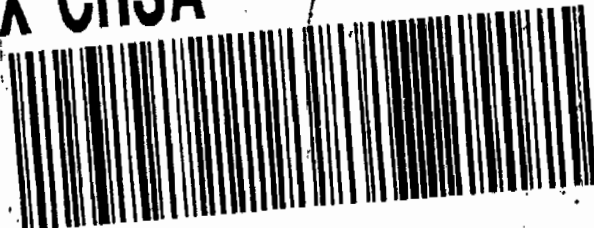
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PRIORITY OVERNIGHT

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SC-US
CHS



Emp# 133998 25FEB10 SAFA

TA00 BLDG 1237 DPU 03

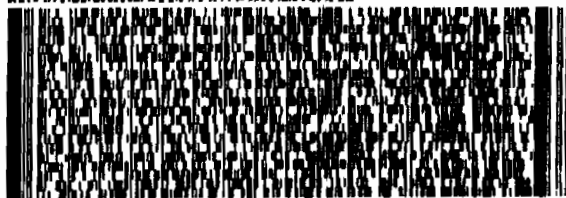
LOS ALAMOS, NM 87545
UNITED STATES US

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

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REF: 6B010AMR1A015AGWMO

2c



FedEx
Express



J09280911302223

1 of 2

TRKH 7209 7850 2308
0201
NN MASTER NN

XX CHSA

FRI - 26FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 25FEB10
ACTWGT: 50.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A05529E00

2c



FedEx
Express



J09280911302223

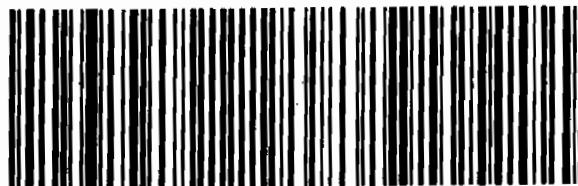
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TRKH 7209 7850 2455
0201
NN MASTER NN

XX CHSA

FRI - 26FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS



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

LOS ALAMOS, NM 87545
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SHIP DATE: 25FEB10
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BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
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CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A05529E00

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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: 25FEB10
ACTWGT: 53.0 LB MAN
CAD: 0014176/CAFE2450

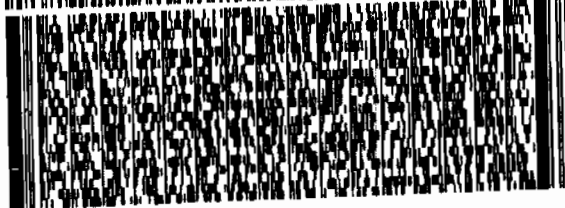
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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
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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: 25FEB10
ACTWGT: 58.0 LB MAN
CAD: 0014176/CAFE2450

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TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR3A05529E00

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PRIORITY OVERNIGHT

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29407
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CHS



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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 25FEB10
ACTWGT: 52.0 LB MAN
CAD: 0014176/CAFE2450

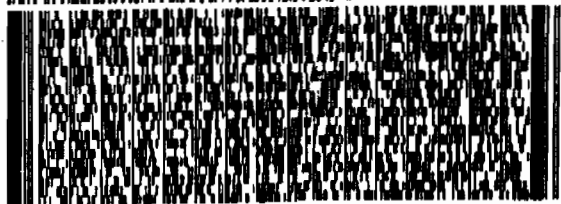
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TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AARDW01EA1S00

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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: 25FEB10
ACTWGT: 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: 6B010AMR3A05529E00

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TRK# 7209 7850 2444

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SC-US
CHS

Page 17 of 1289

ORIGIN ID: SAFA (506) 663-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 25FEB10
ACTWGT: 40.0 LB MAX
CAD: 0014176/CAFE2450
BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 68010AMR2A0515BYDO

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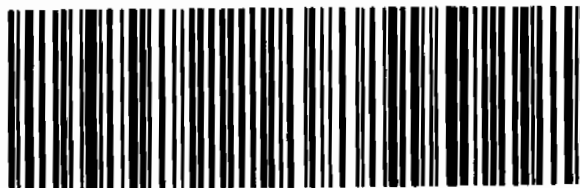


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MPS# 7209 7850 2293
Matr# 7209 7850 2282 0201

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PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS



Data Review Qualifier Flag Definition Sheet

Data Review Qualifier Definitions

Qualifier Explanation

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

< Result is less than value reported

> Result is greater than value reported

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

A The TIC is a suspected aldol-condensation product

B Target analyte was detected in the associated blank

B Metals-Either presence of analyte detected in the associated blank, or
MDL/IDL < sample value < PQL

BD Results are either below the MDC or tracer recovery is low

C Analyte has been confirmed by GC/MS analysis

D Results are reported from a diluted aliquot of the sample

d 5-day BOD-The 2:1 depletion requirement was not met for this sample

E Organics-Concentration of the target analyte exceeds the instrument calibration range

E Metals-%difference of sample and SD is >10%. Sample concentration must meet flagging criteria

H Analytical holding time was exceeded

h Preparation or preservation holding time was exceeded

J Value is estimated

N Metals-The Matrix spike sample recovery is not within specified control limits

N Organics-Presumptive evidence based on mass spectral library search to make a tentative
identification of the analyte (TIC). Quantitation is based on nearest internal standard
response factor

N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration
by 4X or more

ND Analyte concentration is not detected above the reporting limit

UI Gamma Spectroscopy-Uncertain identification

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

Z Paint Filter Test-Particulates passed through the filter, however no free liquids were observed.

LC/MS/MS PERCHLORATE ANALYSIS

**Perchlorate by LC/MSMS
Los Alamos National Laboratory (LANL)
SDG 10-2122**

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: 959012

Prep Batch Number: 959007

Sample Analysis

Sample ID	Client ID
248198001	RE36-10-7405
248198002	RE36-10-7403
248198003	RE36-10-7406
248198004	RE36-10-7404
248198005	RE36-10-7516
248198006	RE36-10-7426
248198007	RE36-10-7432
248198008	RE36-10-7431
248198009	RE36-10-7434
248198010	RE36-10-7425
248198011	RE36-10-7429
248198012	RE36-10-7433
1202056681	Interference Check Sample (ICS)
1202056676	Method Blank (MB)
1202056677	Laboratory Control Sample (LCS)

10-2122-PERLCMS

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1202056678	248198001(RE36-10-7405) Matrix Spike (MS)
1202056679	248198001(RE36-10-7405) Matrix Spike Duplicate (MSD)

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

Preparation/Analytical Method Verification

SOP Reference

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

Calibration Information

Initial Calibration

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

CCV Requirements

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

CCB Requirements

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

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 248198001 (RE36-10-7405) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS recovered Perchlorate-101 at 127% and the acceptance range is 75-125%. The high recovery may be the result of the background concentration present in the parent sample, 248198001 (RE36-10-7405), and the need to dilute all at 1:2 prior to analysis. Please see data exception report 807337.

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Page 2 of 4

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

Samples 1202056678 (RE36-10-7405MS), 1202056679 (RE36-10-7405MSD), 248198001 (RE36-10-7405), 248198002 (RE36-10-7403), 248198003 (RE36-10-7406), 248198004 (RE36-10-7404), 248198005 (RE36-10-7516) and 248198007 (RE36-10-7432) were diluted to bring the over range concentrations within the calibration range. The diluted analyses are reported.

Sample Re-extraction/Re-analysis

Samples 248198006 (RE36-10-7426) and 248198008 (RE36-10-7431) were re-analyzed to confirm the potential of carryover from the previous sample. The re-analyses are reported.

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

Data exception report 807337 was generated for this SDG.

The MS recovered Perchlorate-101 at 127% and the acceptance range is 75-125%. The high recovery may be the result of the background concentration present in the parent sample, 248198001 (RE36-10-7405), and the need to dilute all at 1:2 prior to analysis.

Manual Integrations

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

10-2122-PERLCMS

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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: Sebastian M. Mauer

Date: 03/23/10

10-2122-PERLCMS

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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: 259007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7405

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198001

Date Filtered: 12-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	1.21	4.85	13.6	ug/kg		2	20-MAR-10 19:00	per0320012a
	Perchlorate Isotope Ratio			3.18			2	20-MAR-10 19:00	per0320012a
14797-73-0	Perchlorate-101	1.21	4.85	12.9	ug/kg		2	20-MAR-10 19:00	per0320012a
	Perchlorate-O(18)			12.0	ug/kg		2	20-MAR-10 19:00	per0320012a

[^] 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: 259007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7403

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198002

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

% Solids: 86

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	5.82	23.3	59.1	ug/kg		10	20-MAR-10 19:20	per0320015a
	Perchlorate Isotope Ratio			3.14			10	20-MAR-10 19:20	per0320015a
14797-73-0	Perchlorate-101	5.82	23.3	57.0	ug/kg		10	20-MAR-10 19:20	per0320015a
	Perchlorate-O(18)			60.5	ug/kg		10	20-MAR-10 19:20	per0320015a

[^] 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: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7406

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198003

Date Filtered: 12-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	1.12	4.47	12.4	ug/kg		2	20-MAR-10 19:26	per0320016a
	Perchlorate Isotope Ratio			3.09			2	20-MAR-10 19:26	per0320016a
14797-73-0	Perchlorate-101	1.12	4.47	12.2	ug/kg		2	20-MAR-10 19:26	per0320016a
	Perchlorate-O(18)			11.7	ug/kg		2	20-MAR-10 19:26	per0320016a

[^] 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: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7404

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198004

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 88

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	5.68	22.7	88.2	ug/kg		10	20-MAR-10 19:33	per0320017a
	Perchlorate Isotope Ratio			3.07			10	20-MAR-10 19:33	per0320017a
14797-73-0	Perchlorate-101	5.68	22.7	87.0	ug/kg		10	20-MAR-10 19:33	per0320017a
	Perchlorate-O(18)			58.8	ug/kg		10	20-MAR-10 19:33	per0320017a

[^] 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: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7516

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198005

Date Filtered: 12-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	1.22	4.88	13.0	ug/kg		2	20-MAR-10 19:39	per0320018a
	Perchlorate Isotope Ratio			3.11			2	20-MAR-10 19:39	per0320018a
14797-73-0	Perchlorate-101	1.22	4.88	12.6	ug/kg		2	20-MAR-10 19:39	per0320018a
	Perchlorate-O(18)			12.7	ug/kg		2	20-MAR-10 19:39	per0320018a

[^] 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: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7426

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198006

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

% Solids: 88

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.571	2.28	3.19	ug/kg		1	20-MAR-10 19:46	per0320019a
	Perchlorate Isotope Ratio			3.01			1	20-MAR-10 19:46	per0320019a
14797-73-0	Perchlorate-101	.571	2.28	3.20	ug/kg		1	20-MAR-10 19:46	per0320019a
	Perchlorate-O(18)			6.11	ug/kg		1	20-MAR-10 19:46	per0320019a

[^] 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: 259007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7432

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198007

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 86

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	1.16	4.63	17.5	ug/kg		2	20-MAR-10 19:52	per0320020a
	Perchlorate Isotope Ratio			3.06			2	20-MAR-10 19:52	per0320020a
14797-73-0	Perchlorate-101	1.16	4.63	17.3	ug/kg		2	20-MAR-10 19:52	per0320020a
	Perchlorate-O(18)			11.7	ug/kg		2	20-MAR-10 19:52	per0320020a

[^] 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: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7431

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198008

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 77

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.65	2.6	9.12	ug/kg		1	20-MAR-10 19:59	per0320021a
	Perchlorate Isotope Ratio			3.09			1	20-MAR-10 19:59	per0320021a
14797-73-0	Perchlorate-101	.65	2.6	8.93	ug/kg		1	20-MAR-10 19:59	per0320021a
	Perchlorate-O(18)			6.63	ug/kg		1	20-MAR-10 19:59	per0320021a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

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: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7434

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198009

Date Filtered: 12-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	.648	2.59	2.21	ug/kg	J	1	19-MAR-10 15:49	per0319038a
	Perchlorate Isotope Ratio			3.01			1	19-MAR-10 15:49	per0319038a
14797-73-0	Perchlorate-101	.648	2.59	2.13	ug/kg	J	1	19-MAR-10 15:49	per0319038a
	Perchlorate-O(18)			6.22	ug/kg		1	19-MAR-10 15:49	per0319038a

[^] 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: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7425

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198010

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 78

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.642	2.57	5.06	ug/kg		1	19-MAR-10 15:56	per0319039a
	Perchlorate Isotope Ratio			3.03			1	19-MAR-10 15:56	per0319039a
14797-73-0	Perchlorate-101	.642	2.57	4.88	ug/kg		1	19-MAR-10 15:56	per0319039a
	Perchlorate-O(18)			6.20	ug/kg		1	19-MAR-10 15:56	per0319039a

[^] 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: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7429

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198011

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 70

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.711	2.85	4.99	ug/kg		1	19-MAR-10 16:03	per0319040a
	Perchlorate Isotope Ratio			3.02			1	19-MAR-10 16:03	per0319040a
14797-73-0	Perchlorate-101	.711	2.85	4.82	ug/kg		1	19-MAR-10 16:03	per0319040a
	Perchlorate-O(18)			6.84	ug/kg		1	19-MAR-10 16:03	per0319040a

[^] 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: 959007
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7433
 Date Received: 26-FEB-10
 GEL Job No (SDG): 10-2122
 GEL Sample ID: 248198012
 Date Filtered: 12-MAR-10
 Injection Volume (uL): 20
 %Solids: 71

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.7	2.8	2.90	ug/kg		1	19-MAR-10 16:11	per0319041a
	Perchlorate Isotope Ratio			3.06			1	19-MAR-10 16:11	per0319041a
14797-73-0	Perchlorate-101	.7	2.8	2.76	ug/kg	J	1	19-MAR-10 16:11	per0319041a
	Perchlorate-O(18)			6.82	ug/kg		1	19-MAR-10 16:11	per0319041a

[^] 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

QUALITY CONTROL SUMMARY

Perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL GEL Job No. (SDG): 10-2122

Extract Batch Code: 959007 Date Filtered: 12-MAR-10

Matrix: SOIL Sample ID: 1202056677

Analyte^	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.03	ug/kg	101		70 - 130
Perchlorate Isotope Ratio		3.05				-
Perchlorate-101	2.00	1.94	ug/kg	96.8		70 - 130
Perchlorate-O(18)		4.91	ug/kg			-

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

Perchlorate Interference Check Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-2122

Extract Batch Code: 959007

Date Filtered: 12-MAR-10

Matrix: SOIL

Sample ID: 1202056681

Analyte^	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.14	ug/kg	107		70 - 130
Perchlorate Isotope Ratio		2.88				
Perchlorate-101	2.00	2.16	ug/kg	108		70 - 130
Perchlorate-O(18)		5.05	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\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319014a

Date: 19-Mar-2010

Time: 13:00:23

ID: 1202056681

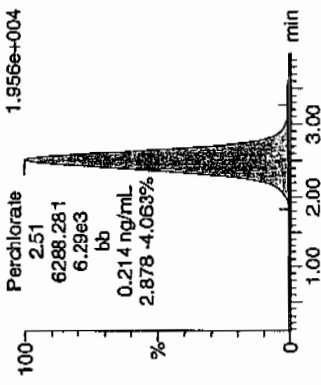
Vial: 1:3,C

LANC | 959012 | 5020 | 105 | 11

603-23-10

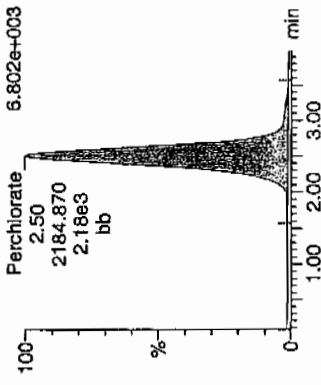
Perchlorate

MRM of 3 channels, ES-
99 > 83



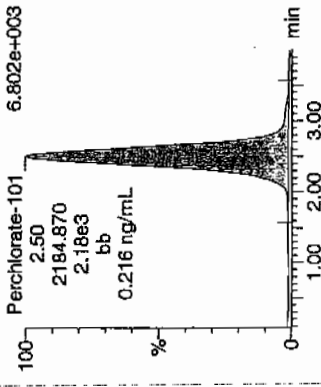
Perchlorate

MRM of 3 channels, ES-
101 > 85



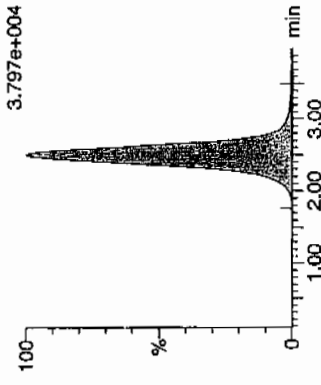
Perchlorate-101

MRM of 3 channels, ES-
101 > 85



Perchlorate-O(18)

MRM of 3 channels, ES-
107 > 89



ID	Name	Trace	Area	Response	Units	ModTime	10/11	3/20/10	Dev	Syn	10/11	3/20/10
1202056681	Perchlorate	99 > 83	2.51	6288.281	bb							
1202056681	Perchlorate-101	101 > 85	2.50	2184.870	bb							
1202056681	Perchlorate-O(18)	107 > 89	2.50	12272.666	bb							

$$\frac{6288.281}{2184.870} = 2.8781$$

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

Extract Batch Code: 959007

GEL MS/PS ID: 1202056678

GEL MSD/PSD ID: 1202056679

GEL Job No (SDG): 10-2122

Date Extracted: 12-MAR-10

Client ID: RE36-10-7405

QC Type: MS

Compound [^]	Spike Added	Sample Conc	Units	MS Conc	MS Rec	#	MSD Conc	MSD Rec	#	RPD	#	RPD Limit	Recovery Limit
Perchlorate	2.42	13.6	ug/kg	16.1	105		15.4	75.2		4.63		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		3.05			3.09			0			-
Perchlorate-101	2.42	12.9	ug/kg	16.0	127 *		15.1	89.2		5.96		30	75 - 125
Perchlorate-O(18)	0	12.0	ug/kg	13.0			13			.177			-

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

Comments:

Perchlorate Initial Calibration Blank

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-2122

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	19-MAR-10	per0319001a	IPB001
Perchlorate-101	0.00	0	NA	19-MAR-10	per0319001a	IPB001
Perchlorate	0.00	0	NA	19-MAR-10	per0319002a	IPB001
Perchlorate-101	0.00	0	NA	19-MAR-10	per0319002a	IPB001
Perchlorate	0.00	0	NA	20-MAR-10	per0320001a	IPB001
Perchlorate-101	0.00	0	NA	20-MAR-10	per0320001a	IPB001
Perchlorate	0.00	0	NA	20-MAR-10	per0320002a	IPB001
Perchlorate-101	0.00	0	NA	20-MAR-10	per0320002a	IPB001

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

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per031910a.mdb 20 Mar 2010 13:21:43
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per031910a.cdb 20 Mar 2010 13:22:42

Name: per0319001a

Date: 19-Mar-2010

Time: 11:27:17

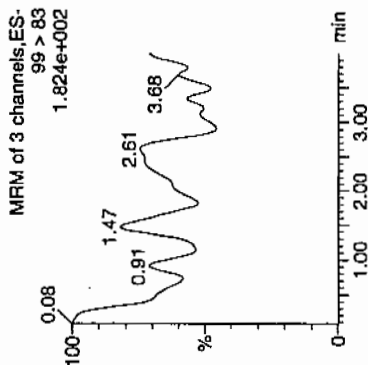
ID: IPB007

Vial: 1:1A

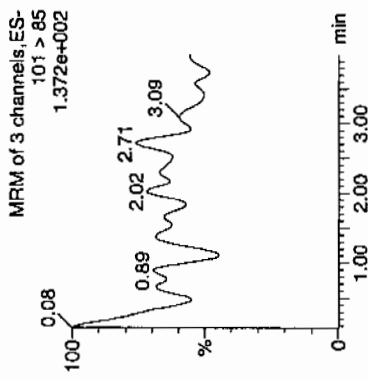
IPB001
Handwritten 3/10

03-20-10

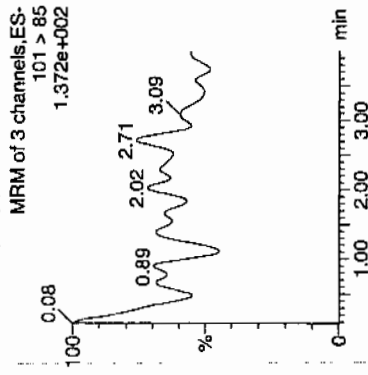
Perchlorate



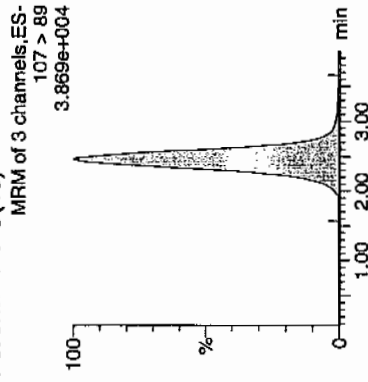
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
IPB007	Perchlorate	99 > 83											0.00
IPB007	Perchlorate-101	101 > 85	2.46	12680.074	12680.074	bb			0.5220	104.41	4.41	1666.8...	
IPB007	Perchlorate-O(18)	107 > 89											

IPB001
Handwritten 3/10

Lot 5/12/10

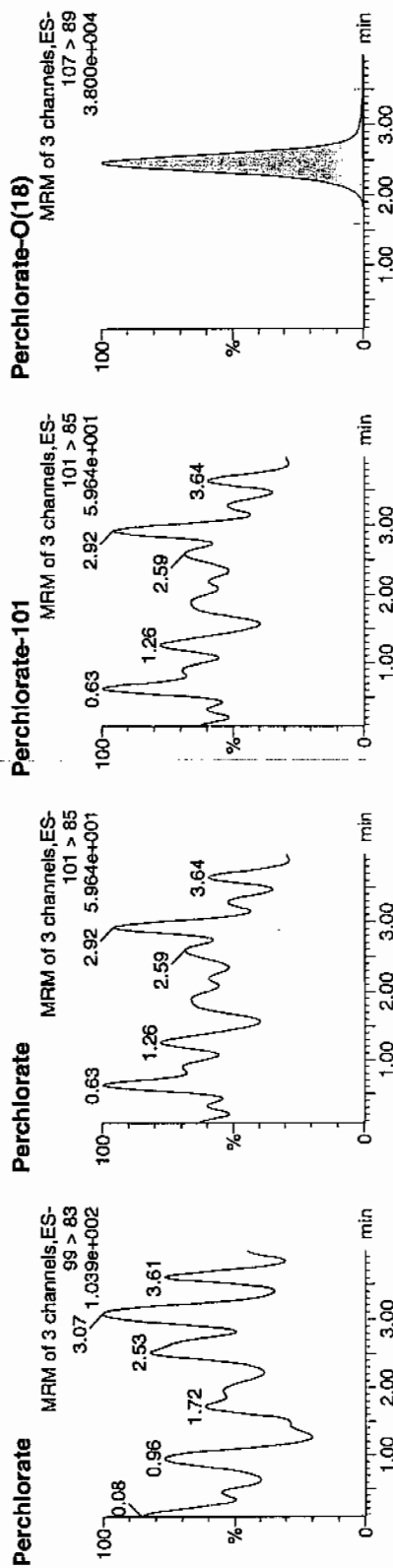
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319002a
Date: 19-Mar-2010
Time: 11:34:49
ID: IPB001
Vial: 1:1,A

003-20-10



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	2.46	12482.422	12482.422	bb			0.5139	102.78	✓	2.78	1649.8...
IPB001	Perchlorate-O(18)	107 > 89											

uA77
3/22/10

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

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

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

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

Name: per0320001a

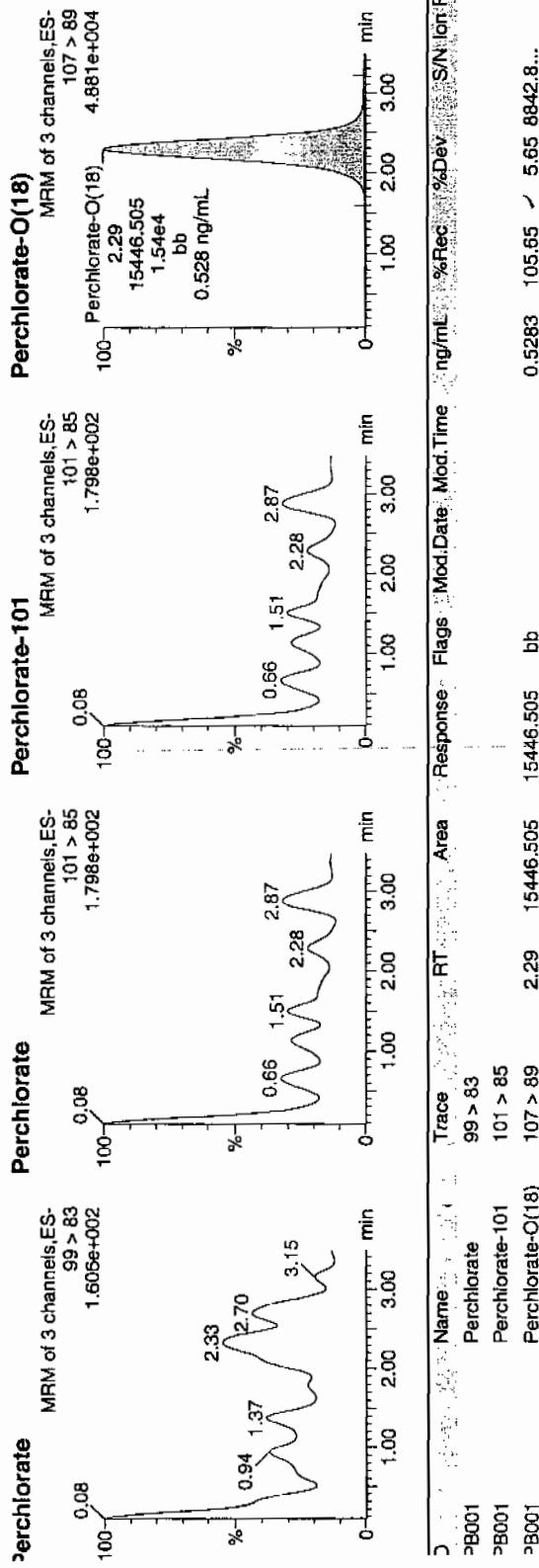
Date: 20-Mar-2010

Time: 17:47:44

D: IPB001

/lat: 1:1,A

032110



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion.Ratio
PB001	Perchlorate	99 > 83										0.00
PB001	Perchlorate-101	101 > 85										
PB001	Perchlorate-O(18)	107 > 89	2.29	15446.505	bb			0.5283	105.65	✓ 5.65	8842.8...	

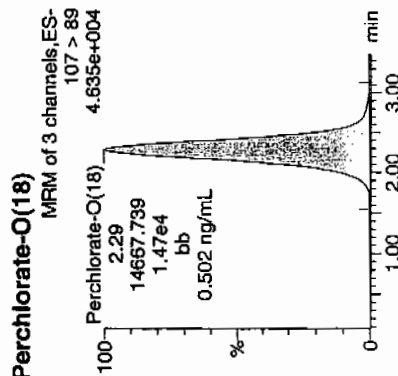
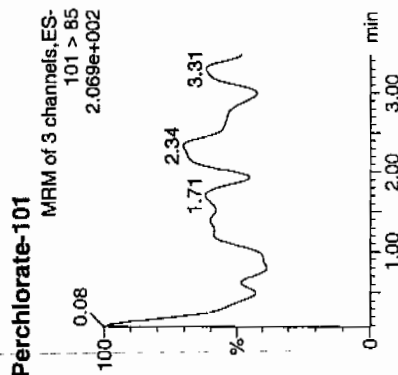
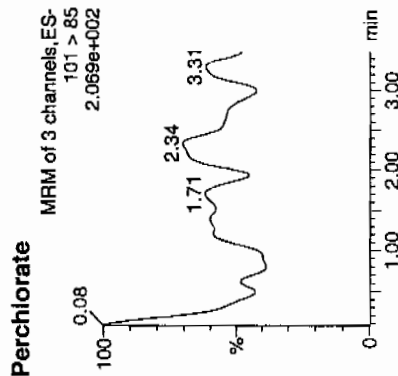
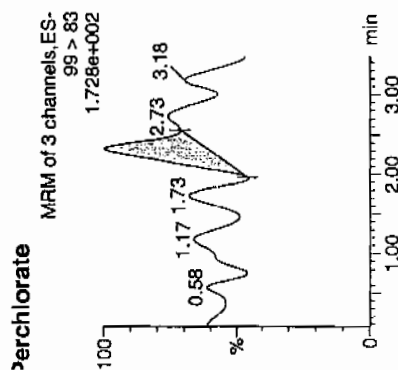
4077
3/22/10

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

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

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

Name: per0320002a
Date: 20-Mar-2010
Time: 17:54:35
D: IPB001
/ial: 1:1,A



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
PE001	Perchlorate	99 > 83	2.33	19.703	19.703	bb			0.0006			8.168	0.00
PE001	Perchlorate-101	101 > 85											
PE001	Perchlorate-O(18)	107 > 89	2.29	14667.739	14667.739	bb			0.5016	100.32	0.32	6305.6...	

not
3/26/10

Form 4

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-2122

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	19-MAR-10	per0319008a	IPB002
Perchlorate-101	0.00	0	NA	19-MAR-10	per0319008a	IPB002
Perchlorate	0.00	0	NA	19-MAR-10	per0319010a	IPB003
Perchlorate-101	0.00	0	NA	19-MAR-10	per0319010a	IPB003
Perchlorate	0.00	0	NA	19-MAR-10	per0319023a	IPB004
Perchlorate-101	0.00	0	NA	19-MAR-10	per0319023a	IPB004
Perchlorate	0.00	0	NA	19-MAR-10	per0319036a	IPB005
Perchlorate-101	0.00	0	NA	19-MAR-10	per0319036a	IPB005
Perchlorate	0.00	0	NA	19-MAR-10	per0319042a	IPB006
Perchlorate-101	0.00	0	NA	19-MAR-10	per0319042a	IPB006
Perchlorate	0.00	0	NA	19-MAR-10	per0319049a	IPB007
Perchlorate-101	0.00	0	NA	19-MAR-10	per0319049a	IPB007
Perchlorate	0.00	0	NA	20-MAR-10	per0320008a	IPB002

Form 4

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-2122

Lab Name: General Engineering Laboratories

Lab Code: GEL

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

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate-101	0.00	0	NA	20-MAR-10	per0320008a	IPB002
Perchlorate	0.00	0	NA	20-MAR-10	per0320010a	IPB003
Perchlorate-101	0.00	0	NA	20-MAR-10	per0320010a	IPB003
Perchlorate	0.00	0	NA	20-MAR-10	per0320023a	IPB004
Perchlorate-101	0.00	0	NA	20-MAR-10	per0320023a	IPB004

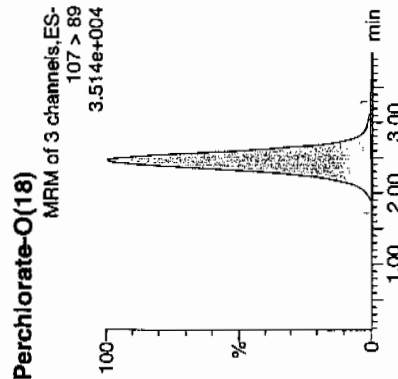
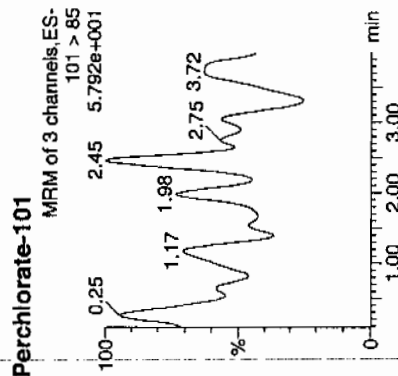
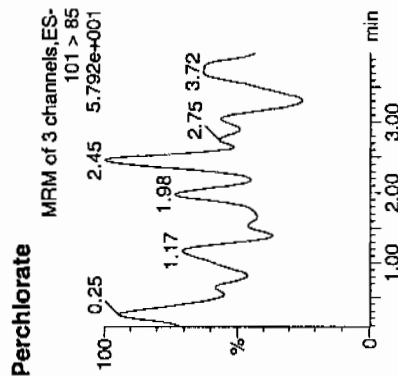
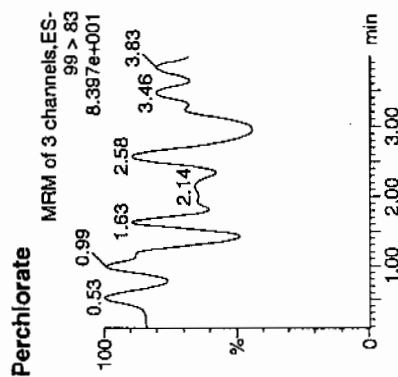
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319008a
Date: 19-Mar-2010
Time: 12:17:20
ID: IPB002
Vial: 1:1,A

03-20-10



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	2.45	11463.639	11463.639	bb			0.4720	94.39	-5.61	3179.8...	

4477
3/22/10

3EL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

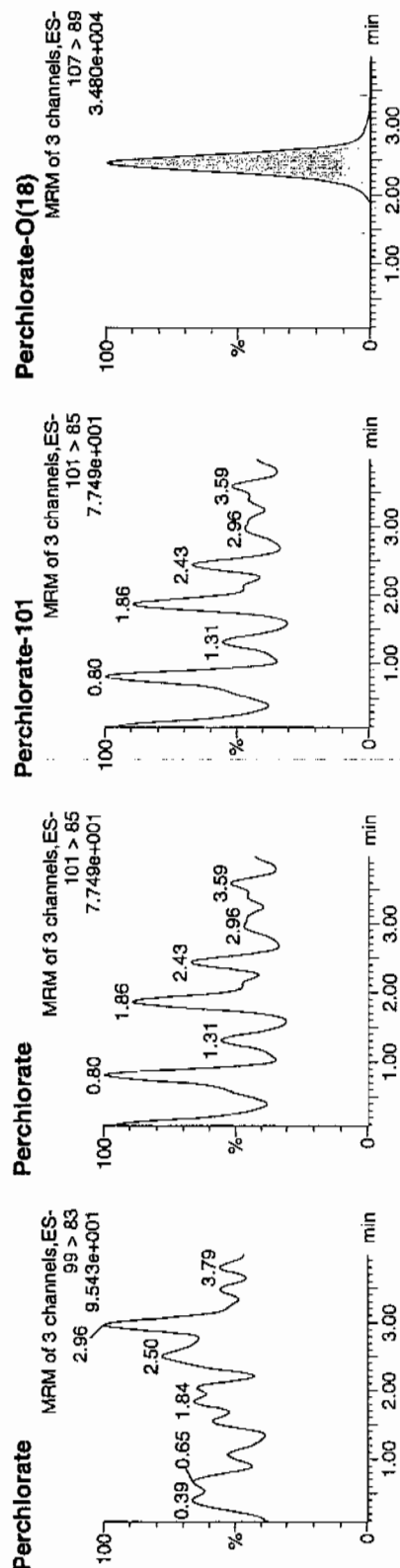
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319010a
Date: 19-Mar-2010
Time: 12:31:39
ID: IPB003
Vial: 1:1,A

3/20/10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB003	Perchlorate	99 > 83											0.00
IPB003	Perchlorate-101	101 > 85											
IPB003	Perchlorate-O(18)	107 > 89	2.45	11371.736	11371.736	bb			0.4682	93.63	-6.37	1451.8...	

Mod
3/22/10

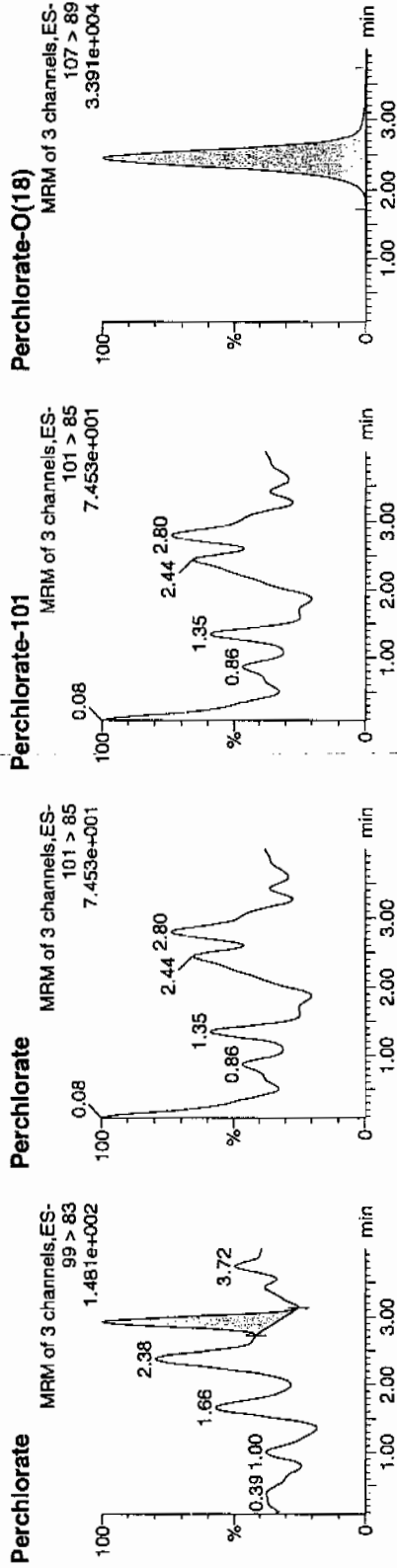
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319023a
Date: 19-Mar-2010
Time: 14:04:02
ID: IPB004
Vial: 1:1,A

07-20-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB004	Perchlorate	99 > 83	2.92	17.504	17.504	bb			0.0006			18.535	0.00
IPB004	Perchlorate-101	101 > 85											
IPB004	Perchlorate-O(18)	107 > 89	2.45	11083.563	11083.563	bb			0.4563	91.26	-8.74	1886.8...	

107 > 89
3/22/10

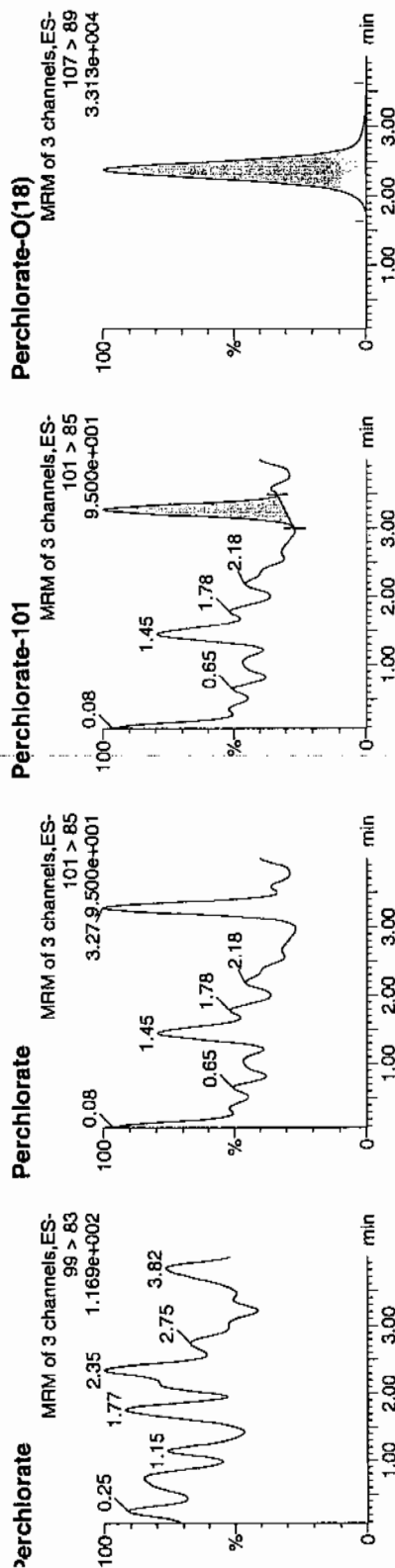
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319036a
Date: 19-Mar-2010
Time: 15:35:43
D: IPB005
Fial: 1:1,A

03-20-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB005	Perchlorate	99 > 83											
IPB005	Perchlorate-101	101 > 85	3.27	12.941	12.941	bb			0.0013			24.464	
IPB005	Perchlorate-O(18)	107 > 89	2.38	10833.422	10833.422	bb			0.4460	89.20	-10.80	1255.1...	

14677
3/22/10

Quantify Sample Report

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

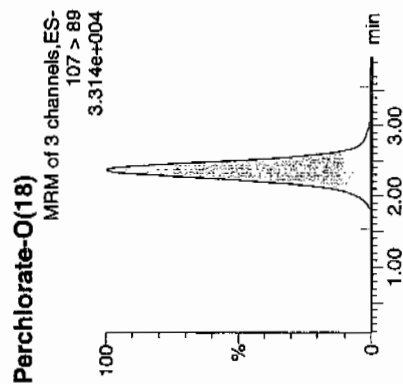
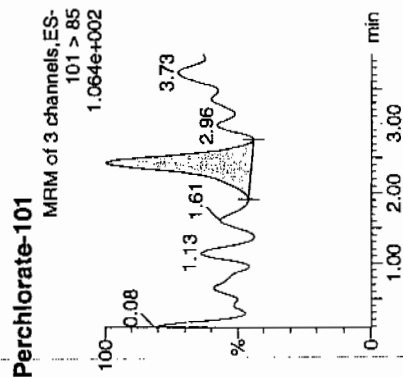
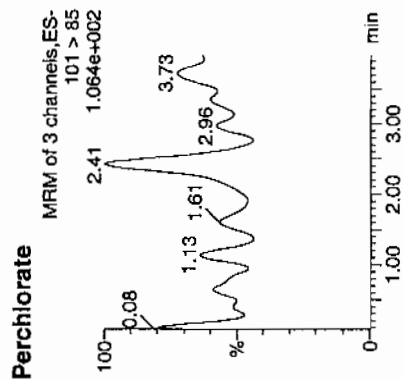
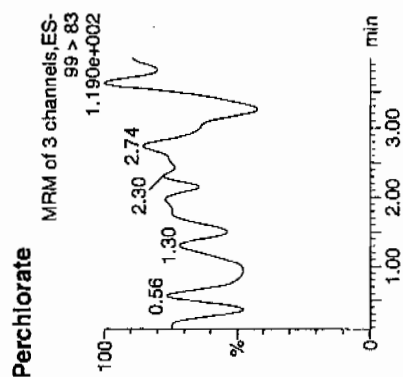
Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319042a

Date: 19-Mar-2010

Time: 16:18:17

ID: IPB006



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N Ion Ratio
PB006	Perchlorate	99 > 83										0.00
PB006	Perchlorate-101	101 > 85	2.41	17.467	17.467	bb			0.0017			9.638
PB006	Perchlorate-O(18)	107 > 89	2.36	10841.096	10841.096	bb			0.4463	89.26	-10.74	2276.3...

not
3/22/20

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

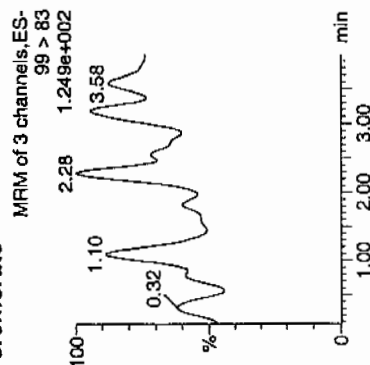
Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

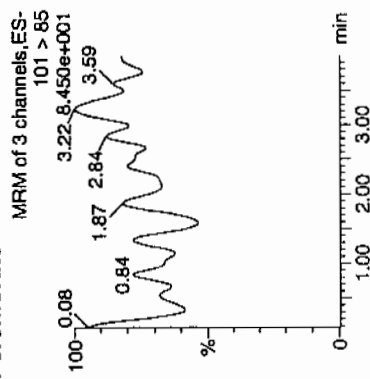
Name: per0319049a
Date: 19-Mar-2010
Time: 17:08:58
ID: IPB007
Vial: 1:1,A

03-20-10

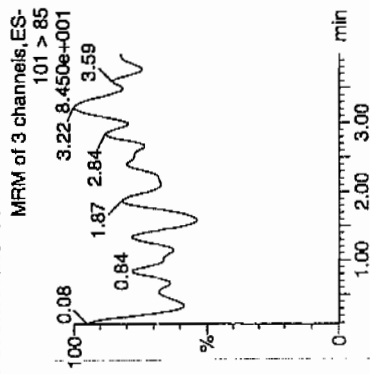
Perchlorate



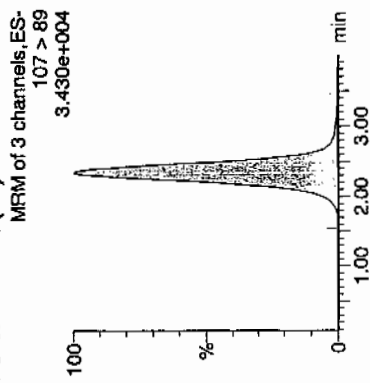
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB007	Perchlorate	99 > 83											0.00
IPB007	Perchlorate-101	101 > 85											
IPB007	Perchlorate-O(18)	107 > 89	2.35	11030.373	11030.373	bb			0.4541	90.82	-9.18	1878.9...	

14077
3/20/10

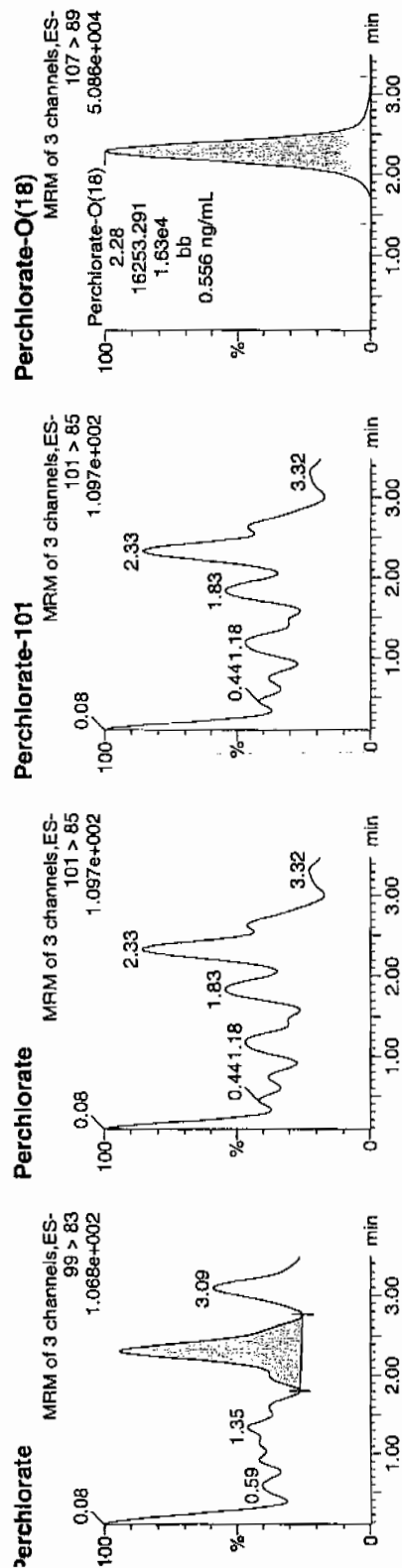
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

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

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

03-21-10



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
PB002	Perchlorate	99 > 83	2.32	24,778	24,778	bb			0.0007			4.872	0.00
PB002	Perchlorate-101	101 > 85											
PB002	Perchlorate-O(18)	107 > 89	2.28	16253.291	16253.291	bb			0.5558	111.17	11.17	3630.5...	

4.872
3/22/10

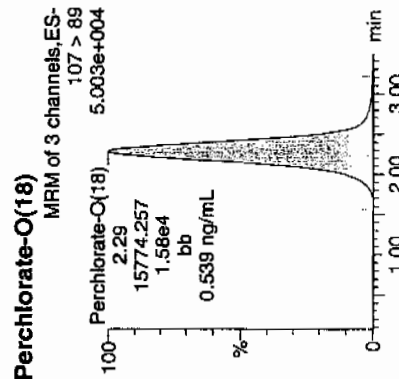
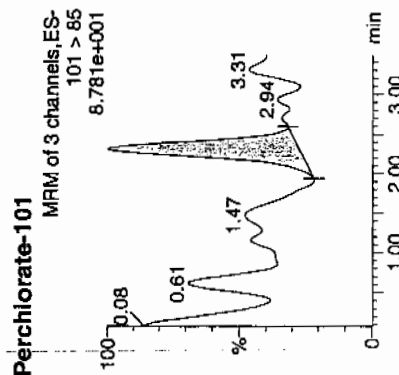
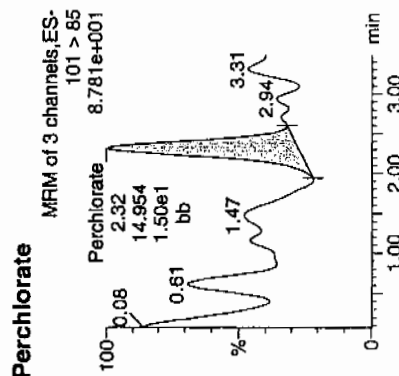
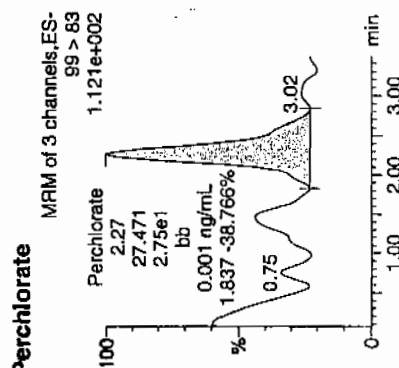
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

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

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

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

03-21-10



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

0.001
2.003e3
1.58e4
3/22/10

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

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

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

Name: per0320023a

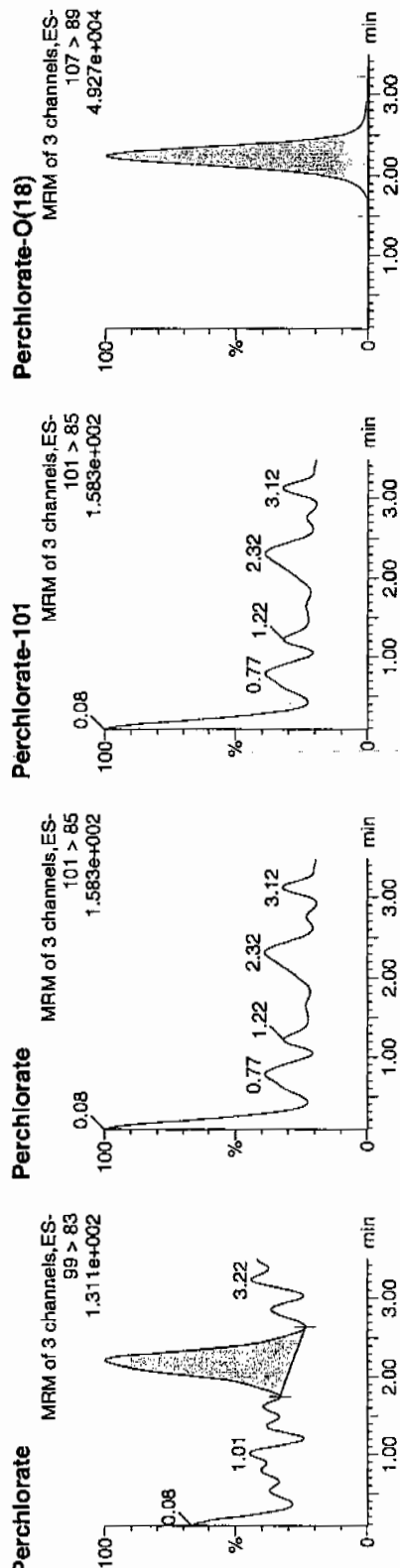
Date: 20-Mar-2010

Time: 20:12:28

D: IPB004

/lat: 1:1,A

03-21-10



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

4.29
3/24/10

Nairb.rcf

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

Updated 20 April '95

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

QUANTO ULTIMA: nairb 01.08.08.cal

Calibration Report - MS1 Static

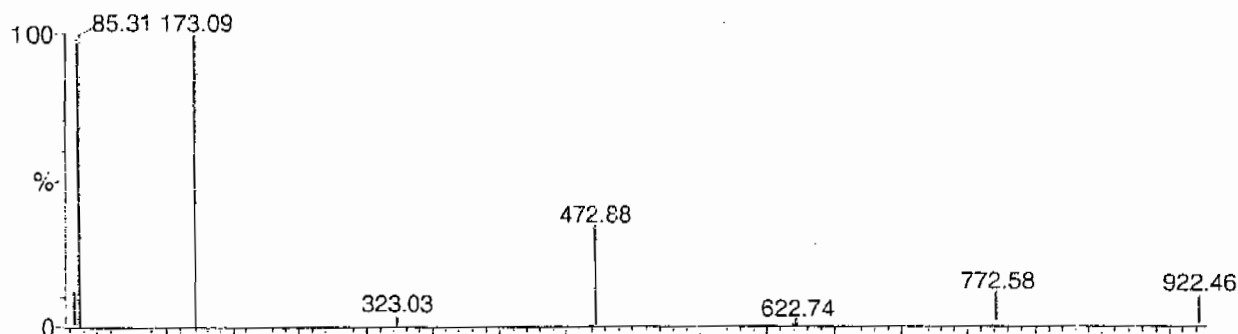
Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

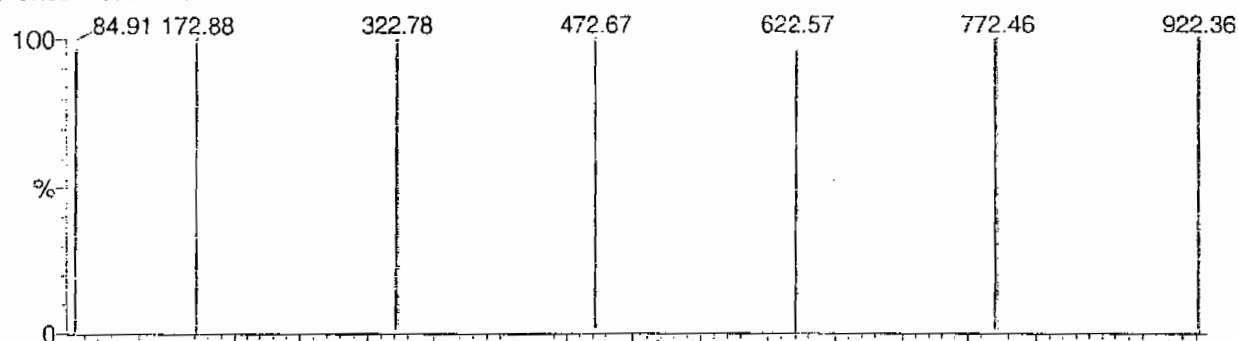
POINTS HIGHLIGHTED BY CURVED 01-07-08

Data file: STATMS1 - Uncalibrated

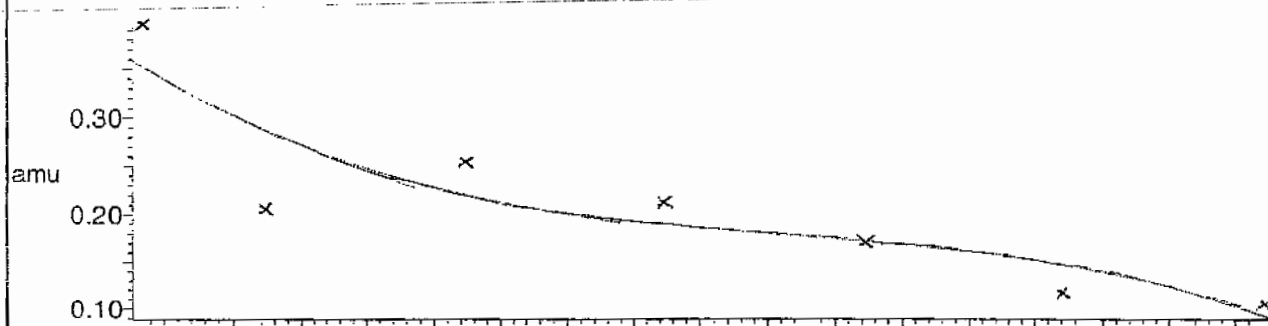
7 matches of 7 tested references



Reference file: Nairb

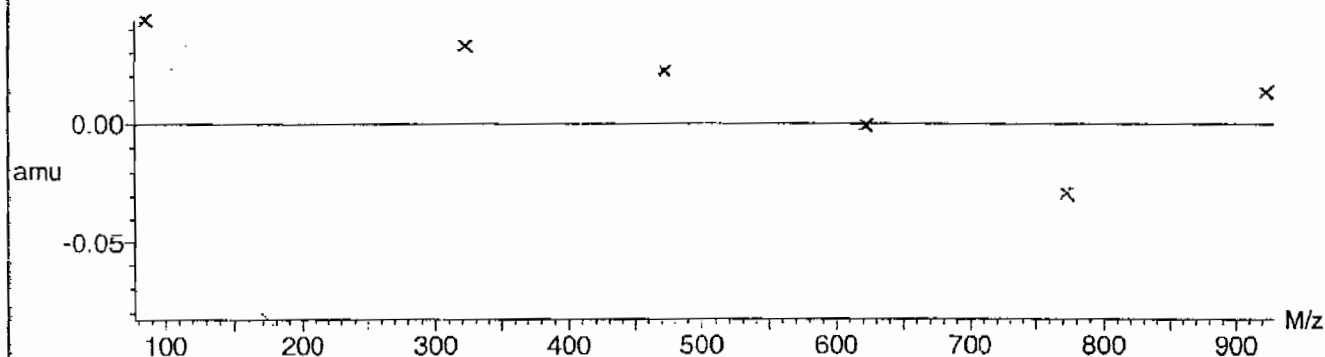


Mass difference (Raw - Ref mass)



Residuals

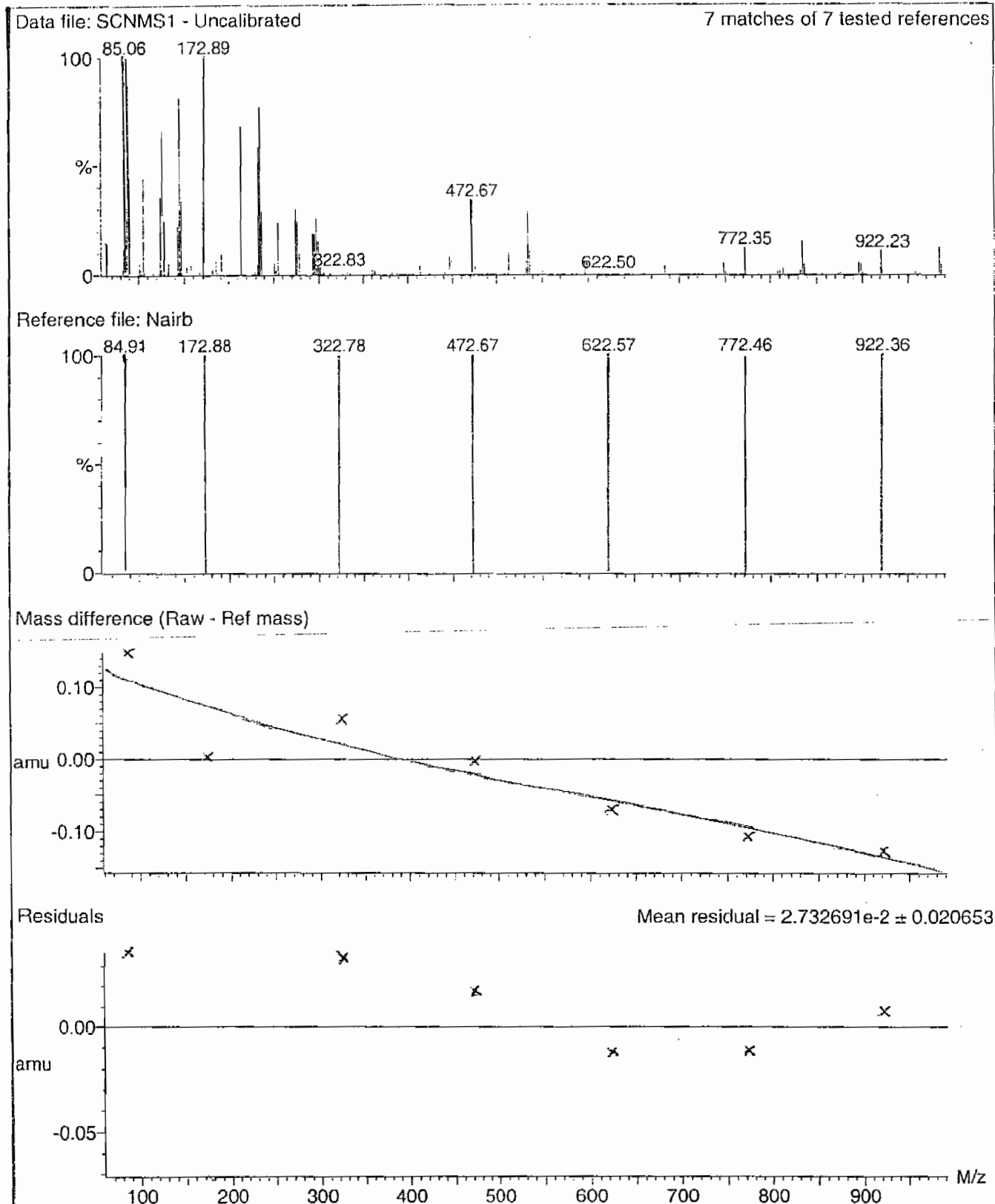
Mean residual = $3.212012 \times 10^{-2} \pm 0.024108$



Calibration Report - MS1 Scanning

Page 1 of 1

Printed: Tue Jan 08 12:20:09 2008



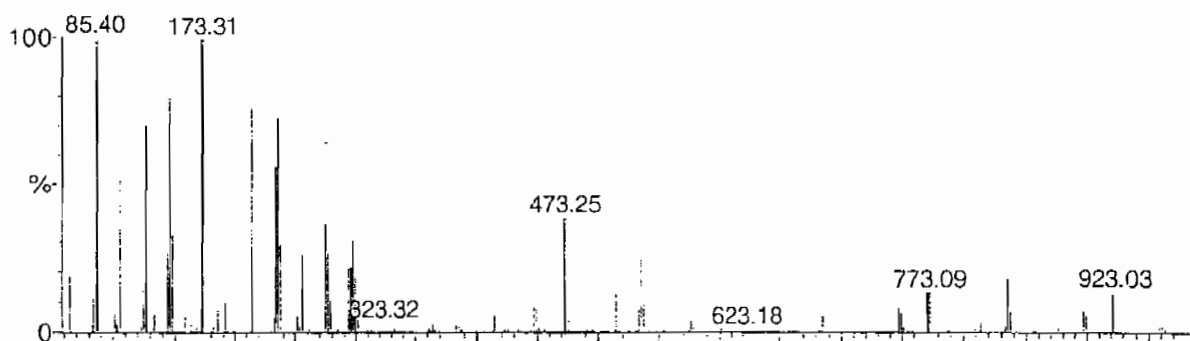
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

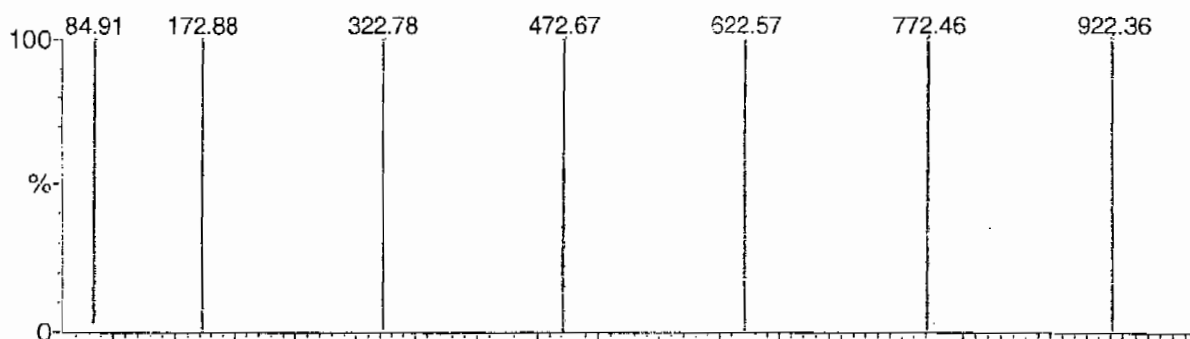
Printed: Tue Jan 08 12:21:04 2008

Data file: FASTMS1 - Uncalibrated

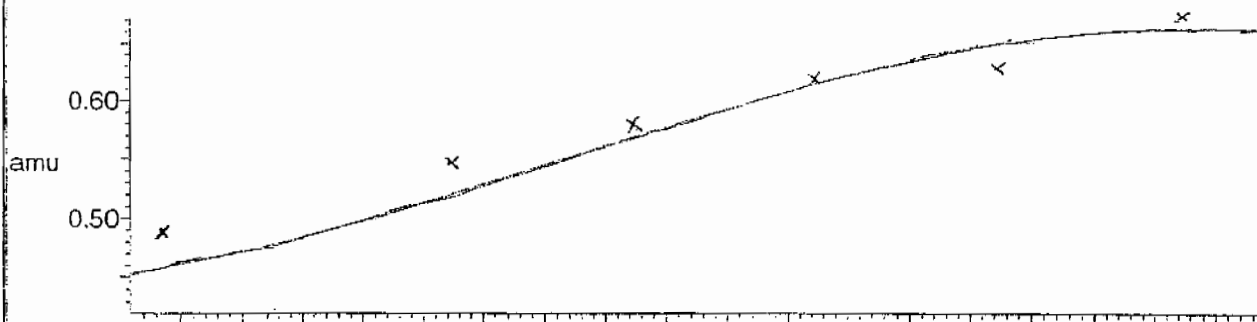
7 matches of 7 tested references



Reference file: Nairb

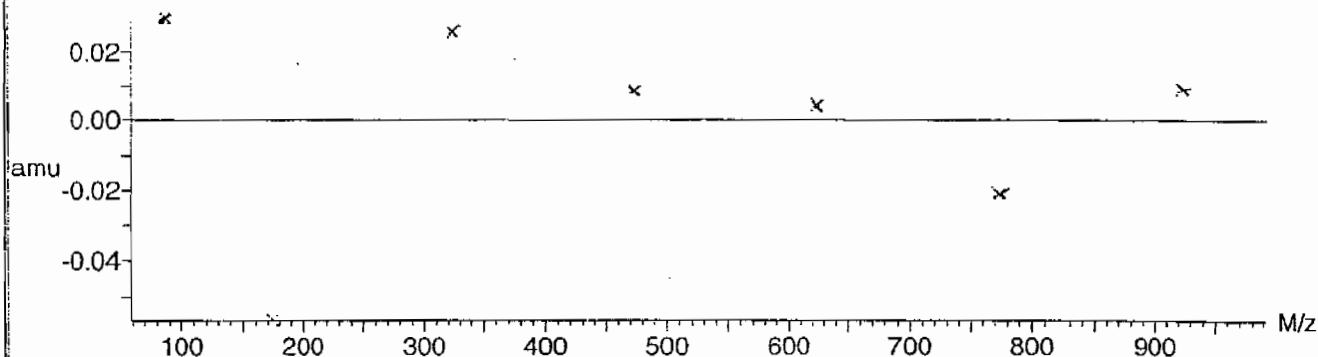


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $2.224580e-2 \pm 0.016544$

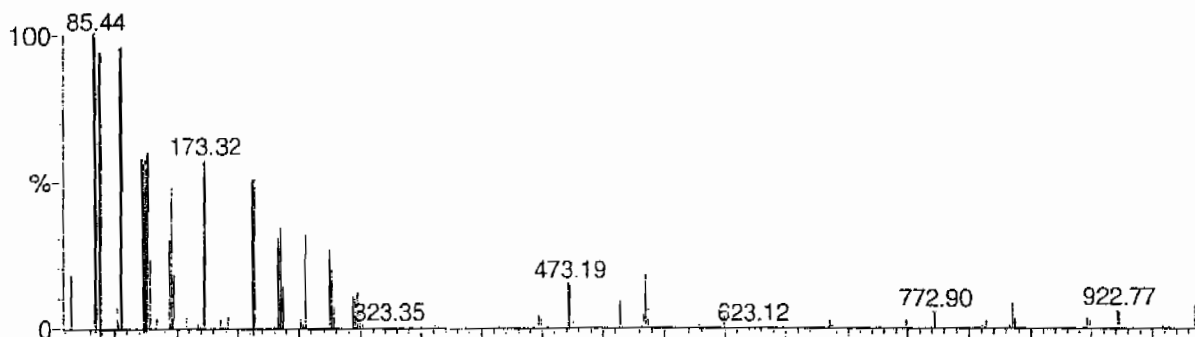


Calibration Report - MS2 Scan Speed Compensation

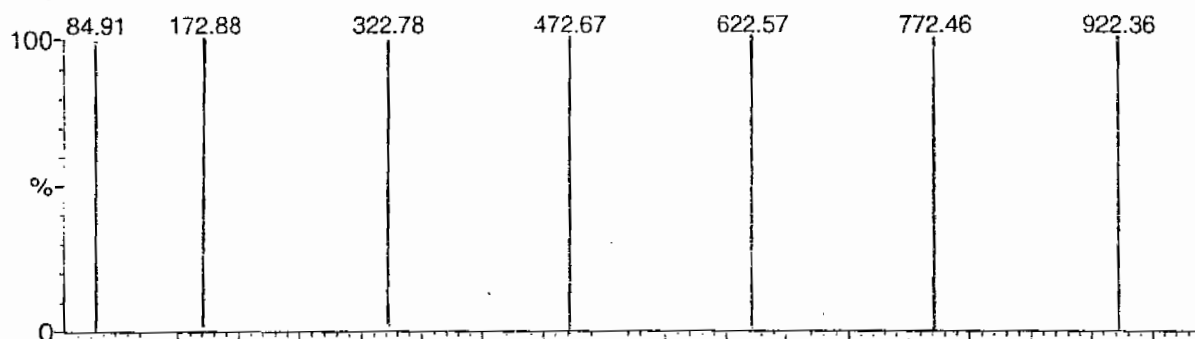
Page 1 of 1

Printed: Tue Jan 08 12:23:51 2008

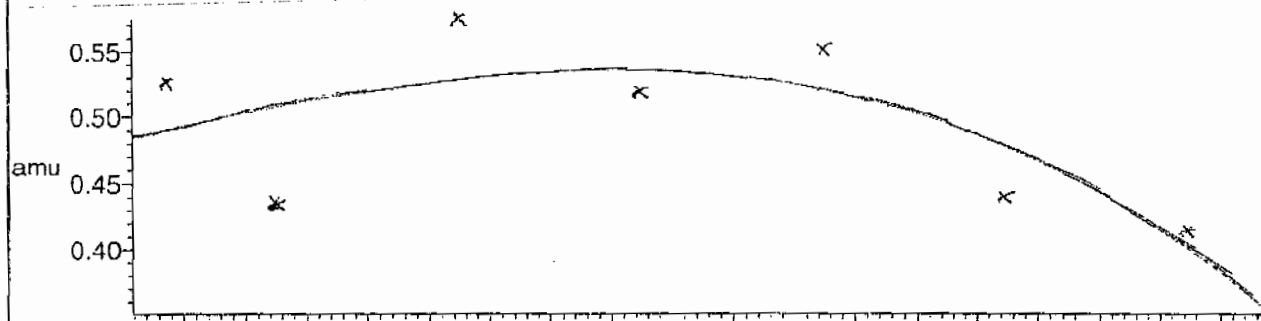
Data file: FASTMS2 - Uncalibrated 7 matches of 7 tested references



Reference file: Nairb

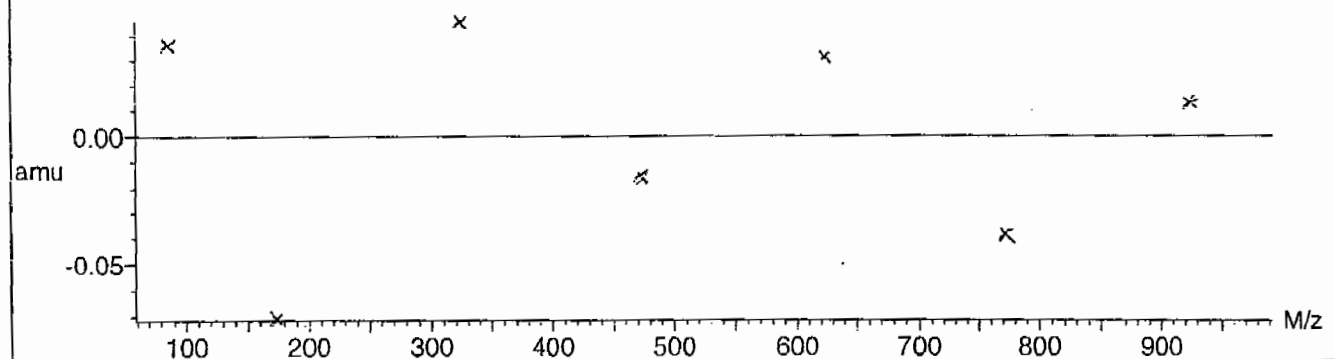


Mass difference (Raw - Ref mass)



Residuals

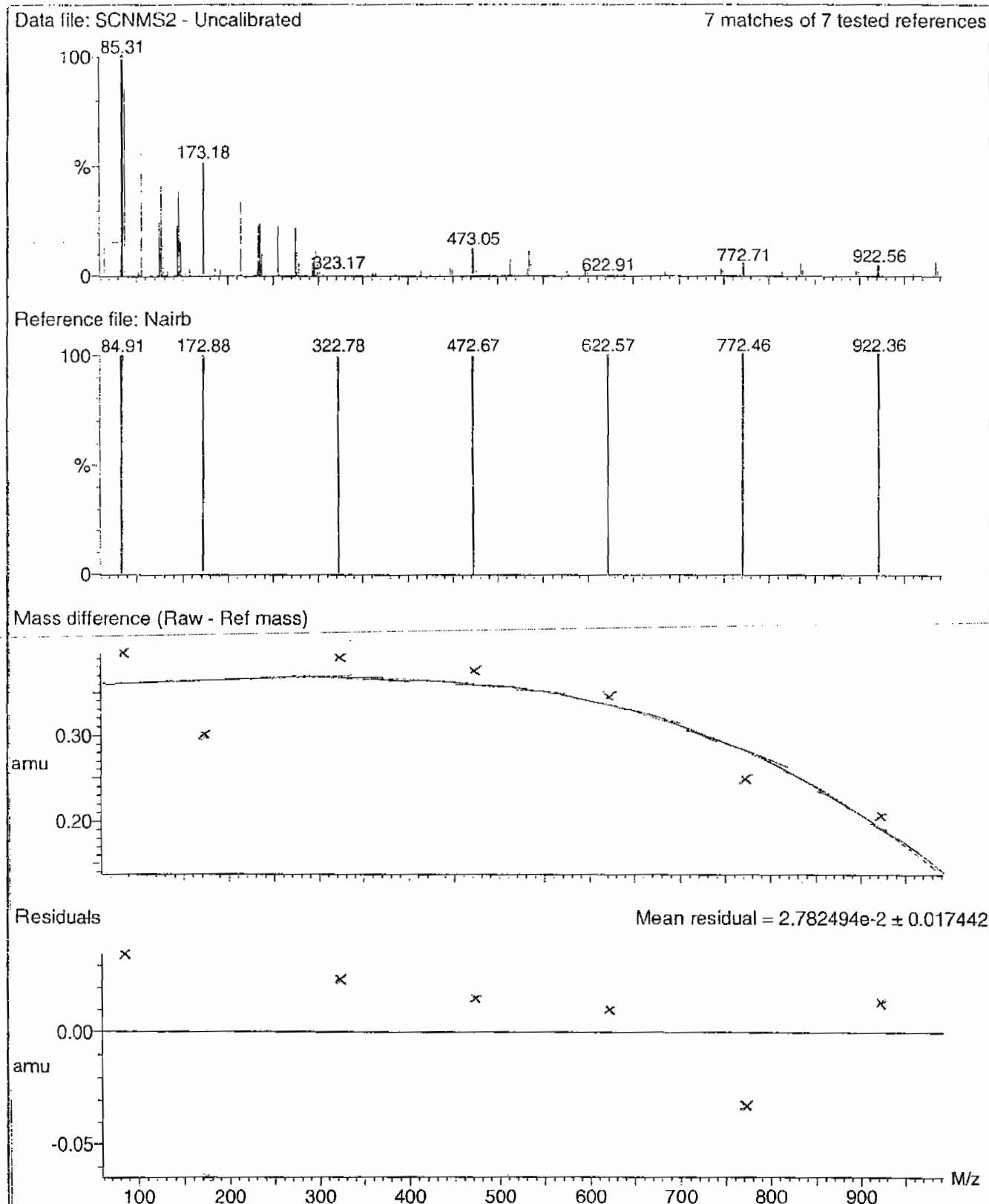
Mean residual = $3.598289 \times 10^{-2} \pm 0.017899$



Calibration Report - MS2 Scanning

Page 1 of 1

Printed: Tue Jan 08 12:22:56 2008



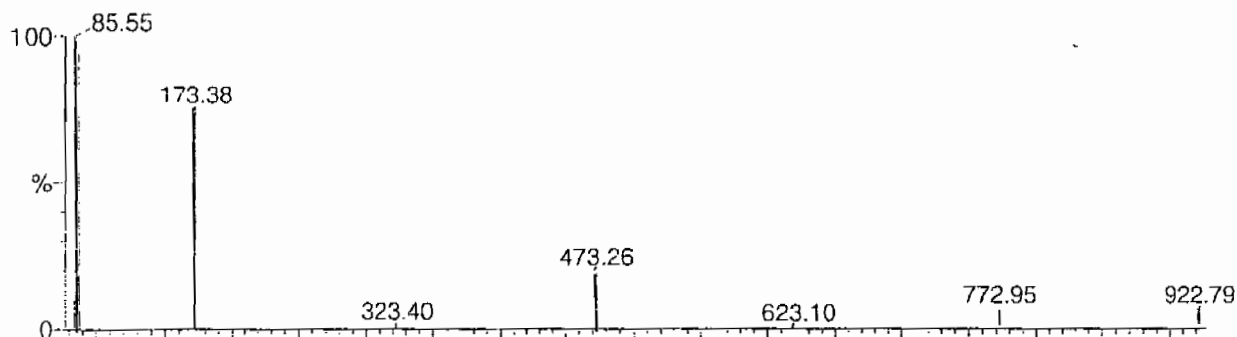
Calibration Report - MS2 Static

Page 1 of 1

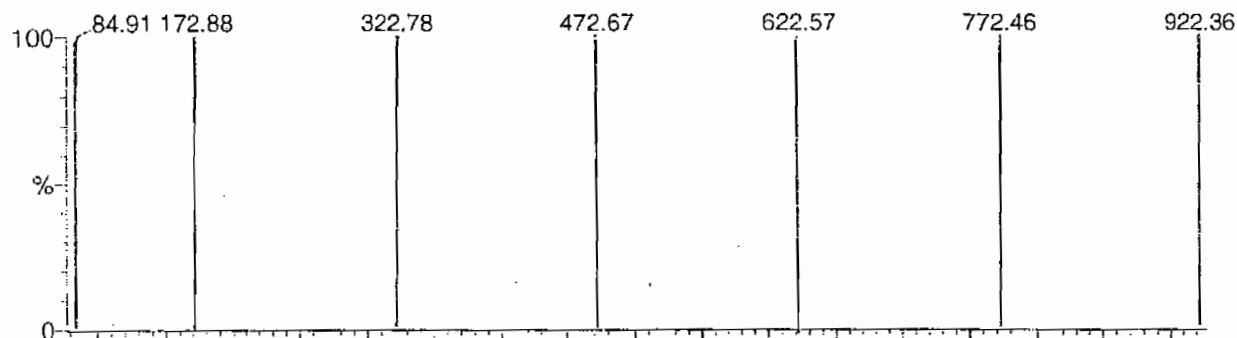
Printed: Tue Jan 08 12:21:59 2008

Data file: STATMS2 - Uncalibrated

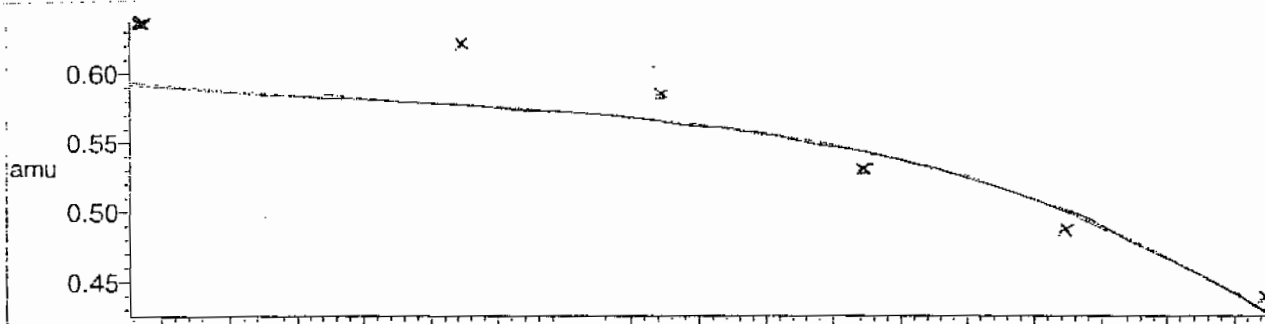
7 matches of 7 tested references



Reference file: Nairb

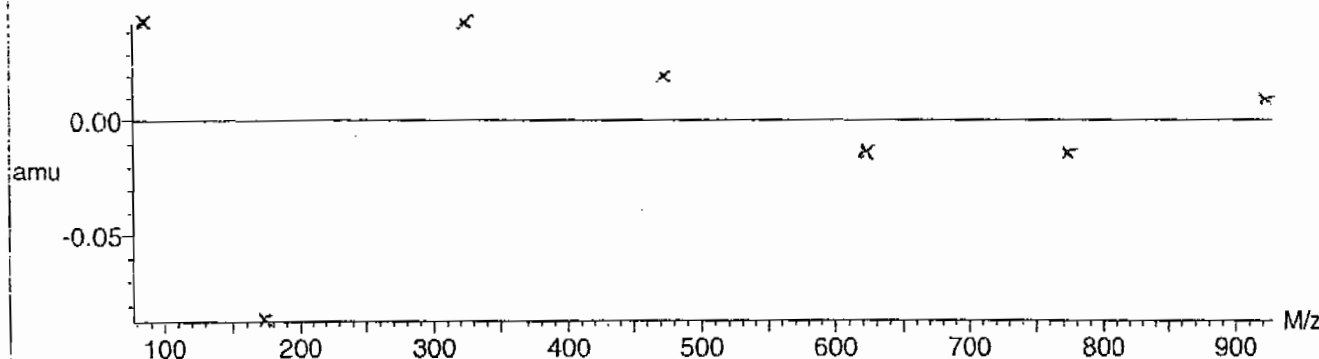


Mass difference (Raw - Ref mass)



Residuals

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



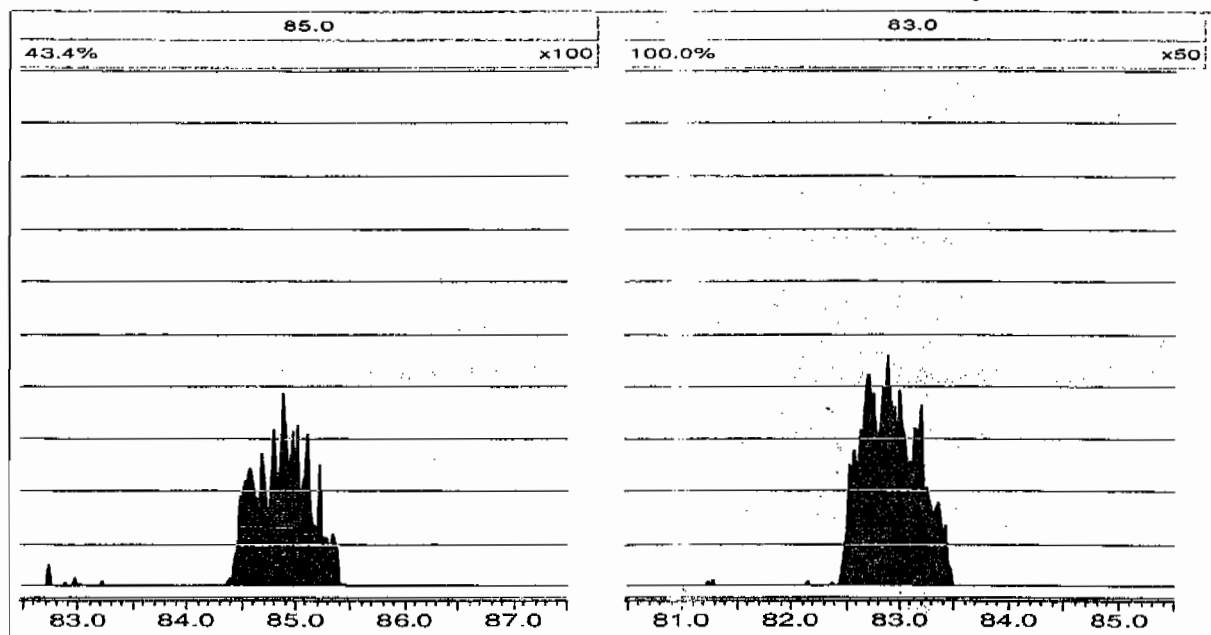
Trace Parameters

masslynx 4.0 SP4

Page 1 of 1

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

Printed: Friday, March 19, 2010 07:16:27 Eastern Standard Time



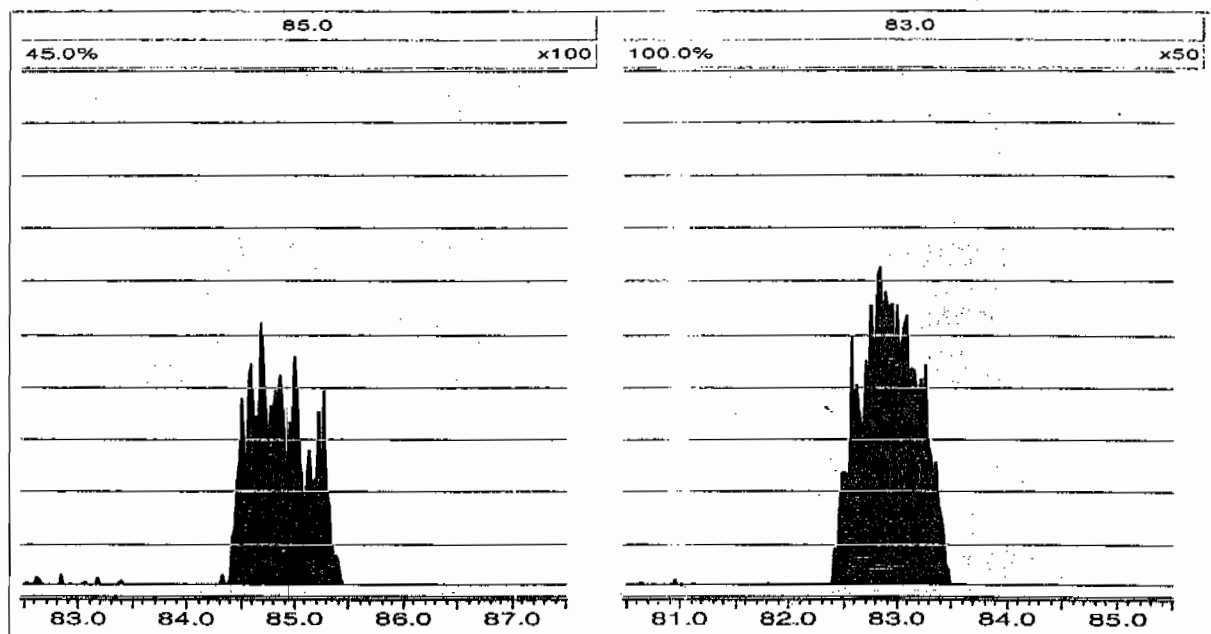
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

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



Perchlorate RT And Area Summary

GEL Job No.(SDG): 10-2122

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	per0319006a	19-MAR-10	11968.7				
Lower Area Limit			5984.35				
Upper Area Limit			23937.4				
1202056676	per0319012a	19-MAR-10 12:46	10813.9	2.45	2.42698	.991	
1202056677	per0319013a	19-MAR-10 12:53	11935.6	2.45	2.46423	1.006	
1202056681	per0319014a	19-MAR-10 13:00	12272.7	2.5	2.51383	1.006	
248198009	per0319038a	19-MAR-10 15:49	11646.4	2.39	2.40207	1.005	
248198010	per0319039a	19-MAR-10 15:56	11719.9	2.38	2.3897	1.004	
248198011	per0319040a	19-MAR-10 16:03	11686	2.38	2.38973	1.004	
248198012	per0319041a	19-MAR-10 16:11	11833.7	2.36	2.38968	1.013	

Perchlorate RT And Area Summary

GEL Job No.(SDG): 10-2122

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	per0320006a	20-MAR-10	15678.1				
Lower Area Limit			7839.05				
Upper Area Limit			31356.2				
248198001	per0320012a	20-MAR-10 19:00	14443.8	2.28	2.29023	1.004	
1202056678	per0320013a	20-MAR-10 19:06	15682.6	2.27	2.29023	1.009	
1202056679	per0320014a	20-MAR-10 19:13	15654.8	2.27	2.27793	1.003	
248198002	per0320015a	20-MAR-10 19:20	15196.1	2.27	2.27795	1.004	
248198003	per0320016a	20-MAR-10 19:26	15289.7	2.25	2.2655	1.007	
248198004	per0320017a	20-MAR-10 19:33	15150.4	2.27	2.27798	1.004	
248198005	per0320018a	20-MAR-10 19:39	15153.9	2.25	2.26547	1.007	
248198006	per0320019a	20-MAR-10 19:46	15628.8	2.25	2.26545	1.007	

Perchlorate RT And Area Summary

GEL Job No.(SDG): 10-2122

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	per0320006a	20-MAR-10	15678.1				
Lower Area Limit			7839.05				
Upper Area Limit			31356.2				
248198007	per0320020a	20-MAR-10 19:52	14820.7	2.25	2.26543	1.007	
248198008	per0320021a	20-MAR-10 19:59	14917.2	2.24	2.25298	1.006	

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: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7405

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198001

Date Filtered: 12-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	1.21	4.85	13.6	ug/kg		2	20-MAR-10 19:00	per0320012a
	Perchlorate Isotope Ratio			3.18			2	20-MAR-10 19:00	per0320012a
14797-73-0	Perchlorate-101	1.21	4.85	12.9	ug/kg		2	20-MAR-10 19:00	per0320012a
	Perchlorate-O(18)			12.0	ug/kg		2	20-MAR-10 19:00	per0320012a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

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

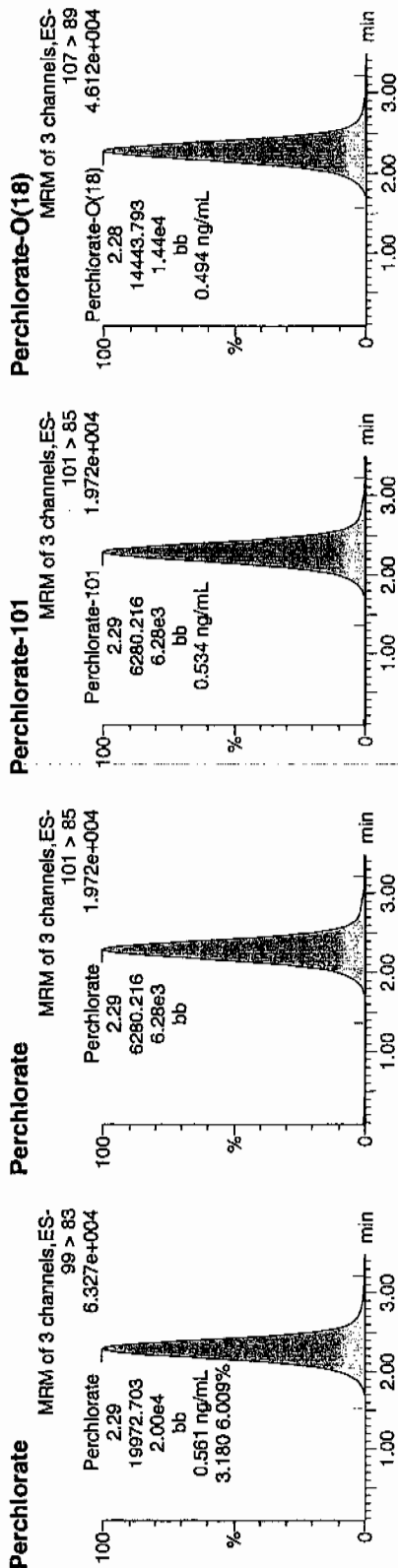
Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

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

Name: per0320012a
Date: 20-Mar-2010
Time: 19:00:25
ID: 248198001
Vial: 1:3,A

LAN-159012 | 5025 | 2 | 10L

03-21-10



ID	Name	Trace	RT	Area	Response	Flags	Mod	Det	Conc	Rec	% Dev	S/N	Ion Ratio
248198001	Perchlorate	99 > 83	2.29	19972.703	19972.703	bb			0.5606	5202.4...		3.18	
248198001	Perchlorate-101	101 > 85	2.29	6280.216	6280.216	bb			0.5338	1030.2...			
248198001	Perchlorate-O(18)	107 > 89	2.28	14443.793	14443.793	bb			0.4940	4112.7...			

19972.703
 35224.7
 $0.5606 \times 2 = 1.1213 \times 10 = 11.213$
 $11.213 / 0.525 = 21.35913$
 $21.35913 \times 2 = 42.71826$
 $42.71826 / 312260 = 1.368 \times 10^{-4}$

P perchlorate Analysis Data Sheet

Client Sample No.

RE36-10-7403

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198002

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 86

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 259007

Extraction Type: Solid Prep

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	5.82	23.3	59.1	ug/kg		10	20-MAR-10 19:20	per0320015a
	Perchlorate Isotope Ratio			3.14			10	20-MAR-10 19:20	per0320015a
14797-73-0	Perchlorate-101	5.82	23.3	57.0	ug/kg		10	20-MAR-10 19:20	per0320015a
	Perchlorate-O(18)			60.5	ug/kg		10	20-MAR-10 19:20	per0320015a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

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

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

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

Name: per0320015a

Date: 20-Mar-2010

Time: 19:20:02

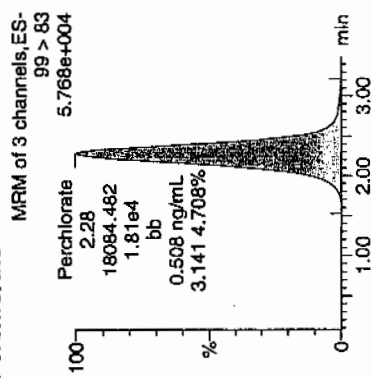
ID: 248198002

Vial: 1:3,D

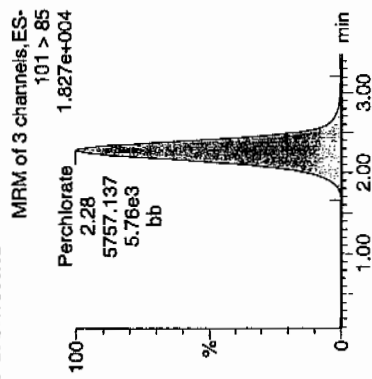
1520-1954012 | 30020 | 10/10

03-21-10

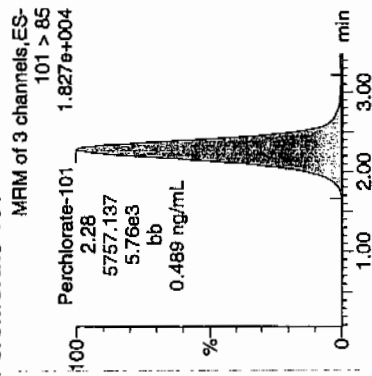
Perchlorate



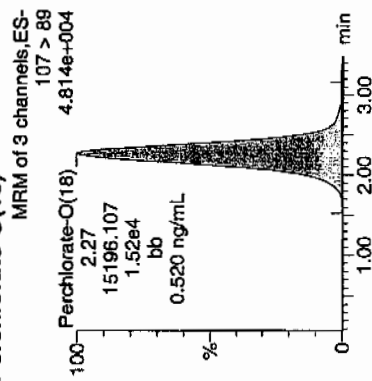
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod	Date	Mod	Time	ng/mL	Rec	% Day	S/N	Ion Ratio
248198002	Perchlorate	99 > 83	2.28	18084.482	18084.482	bb					0.5076		2820.5...	3.14	
248198002	Perchlorate-101	101 > 85	2.28	5757.137	5757.137	bb					0.4893		824.860		
248198002	Perchlorate-O(18)	107 > 89	2.27	15196.107	15196.107	bb					0.5197		3.94 3256.7...		

5.08
x10
= 4.89

5757.137 | 10 | 100 | 10
11765.5 | 25.4 | = 57.0

not
3/22/10

P perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7406

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198003

Date Filtered: 12-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	1.12	4.47	12.4	ug/kg		2	20-MAR-10 19:26	per0320016a
	Perchlorate Isotope Ratio			3.09			2	20-MAR-10 19:26	per0320016a
14797-73-0	Perchlorate-101	1.12	4.47	12.2	ug/kg		2	20-MAR-10 19:26	per0320016a
	Perchlorate-O(18)			11.7	ug/kg		2	20-MAR-10 19:26	per0320016a

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

*Concentration =

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

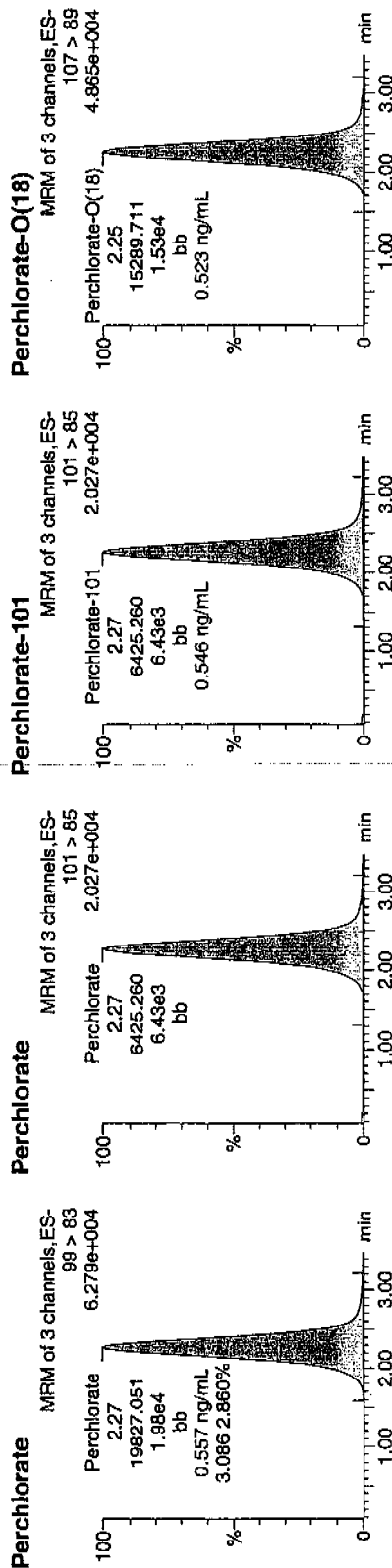
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

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

Name: per0320016a
Date: 20-Mar-2010
Time: 19:26:34
ID: 248198003
Vial: 1:3,E

159012 | 5070 | 210



ID	Name	Trace	RT	Area	Response	Flags	Schedule	Mod Time	Conc	Res	Det	S/N	Ratio
248198003	Perchlorate	99 > 83	2.27	19827.051	19827.051	bb			0.5566		9557.2...	3.09	
248198003	Perchlorate-101	101 > 85	2.27	6425.260	6425.260	bb			0.5461		1402.9...		
248198003	Perchlorate-O(18)	107 > 89	2.25	15289.711	15289.711	bb			0.5229		104.58	4.58	6609.7...

$$\frac{19827.051}{35624.7} = 0.5566$$

1.11
x2
1.09
1077
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: 959007
Extraction Type: Solid Prep
Sample Volume/Weight: 2.00 g
Concentrated Extract Volume: 20.0
Client Sample No. RE36-10-7404
Date Received: 26-FEB-10
GEL Job No (SDG): 10-2122
GEL Sample ID: 248198004
Date Filtered: 12-MAR-10
Injection Volume (uL): 20
%Solids: 88

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	5.68	22.7	88.2	ug/kg		10	20-MAR-10 19:33	per0320017a
	Perchlorate Isotope Ratio			3.07			10	20-MAR-10 19:33	per0320017a
14797-73-0	Perchlorate-101	5.68	22.7	87.0	ug/kg		10	20-MAR-10 19:33	per0320017a
	Perchlorate-O(18)			58.8	ug/kg		10	20-MAR-10 19:33	per0320017a

[^] 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\per032010a.qld

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

Name: per0320017a

Date: 20-Mar-2010

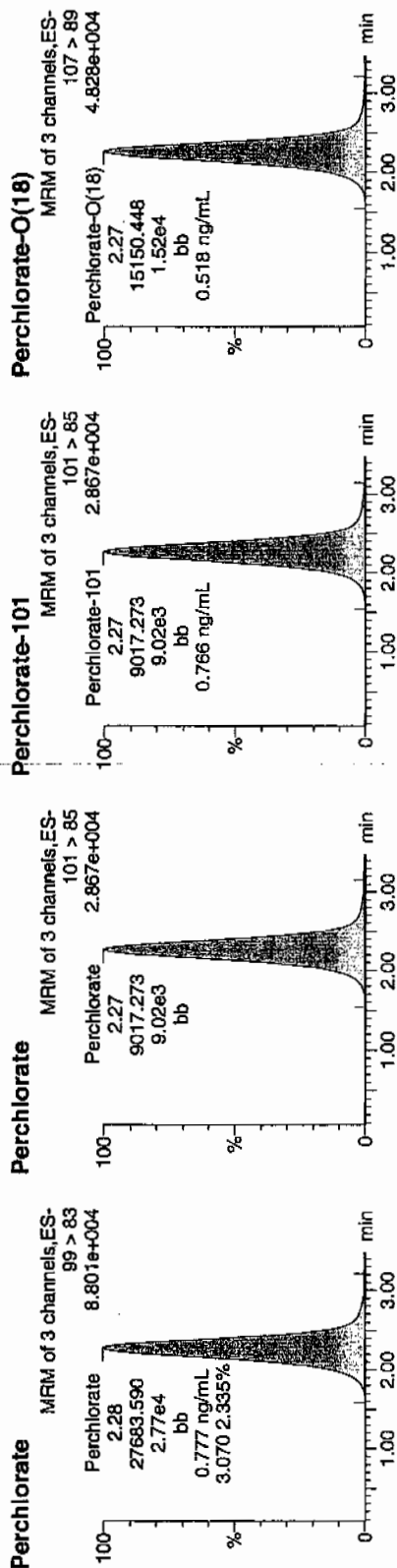
Time: 19:33:06

ID: 248198004

Vial: 1:3,F

1500 | 959012 | 5000 | 10 | 20

03-21-10



ID	Name	Trace	Area	Response	Flags	Mod	Time	Unit	Ratio	SN	Ratio
248198004	Perchlorate	99 > 83	2.28	27683.590	27683.590	bb	0.7771	0.7771	9508.8...	3.07	7.77
248198004	Perchlorate-101	101 > 85	2.27	9017.273	9017.273	bb	0.7864	0.7864	546.473		X10
248198004	Perchlorate-O(18)	107 > 89	2.27	15150.448	15150.448	bb	0.5181	103.63	3232.0...		7.66

27683.590 / 3524.7 = 0.7771

1500 3/22/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 8850 Modified

Matrix: SOIL

Extraction Batch ID: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7516

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198005

Date Filtered: 12-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	1.22	4.88	13.0	ug/kg		2	20-MAR-10 19:39	per0320018a
	Perchlorate Isotope Ratio			3.11			2	20-MAR-10 19:39	per0320018a
14797-73-0	Perchlorate-101	1.22	4.88	12.6	ug/kg		2	20-MAR-10 19:39	per0320018a
	Perchlorate-O(18)			12.7	ug/kg		2	20-MAR-10 19:39	per0320018a

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

*Concentration =
Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

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

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

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

Name: per0320018a

Date: 20-Mar-2010

Time: 19:39:37

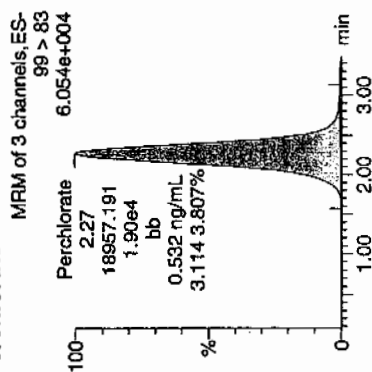
ID: 248198005

Vial: 1:4,A

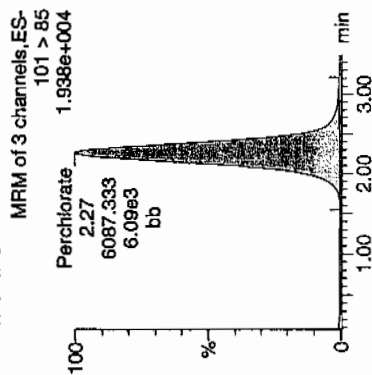
603 21-10

1000-1959012/2020/2/10

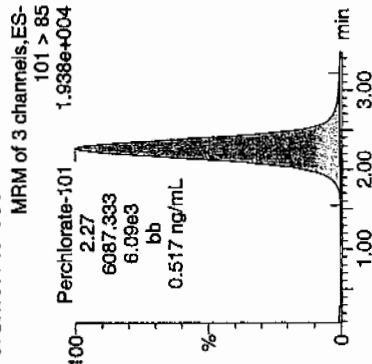
Perchlorate



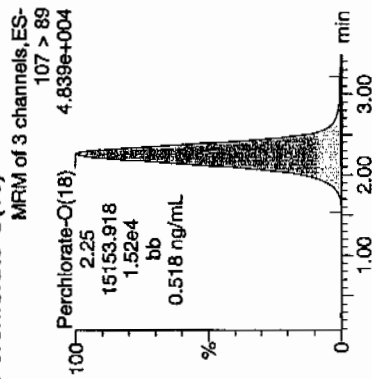
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Name	Trace	Area	Response	Flags	Mod	Date	Time	Conc	Dev	SN	Ion	Ratio
248198005	Perchlorate	99 > 83	2.27	18957.191	bb			0.5321	5209.0...	3.11		
248198005	Perchlorate-101	101 > 85	2.27	6087.333	bb			0.5174	1065.5...			
248198005	Perchlorate-O(18)	107 > 89	2.25	15153.918	bb			0.5182	103.65	3.65	2936.1...	

$$= 106$$

$$\times 1 = 1.03$$

$$18957.191 / 35624.7 = 0.5321$$

4/17
3/22/10

Form 1

Perchlorate Analysis Data Sheet

Client Sample No.
RE36-10-7426

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Date Received: 26-FEB-10

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

GEL Sample ID: 248198006

Extraction Batch ID: 959007

Date Filtered: 12-MAR-10

Extraction Type: Solid Prep

Injection Volume (uL): 20

%Solids: 88

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	.571	2.28	3.19	ug/kg		1	20-MAR-10 19:46	per0320019a
	Perchlorate Isotope Ratio			3.01			1	20-MAR-10 19:46	per0320019a
14797-73-0	Perchlorate-101	.571	2.28	3.20	ug/kg		1	20-MAR-10 19:46	per0320019a
	Perchlorate-O(18)			6.11	ug/kg		1	20-MAR-10 19:46	per0320019a

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

*Concentration =

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

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

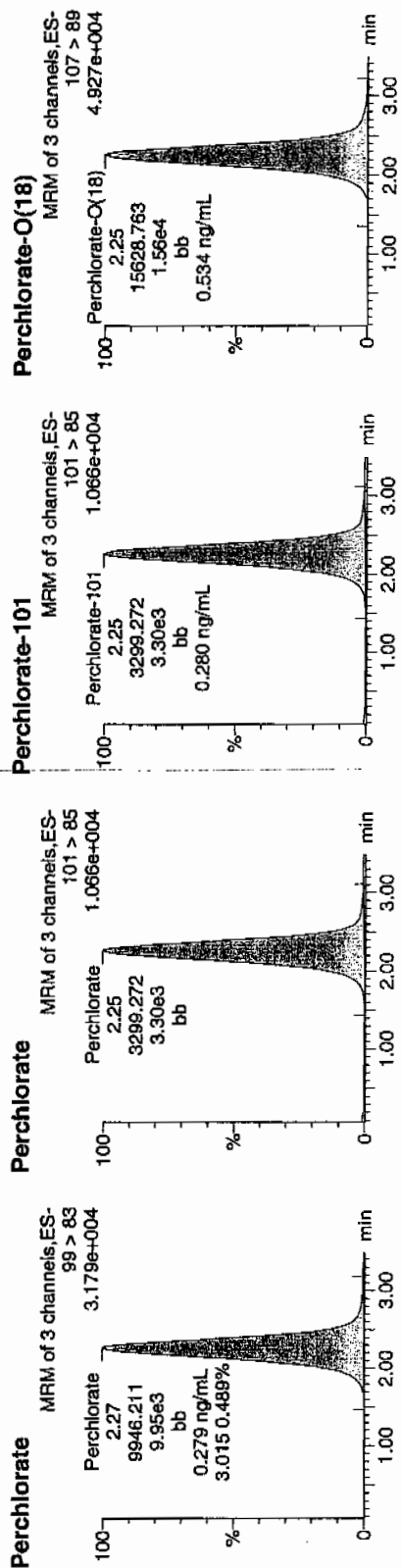
Dataset: C:\MassLynx\Perchlorate.PRO\per032010a.qld

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

Name: per0320019a
Date: 20-Mar-2010
Time: 19:46:11
ID: 248198006
Vial: 1:4,B

1522-1959012 | 3020 | 1109

032410



ID	Name	Trace	RT	Area	Response	Units	Mod Date	Mod Time	ng/mL	% Rec	Age	SN	Ion Ratio
248198006	Perchlorate	99 > 83	2.27	9946.211	9946.211	bb			0.2792			864.988	3.01
248198006	Perchlorate-101	101 > 85	2.25	3299.272	3299.272	bb			0.2804			1800.0...	
248198006	Perchlorate-O(18)	107 > 89	2.25	15628.763	15628.763	bb			0.5345			6.90 9568.1...	

$$\frac{9946.211}{35624.7} = 0.2792$$

not
3/24/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7432

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198007

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 86

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	1.16	4.63	17.5	ug/kg		2	20-MAR-10 19:52	per0320020a
	Perchlorate Isotope Ratio			3.06			2	20-MAR-10 19:52	per0320020a
14797-73-0	Perchlorate-101	1.16	4.63	17.3	ug/kg		2	20-MAR-10 19:52	per0320020a
	Perchlorate-O(18)			11.7	ug/kg		2	20-MAR-10 19:52	per0320020a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

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

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

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

Name: per0320020a

Date: 20-Mar-2010

Time: 19:52:44

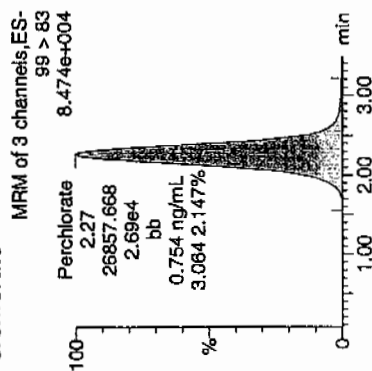
ID: 248198007

Vial: 1:4,C

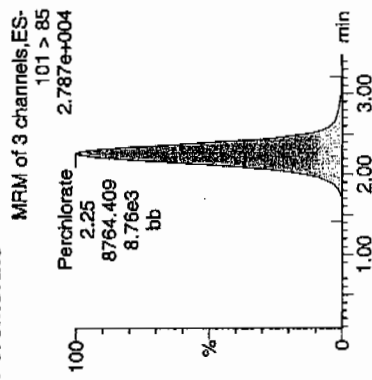
10000 | 959012 | 50000 | 11

03-21-10

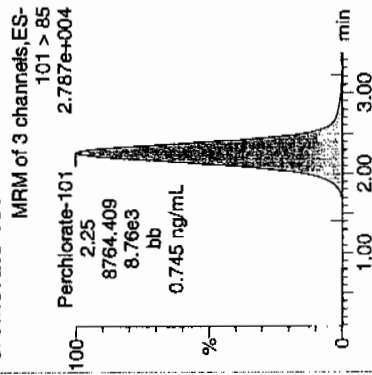
Perchlorate



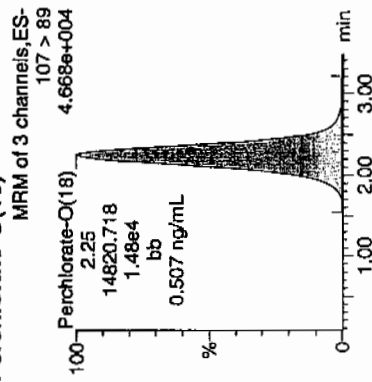
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	Area	Response	Flags	Mod	Time	Conc	%Dev	S/N	Ratio
248198007	Perchlorate	99 > 83	2.27	26857.668		bb	2.25	0.7539	6505.6...	3.06	
248198007	Perchlorate-101	101 > 85	2.25	8764.409	✓	bb	2.25	0.7449	3742.6...		
248198007	Perchlorate-O(18)	107 > 89	2.25	14820.718		bb	2.25	0.5069	1.37 6396.1...		

$$\frac{26857.668}{35624.7} = 0.7539$$

$$\begin{aligned} &= 1.51 \\ &\times 2 \\ &= 1.49 \\ &\text{not } 3/22/10 \end{aligned}$$

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: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7431

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198008

Date Filtered: 12-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	.65	2.6	9.12	ug/kg		1	20-MAR-10 19:59	per0320021a
	Perchlorate Isotope Ratio			3.09			1	20-MAR-10 19:59	per0320021a
14797-73-0	Perchlorate-101	.65	2.6	8.93	ug/kg		1	20-MAR-10 19:59	per0320021a
	Perchlorate-O(18)			6.63	ug/kg		1	20-MAR-10 19:59	per0320021a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

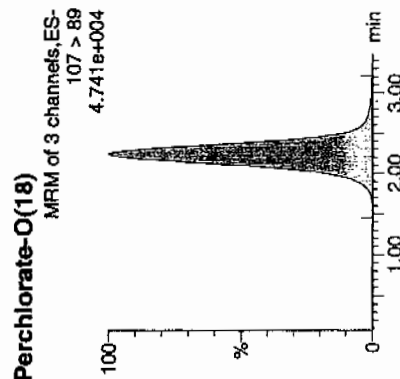
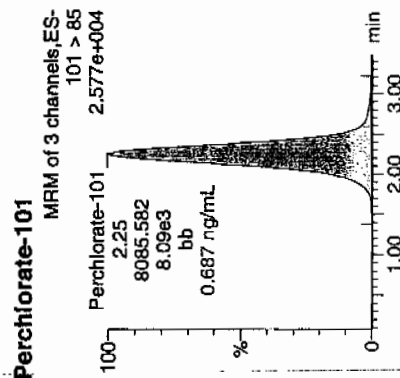
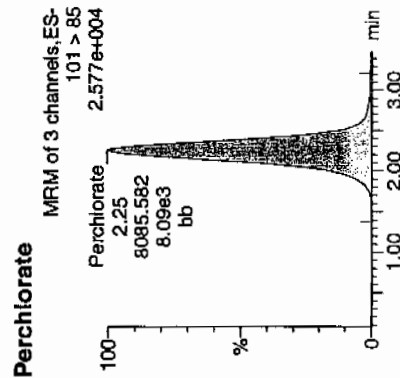
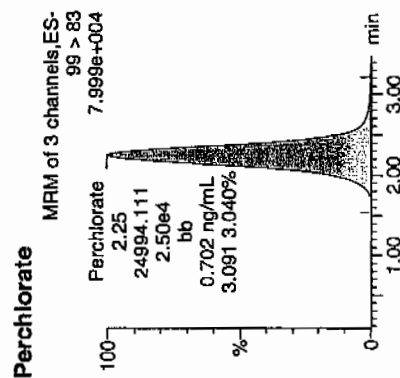
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

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

Name: per0320021a
Date: 20-Mar-2010
Time: 19:59:16
ID: 248198008
Vial: 1:4,D

1220 | 959012 | 5020 | 11 | 05



ID	Name	Trace	RT	Area	Response	Flags	Mod	Time	PPM	% Abs	% O	SN	Ion Ratio
248198008	Perchlorate	99 > 83	2.25	24994.111	24994.111	bb				0.7016		1297.5...	3.09
248198008	Perchlorate-101	101 > 85	2.25	8085.582	8085.582	bb				0.6872		2191.8...	
248198008	Perchlorate-O(18)	107 > 89	2.24	14917.230	14917.230	bb				0.5102	102.03	2.03	501.555

$$\frac{24994.111}{35224.7} = 0.7016$$

NOT
3/22/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7434

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198009

Date Filtered: 12-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	.648	2.59	2.21	ug/kg	J	1	19-MAR-10 15:49	per0319038a
	Perchlorate Isotope Ratio			3.01			1	19-MAR-10 15:49	per0319038a
14797-73-0	Perchlorate-101	.648	2.59	2.13	ug/kg	J	1	19-MAR-10 15:49	per0319038a
	Perchlorate-O(18)			6.22	ug/kg		1	19-MAR-10 15:49	per0319038a

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

*Concentration =
Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319038a

Date: 19-Mar-2010

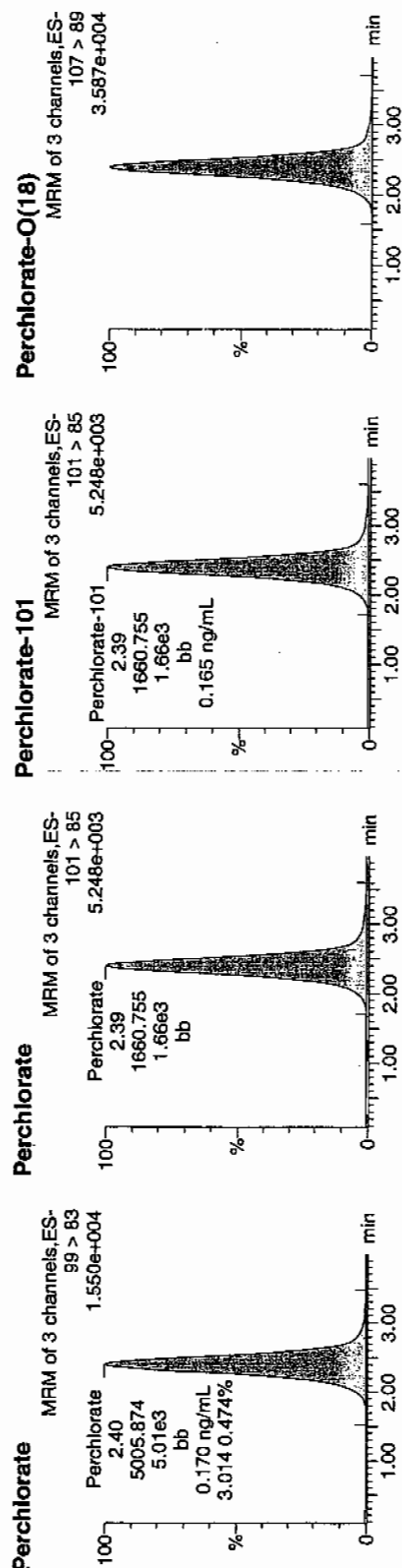
Time: 15:49:49

D: 248198009

Vial: 1:6,C

3000

11050205011



Dr. Name	Dr. Title	Dr. Office	Dr. Phone	Dr. Fax	Dr. Email	Dr. Website	Dr. Address	Dr. City	Dr. State	Dr. Zip	Dr. Country	Dr. Day	Dr. Night	Dr. Mobile	Dr. Pager	Dr. Fax	Dr. Email	Dr. Website
Perchlorate	98 > 83	2.40	5005.874	5005.874	bb							0.1701						3024.1...
Perchlorate-101	101 > 85	2.39	1660.755	1660.755	bb							0.1646						362.283
Perchlorate-O(18)	107 > 89	2.39	11646.420	11646.420	bb							0.4795						2784.2...

$$\frac{5005.874}{29427} = 0.1701$$

not
3/22/12

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: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7425

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198010

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 78

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.642	2.57	5.06	ug/kg		1	19-MAR-10 15:56	per0319039a
	Perchlorate Isotope Ratio			3.03			1	19-MAR-10 15:56	per0319039a
14797-73-0	Perchlorate-101	.642	2.57	4.88	ug/kg		1	19-MAR-10 15:56	per0319039a
	Perchlorate-O(18)			6.20	ug/kg		1	19-MAR-10 15:56	per0319039a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

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

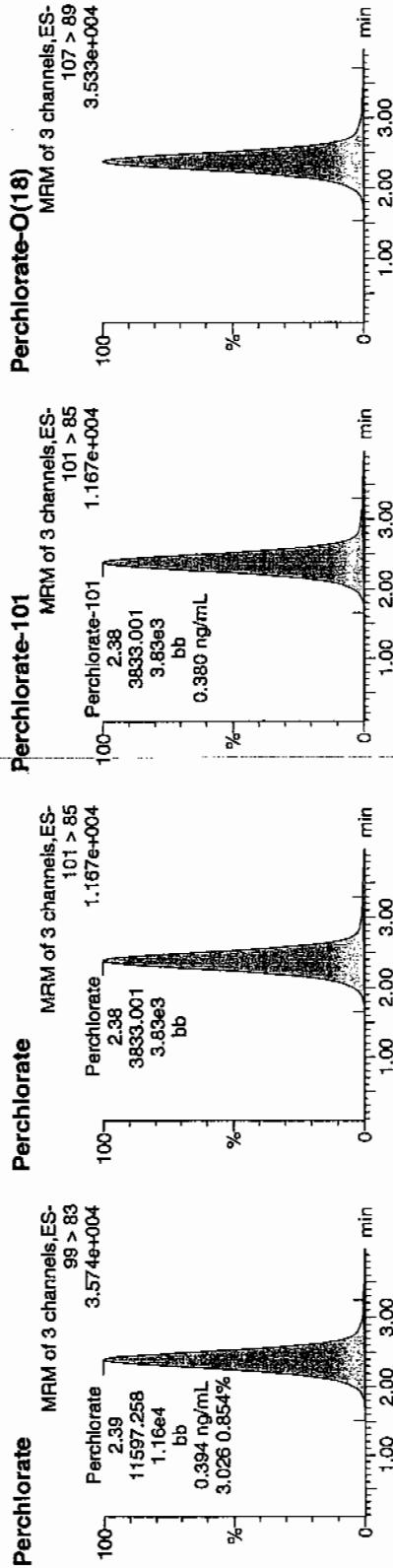
Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319039a
Date: 19-Mar-2010
Time: 15:56:52
ID: 248198010
Vial: 1:6,D

15200-1954012 / 50000 111

03-20-10



File	Name	Area	Ratio	Response	Flags	Mod	Date	Mod	Time	Conc	Unit	Rec	Dev	S/N	on Ratio
248198010	Perchlorate	99 > 83	2.39	11597.258	✓	bb				0.3941			688.853		3.03
248198010	Perchlorate-101	101 > 85	2.38	3833.001	✓	bb				0.3798			1585.2...		
248198010	Perchlorate-O(18)	107 > 89	2.38	11719.866		bb				0.4825			96.50	-3.50	1538.9...

107
3/22/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7429

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198011

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 70

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.711	2.85	4.99	ug/kg		1	19-MAR-10 16:03	per0319040a
	Perchlorate Isotope Ratio			3.02			1	19-MAR-10 16:03	per0319040a
14797-73-0	Perchlorate-101	.711	2.85	4.82	ug/kg		1	19-MAR-10 16:03	per0319040a
	Perchlorate-O(18)			6.84	ug/kg		1	19-MAR-10 16:03	per0319040a

[^] 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\per031910a.qld

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Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319040a

Date: 19-Mar-2010

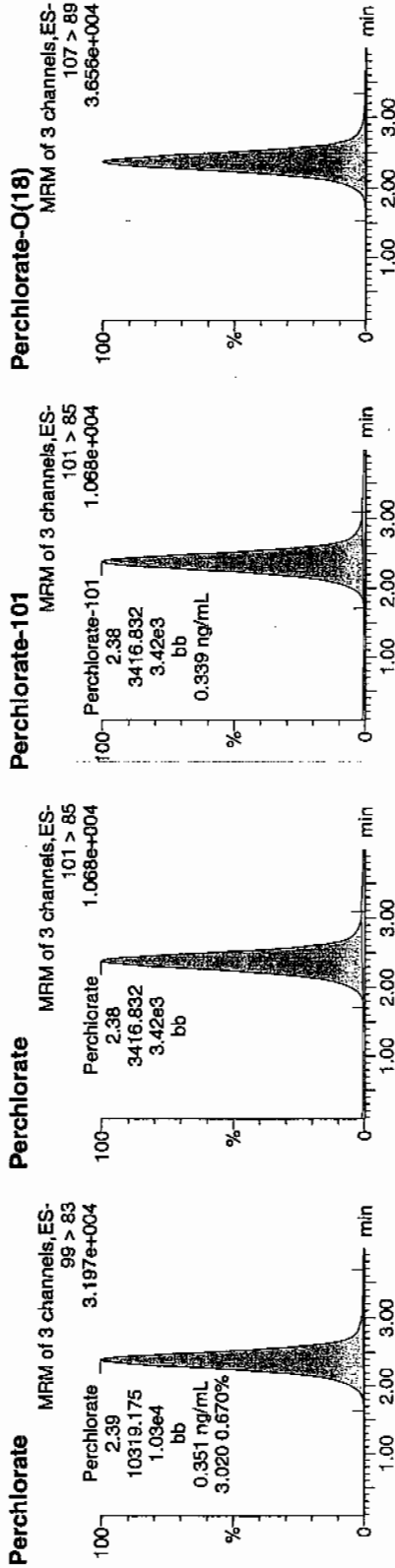
Time: 16:03:55

ID: 248198011

Vial: 1:6,E

03.23.10

15420-1954012 | 3020 | 11



ID	Name	RT	Area	Response	Flags	Mod	Date	Mod	Time	nd/m	%Rec	%Dev	S/N	Ion Ratio
248198011	Perchlorate	2.38	10319.175	10319.175	bb					0.3507			2284.0...	3.02
248198011	Perchlorate-101	2.38	3416.832	3416.832	bb					0.3386			1030.0...	
248198011	Perchlorate-O(18)	2.38	11685.983	11685.983	bb					0.4811	96.22	-3.78	1381.9...	

10319.175
3416.832
3.0201

14/77
3/22/10

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: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7433

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 248198012

Date Filtered: 12-MAR-10

Injection Volume (uL): 20

%Solids: 71

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.7	2.8	2.90	ug/kg		1	19-MAR-10 16:11	per0319041a
	Perchlorate Isotope Ratio			3.06			1	19-MAR-10 16:11	per0319041a
14797-73-0	Perchlorate-101	.7	2.8	2.76	ug/kg	J	1	19-MAR-10 16:11	per0319041a
	Perchlorate-O(18)			6.82	ug/kg		1	19-MAR-10 16:11	per0319041a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319041a

Date: 19-Mar-2010

Time: 16:11:13

ID: 248198012

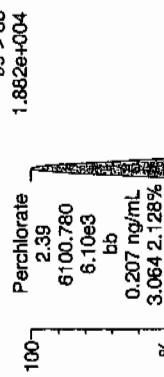
Vial: 1:6,F

032010

15700 | 959012 | 5020 | 11

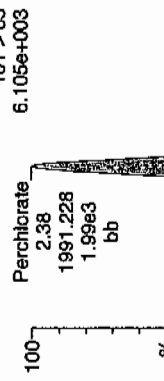
Perchlorate

MRM of 3 channels, ES-
99 > 83



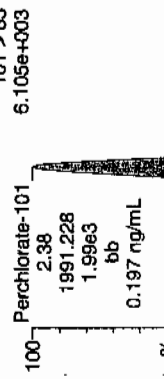
Perchlorate

MRM of 3 channels, ES-
101 > 85



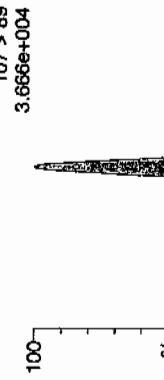
Perchlorate-101

MRM of 3 channels, ES-
101 > 85



Perchlorate-O(18)

MRM of 3 channels, ES-
107 > 89



ID	Name	Trace	RT	Area	Response	Flags	Mod	Date	Mod	Time	ng/mL	2 Rec	% Dev	S/N	Ion Ratio
248198012	Perchlorate	99 > 83	2.39	6100.780	6100.780	bb					0.2073	✓	0.2073	1393.7...	3.06
248198012	Perchlorate-101	101 > 85	2.38	1991.228	1991.228	bb					0.1973		0.1973	400.191	
248198012	Perchlorate-O(18)	107 > 89	2.36	11833.723	11833.723	bb					0.4872	✓	0.4872	97.44	-2.56 2600.0...

1077
3/22/10

STANDARDS DATA

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-2122

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS **Date Analyzed:** 19-MAR-10

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

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

Paramname Perchlorate

Coefficient of Determination:

Calibration Curve: 29426.98

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 19-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-101

Coefficient of Determination:

Calibration Curve: 10091.948

Response Type: External Standard

Curve Type: RF

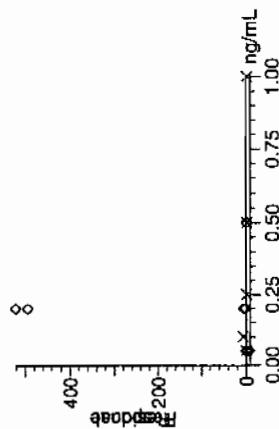
Quantify Calibration Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

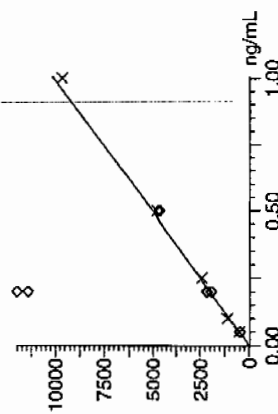
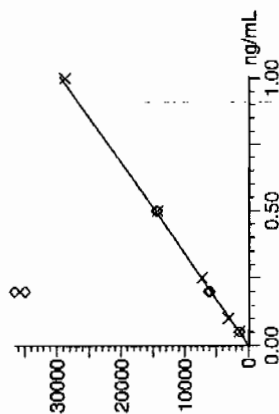
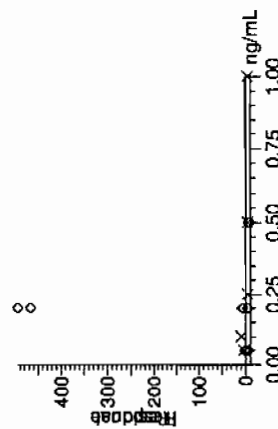
Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per031910a.mdb 20 Mar 2010 13:21:43
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per031910a.cdb 20 Mar 2010 13:22:42

Compound name: Perchlorate ✓
Response Factor: 29427 ✓
RF SD: 1177.51, % Relative SD: 4.00146 ✓
Response type: External Std, Area ✓
Curve type: RF ✓



Compound name: Perchlorate-101 ✓
Response Factor: 10092 ✓
RF SD: 664.55, % Relative SD: 6.58495 ✓
Response type: External Std, Area ✓
Curve type: RF ✓



3EL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

03-20-10

Not
3/22/10

Quantify Calibration Report MassLynx 4.0 SP4

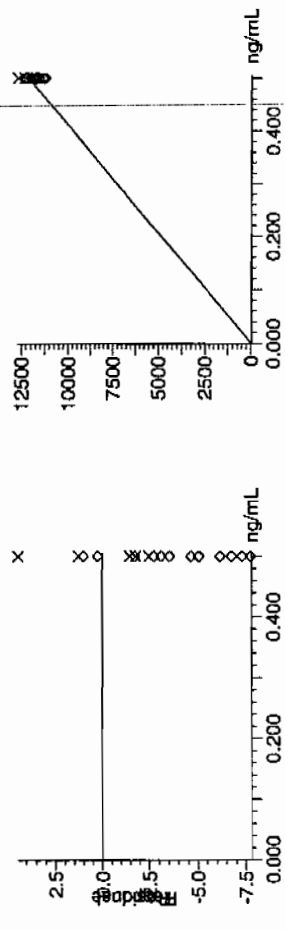
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time

Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Compound name: Perchlorate-O(18) ✓
 Response Factor: 24289.8 ✓
 RRF SD: 695.197, % Relative SD: 2.86209 ✓
 Response type: External Std, Area
 Curve type: RF ✓



Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-2122

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 20-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

Coefficient of Determination:

Calibration Curve: 35624.74

Response Type: External Standard

Curve Type: RF

Form 2

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-2122

Lab Code: GEL

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

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

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

Paramname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 11765.52

Response Type: External Standard

Curve Type: RF

Quantify Calibration Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charliers W. Wilson

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

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

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per032010a.mdb 21 Mar 2010 08:28:58

Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per032010a.cdb 21 Mar 2010 08:29:17

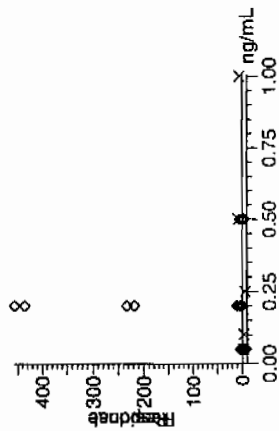
Compound name: Perchlorate ✓

Response Factor: 35624.7 ✓

RF SD: 2146.6, % Relative SD: 6.02559 ✓

Response type: External Std, Area

Curve type: RF ✓



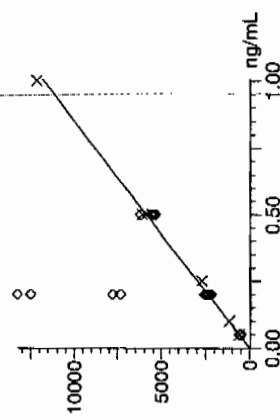
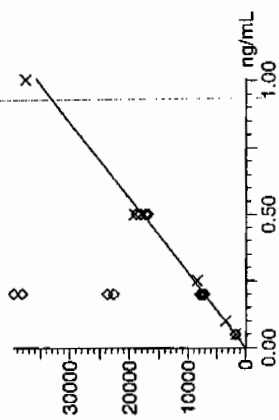
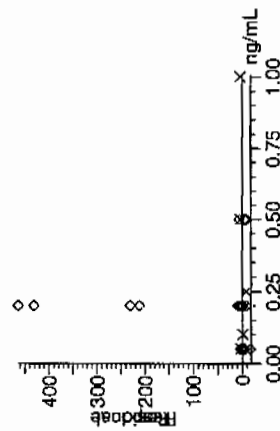
Compound name: Perchlorate-101 ✓

Response Factor: 11765.5 ✓

RF SD: 579.945, % Relative SD: 4.92919 ✓

Response type: External Std, Area

Curve type: RF ✓



3/22/10

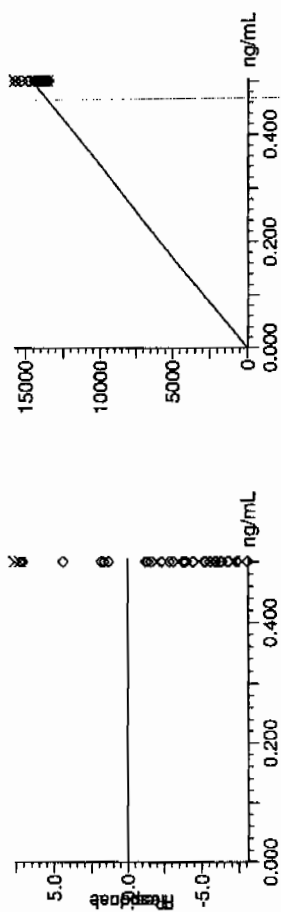
3/22/10

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

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

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

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



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

Form 3

Perchlorate Initial Calibration Verification

GEL Job No.(SDG): 10-2122

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.5	99.27	19-MAR-10 12:24	per0319009a
Perchlorate Isotope Ratio		3.08		19-MAR-10 12:24	per0319009a
Perchlorate-101	.5	.47	93.84	19-MAR-10 12:24	per0319009a
Perchlorate	.5	.53	106.04	20-MAR-10 18:40	per0320009a
Perchlorate Isotope Ratio		3.05		20-MAR-10 18:40	per0320009a
Perchlorate-101	.5	.53	105.34	20-MAR-10 18:40	per0320009a

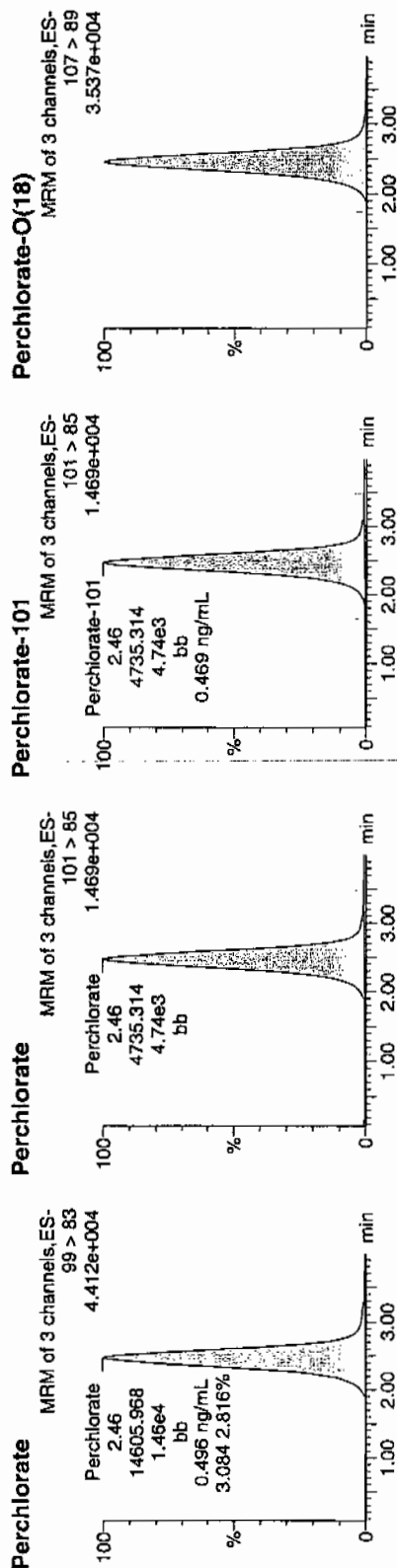
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319009a
Date: 19-Mar-2010
Time: 12:24:29
ID: WCL100318-06ICV
Vial: 1:2,A

*per
0319009a
03-20-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06ICV	Perchlorate	99 > 83	2.46	14605.968	14605.968	bb			0.4963	99.27	-0.73	2776.0...	3.08
WCL100318-06ICV	Perchlorate-101	101 > 85	2.46	4735.314	4735.314	bb			0.4692	93.84	-6.16	442.320	
WCL100318-06ICV	Perchlorate-O(18)	107 > 89	2.45	11529.493	11529.493	bb			0.4747	94.93	-5.07	2669.5...	

$$\frac{14605.968}{29427} = 0.4963$$

*4077
3/22/10*

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charfers W. Wilson

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

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

Name: per0320009a

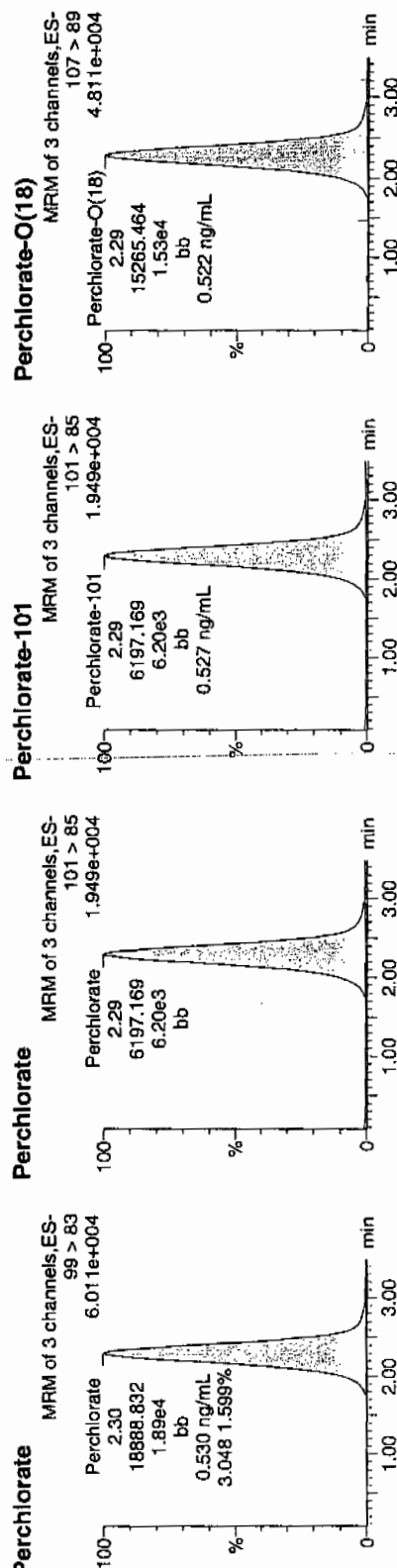
Date: 20-Mar-2010

Time: 18:40:30

ID: WCL100318-06ICV

Vial: 1:2,A

Per
000
03-21-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
VCL100318-06ICV	Perchlorate	2.30	18888.832	18888.832	bb			0.5302	106.04	6.04	5653.3...	3.05
VCL100318-06ICV	Perchlorate-101	2.29	6197.169	6197.169	bb			0.5267	105.34	5.34	3908.5...	
VCL100318-06ICV	Perchlorate-O(18)	2.29	15265.464	15265.464	bb			0.5221	104.41	4.41	2163.5...	

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

WCL
3/22/10

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2122

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.49	98.34	19-MAR-10 13:56	per0319022a
Perchlorate Isotope Ratio		3.13		19-MAR-10 13:56	per0319022a
Perchlorate-101	.5	.46	91.49	19-MAR-10 13:56	per0319022a
Perchlorate	.5	.49	97.68	19-MAR-10 15:28	per0319035a
Perchlorate Isotope Ratio		3.03		19-MAR-10 15:28	per0319035a
Perchlorate-101	.5	.47	93.95	19-MAR-10 15:28	per0319035a
Perchlorate	.5	.49	97.36	19-MAR-10 17:01	per0319048a
Perchlorate Isotope Ratio		3.14		19-MAR-10 17:01	per0319048a
Perchlorate-101	.5	.45	90.45	19-MAR-10 17:01	per0319048a
Perchlorate	.5	.51	101.69	20-MAR-10 20:05	per0320022a
Perchlorate Isotope Ratio		3.2		20-MAR-10 20:05	per0320022a
Perchlorate-101	.5	.48	96.29	20-MAR-10 20:05	per0320022a

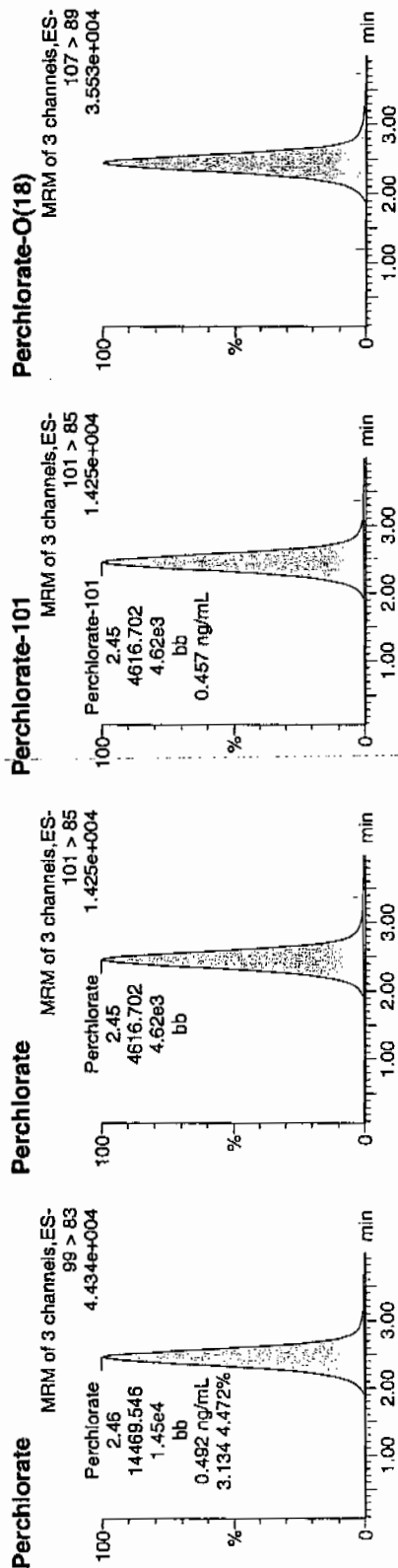
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

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Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319022a
Date: 19-Mar-2010
Time: 13:56:52
ID: WCL100318-06CCV
Vial: 1:2,A

*Perchlorate
6/23/2010*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	2.46	14469.546	14469.546	bb			0.4917	98.34	-1.66	1562.4...	3.13
WCL100318-06CCV	Perchlorate-101	101 > 85	2.45	4616.702	4616.702	bb			0.4575	91.49	-8.51	2931.0...	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	2.45	11718.223	11718.223	bb			0.4824	96.49	-3.51	912.670	

*not
3/20/10*

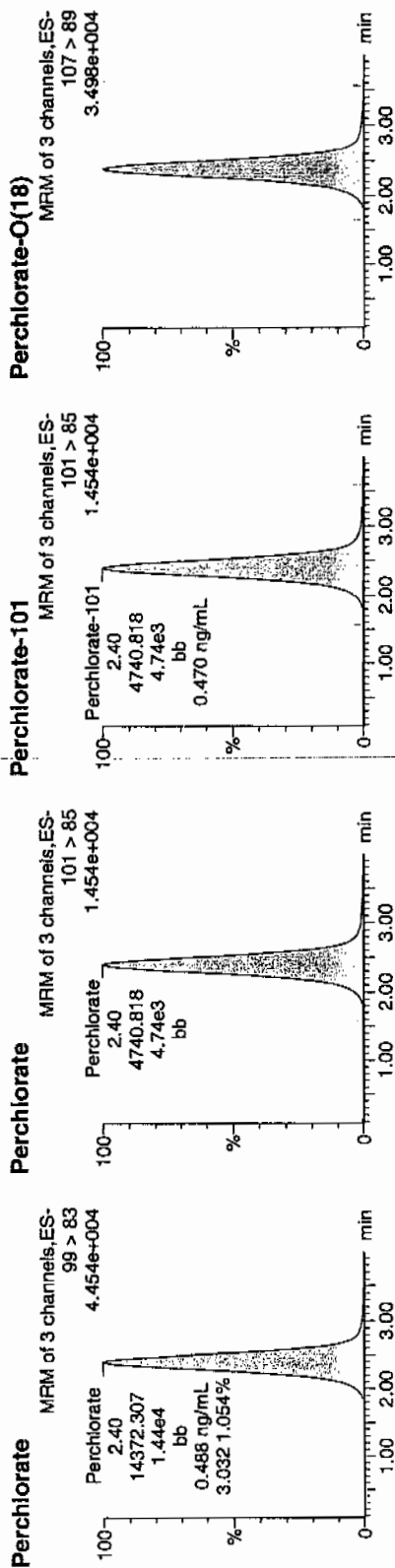
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319035a
Date: 19-Mar-2010
Time: 15:28:40
ID: WCL100318-06CCV
Vial: 1:2,A

*Per03
03-20-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	2.40	14372.307	14372.307	bb			0.4884	97.68	-2.32	2189.8...	3.03
WCL100318-06CCV	Perchlorate-101	101 > 85	2.40	4740.818	4740.818	bb			0.4698	93.95	-6.05	2569.4...	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	2.39	11327.914	11327.914	bb			0.4664	93.27	-6.73	6932.7...	

*not
3/22/10*

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

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

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Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

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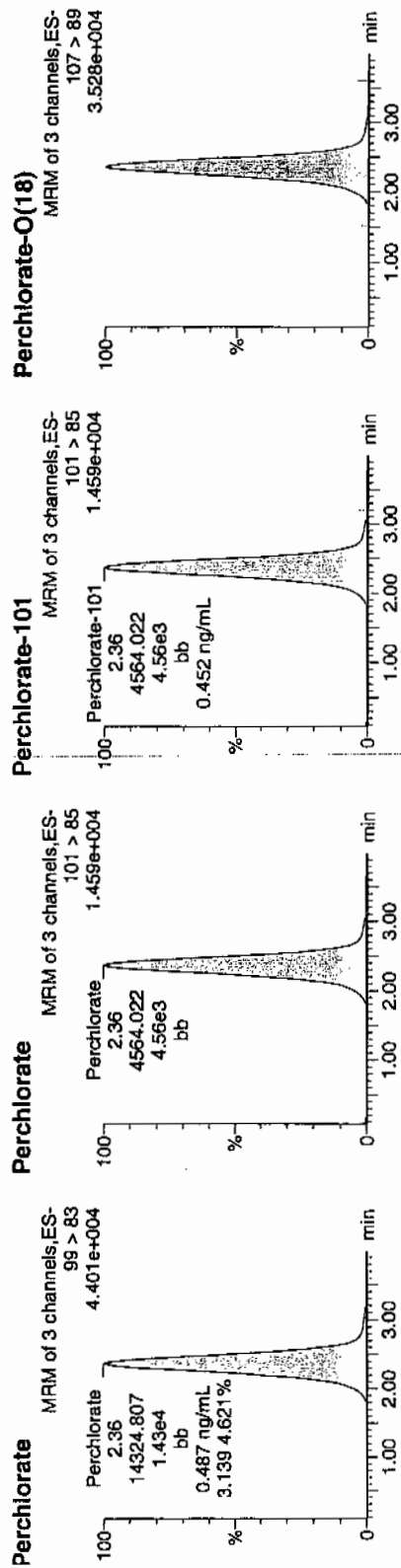
Date: 19-Mar-2010

Time: 17:01:17

ID: WCL100318-06CCV

Vial: 1:2,A

*Rec
WCL
03/20/10*



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
	Perchlorate	99 > 83	2.36	14324.807	14324.807	bb			0.4868	97.36	-2.64	2120.0...	3.14
	Perchlorate-101	101 > 85	2.36	4564.022	4564.022	bb			0.4522	90.45	-9.55	2667.0...	
	Perchlorate-O(18)	107 > 89	2.35	11396.606	11396.606	bb			0.4692	93.84	-6.16	332.922	

*WCL
3/20/10*

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charles W. Wilson

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

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

Sample Name: per0320022a

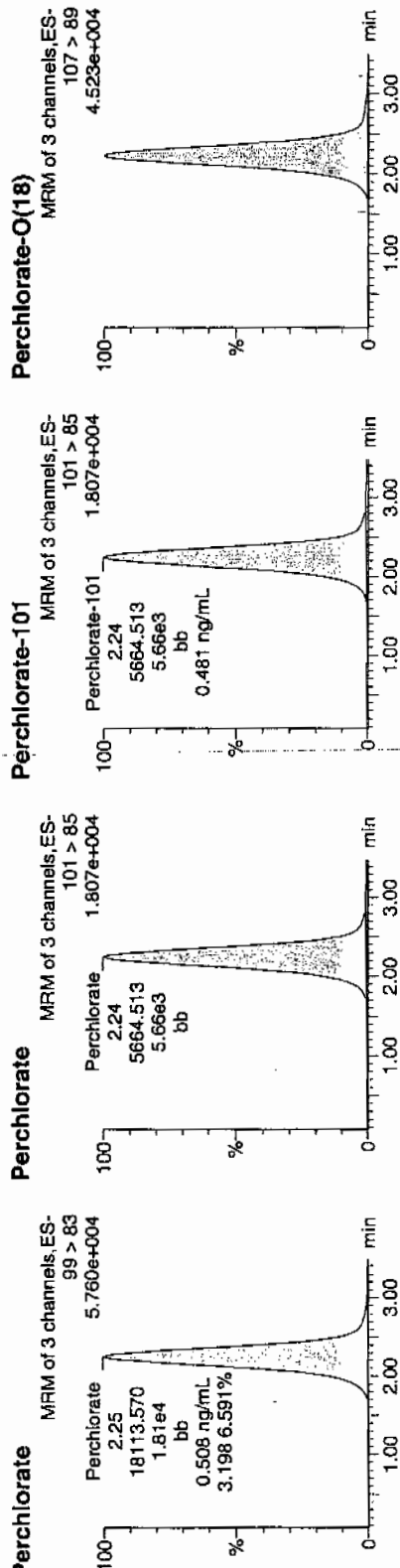
Date: 20-Mar-2010

Time: 20:05:48

D: WCL100318-06CCV

File: 1:2,A

Pure
 20-21-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
VCL100318-06CCV	Perchlorate	99 > 83	2.25	18113.570	bb			0.5085	101.89	1.69	1915.1...	3.20
VCL100318-06CCV	Perchlorate-101	101 > 85	2.24	5664.513	bb			0.4815	96.29	-3.71	2819.1...	
VCL100318-06CCV	Perchlorate-O(18)	107 > 89	2.23	14437.536	bb			0.4937	98.75	-1.25	2256.6...	

3/22/10

Perchlorate MDL Verification

GEL Job No.(SDG): 10-2122

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	98.34	19-MAR-10 12:38	per0319011a
Perchlorate Isotope Ratio		3.07		19-MAR-10 12:38	per0319011a
Perchlorate-101	.05	.05	93.42	19-MAR-10 12:38	per0319011a
Perchlorate	.05	.05	92.33	19-MAR-10 14:11	per0319024a
Perchlorate Isotope Ratio		2.86		19-MAR-10 14:11	per0319024a
Perchlorate-101	.05	.05	94.1	19-MAR-10 14:11	per0319024a
Perchlorate	.05	.05	96.78	19-MAR-10 15:42	per0319037a
Perchlorate Isotope Ratio		2.76		19-MAR-10 15:42	per0319037a
Perchlorate-101	.05	.05	102.23	19-MAR-10 15:42	per0319037a
Perchlorate	.05	.05	102.03	19-MAR-10 17:16	per0319050a
Perchlorate Isotope Ratio		2.97		19-MAR-10 17:16	per0319050a

Form 3

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

GEL Job No.(SDG): 10-2122

Perchlorate-101	.05	.05	100.21	19-MAR-10 17:16	per0319050a
Perchlorate	.05	.05	103.4	20-MAR-10 18:53	per0320011a
Perchlorate Isotope Ratio		3.21		20-MAR-10 18:53	per0320011a
Perchlorate-101	.05	.05	97.4	20-MAR-10 18:53	per0320011a
Perchlorate	.05	.05	104.36	20-MAR-10 20:18	per0320024a
Perchlorate Isotope Ratio		3.03		20-MAR-10 20:18	per0320024a
Perchlorate-101	.05	.05	104.4	20-MAR-10 20:18	per0320024a

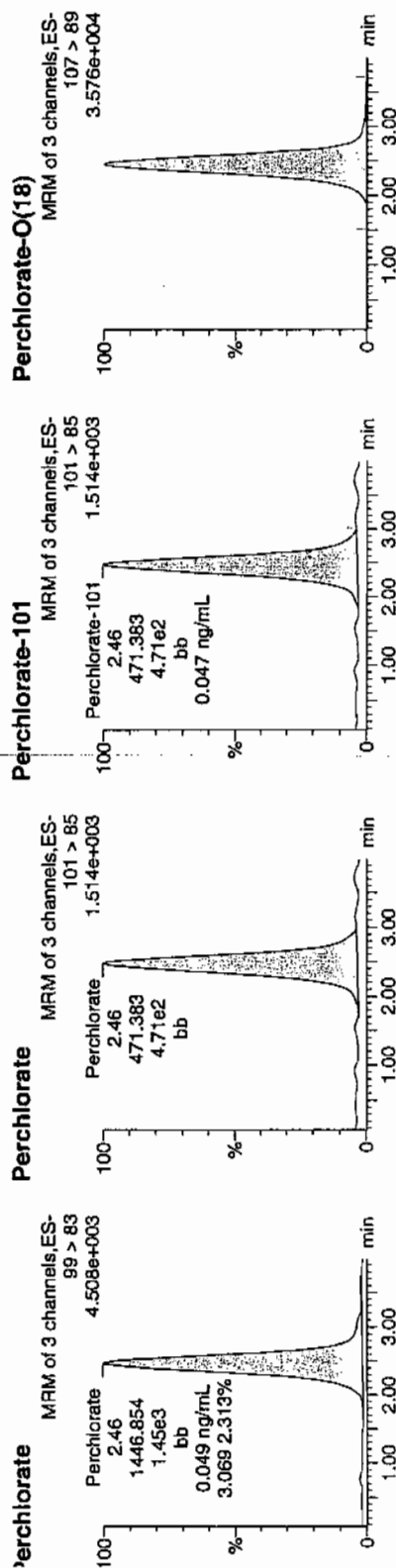
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Sample Name: per0319011a
Date: 19-Mar-2010
Time: 12:38:41
D: WCL100318-07CRI
File: 1:2,B

Perchlorate
6/23/2010



D	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
	Perchlorate	99 > 83	2.46	1446.854	1446.854	bb			0.0492	98.34	-1.86	227.011	3.07
	Perchlorate-101	101 > 85	2.46	471.383	471.383	bb			0.0467	93.42	-6.58	230.390	
	Perchlorate-O(18)	107 > 89	2.45	11715.260	11715.260	bb			0.4823	96.46	-3.54	5477.3...	

1446.854
471.383
= 3.0694

107
3/22/10

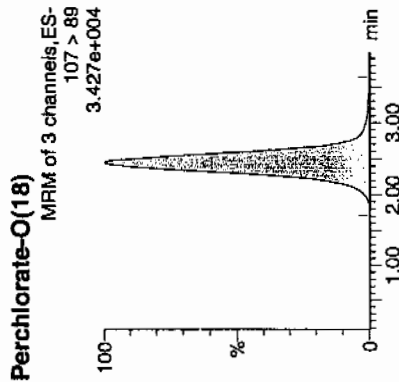
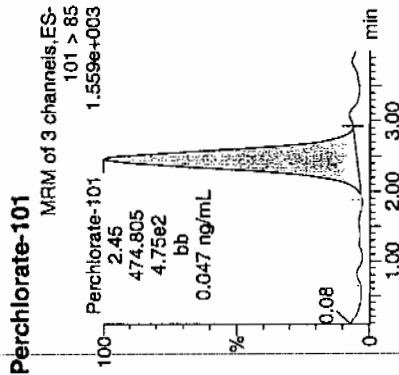
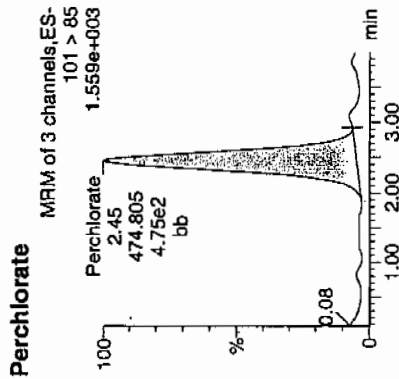
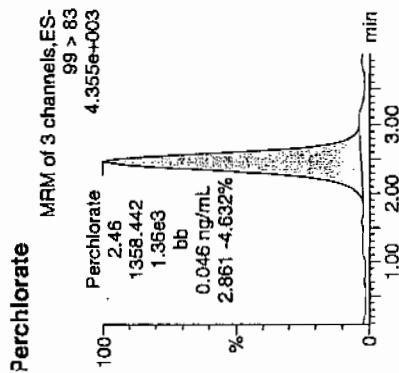
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319024a
Date: 19-Mar-2010
Time: 14:11:04
ID: WCL100318-07CRI
Vial: 1:2,B

Page 33-30-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion.Ratio
WCL100318-07CRI	Perchlorate	99 > 83	2.46	1358.442	1358.442	bb			0.0462	92.33	-7.67	252.858	2.86
WCL100318-07CRI	Perchlorate-101	101 > 85	2.45	474.805	474.805	bb			0.0470	94.10	-5.90	180.052	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	2.44	11259.898	11259.898	bb			0.4636	92.71	-7.29	2545.0...	

NOT
3/22/10

Quantify Sample Report MassLynx 4.0 SP4

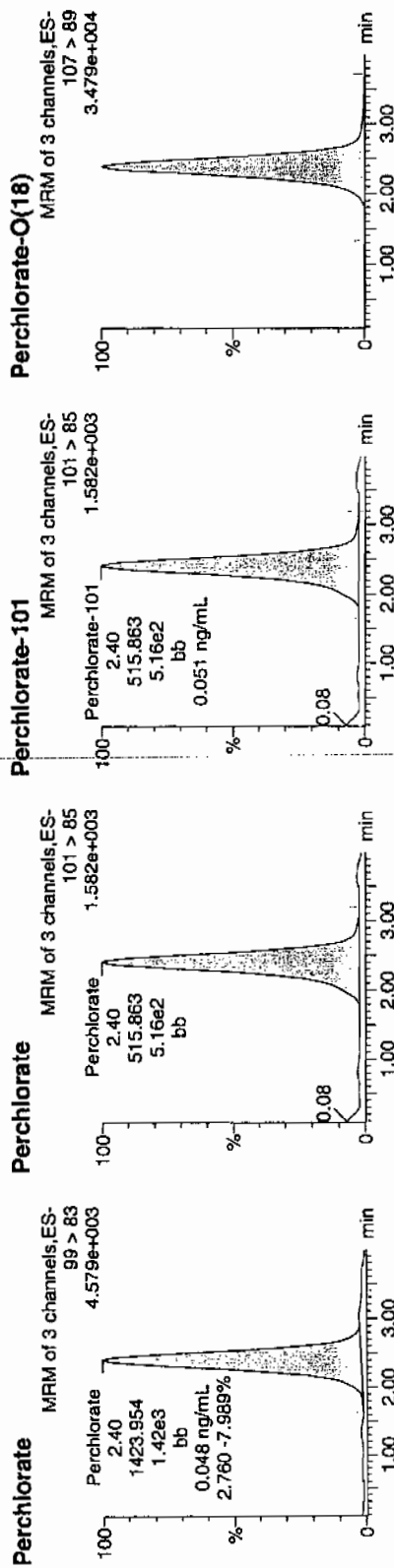
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319037a
Date: 19-Mar-2010
Time: 15:42:46
ID: WCL100318-07CRI
Vial: 1:2,B

*Per
WCL
03-20-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN	Int Ratio
WCL100318-07CRI	Perchlorate	99 > 83	2.40	1423.954	1423.954	bb			0.0484	96.78	-3.22	316.420	2.76
WCL100318-07CRI	Perchlorate-101	101 > 85	2.40	515.863	515.863	bb			0.0511	102.23	2.23	597.324	
WCL100318-07CRI	Perchlorate-Q(18)	107 > 89	2.76	11206.103	11206.103	bb			0.4614	92.27	-7.73	5504.6...	

*WCL
03-20-10*

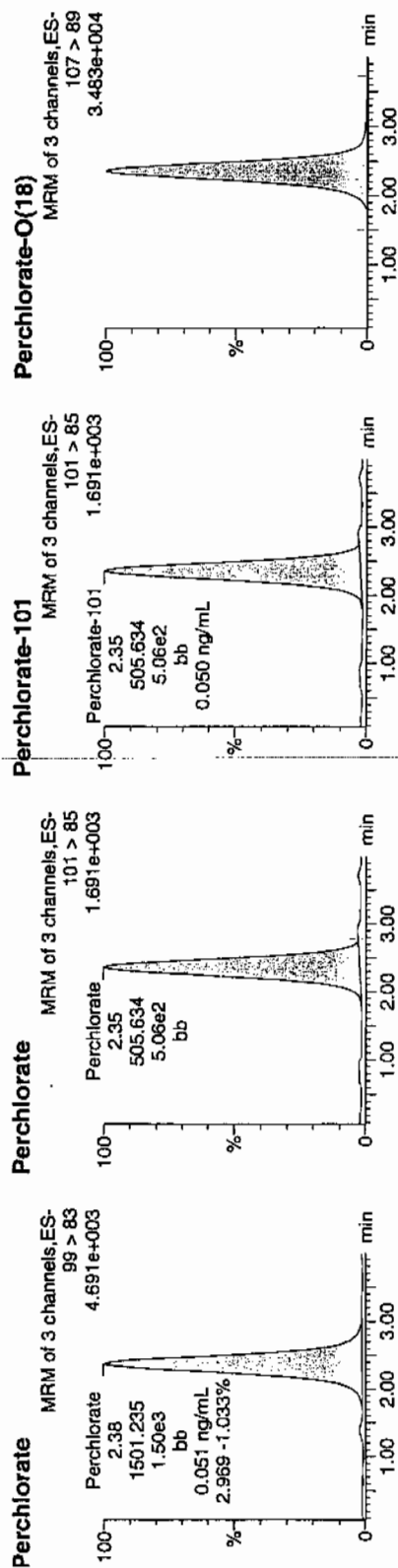
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319050a
Date: 19-Mar-2010
Time: 17:16:07
ID: WCL100318-07CRI
Vial: 1:2,B

Per
03-20-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	2.38	1501.235	1501.235	bb			0.0510	102.03	2.03	350.606	2.97
WCL100318-07CRI	Perchlorate-101	101 > 85	2.35	505.634	505.634	bb			0.0501	100.21	0.21	589.544	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	2.35	11203.558	11203.558	bb			0.4612	92.25	-7.75	5605.4...	

anti
3/20/10

3EL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

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

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

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

Name: per0320011a

Date: 20-Mar-2010

Time: 18:53:43

ID: WCL100318-07CRI

Vial: 1:2,B

Per
WCL
03-21-10



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

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

WCL
3/21/10

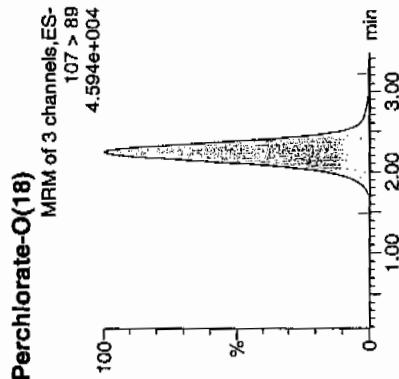
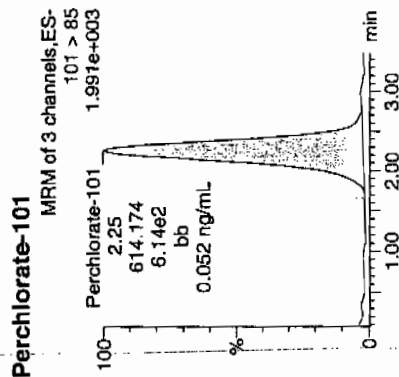
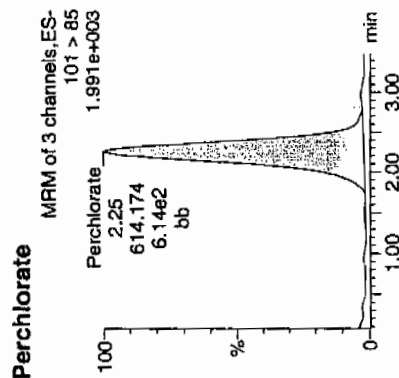
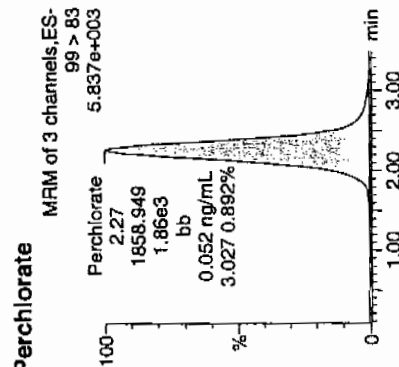
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

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

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

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

Perchlorate
0.052
3/22/10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
CL100318-07CRI	Perchlorate	2.27	1858.949	1858.949	bb			0.0522	104.36	4.36	64.555	3.03
CL100318-07CRI	Perchlorate-101	2.25	614.174	614.174	bb			0.0522	104.40	4.40	204.166	
CL100318-07CRI	Perchlorate-O(18)	2.24	14414.553	14414.553	bb			0.4930	98.59	-1.41	4982.6...	

4.47
3/22/10

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: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

MB

Date Received: 12-MAR-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 1202056676

Date Filtered: 12-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	19-MAR-10 12:46	per0319012a
	Perchlorate Isotope Ratio						1	19-MAR-10 12:46	per0319012a
14797-73-0	Perchlorate-101	.5	2	0.500	ug/kg	U	1	19-MAR-10 12:46	per0319012a
	Perchlorate-O(18)			4.45	ug/kg		1	19-MAR-10 12:46	per0319012a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

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

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319012a

Date: 19-Mar-2010

Time: 12:46:18

ID: 1202056676

Vial: 1:3,A

1202056676 | 955012 | 3020 | 103 | 11

03-20-10

Perchlorate

MRM of 3 channels, ES-

99 > 83

2.217e+002

Perchlorate

2.43

38.908

3.99e1

bb

0.001 ng/mL

1.948 -35.058%

1.11

3.18

3.54

min

1.00 2.00 3.00

100

%

0

1.00 2.00 3.00

min

1.00 2.00 3.00

100

%

0

1.00 2.00 3.00

min

1.00 2.00 3.00

100

%

0

1.00 2.00 3.00

min

1.00 2.00 3.00

100

%

0

Perchlorate-101

MRM of 3 channels, ES-

101 > 85

1.502e+002

Perchlorate-101

0.97

1.37

2.86

3.50

min

1.00 2.00 3.00

100

%

0

1.00 2.00 3.00

min

1.00 2.00 3.00

100

%

0

1.00 2.00 3.00

min

1.00 2.00 3.00

100

%

0

1.00 2.00 3.00

min

1.00 2.00 3.00

100

%

0

1.00 2.00 3.00

min

1.00 2.00 3.00

100

%

0

Perchlorate-O(18)

MRM of 3 channels, ES-

107 > 89

3.269e+004

Perchlorate-O(18)

9.348

14.470

2410.7...

min

1.00 2.00 3.00

100

%

0

1.00 2.00 3.00

min

1.00 2.00 3.00

100

%

0

1.00 2.00 3.00

min

1.00 2.00 3.00

100

%

0

1.00 2.00 3.00

min

1.00 2.00 3.00

100

%

0

1.00 2.00 3.00

min

1.00 2.00 3.00

100

%

0

ID	Name	Isotope	Area	Response	Peak	Mod	Time	Peak	Area	S/N	Ratio
1202056676	Perchlorate	99 > 83	2.43	39.908	bb		38.908	bb	0.0014	9.348	1.95
1202056676	Perchlorate-101	101 > 85	2.48	20.484	bb		20.484	bb	0.0020	14.470	
1202056676	Perchlorate-O(18)	107 > 89	2.45	10813.935	bb		10813.935	bb	0.4452	89.04	-10.96 2410.7...

0.0014
0.0020
0.4452

9.348
14.470
89.04

1.95

0.0014
0.0020
0.4452

9.348
14.470
89.04

1.95

0.0014
0.0020
0.4452

9.348
14.470
89.04

1.95

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: EPA 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 259007
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. LCS
 Date Received: 12-MAR-10
 GEL Job No (SDG): 10-2122
 GEL Sample ID: 1202056677
 Date Filtered: 12-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	2.03	ug/kg		1	19-MAR-10 12:53	per0319013a
	Perchlorate Isotope Ratio			3.05			1	19-MAR-10 12:53	per0319013a
14797-73-0	Perchlorate-101	.5	2	1.94	ug/kg	J	1	19-MAR-10 12:53	per0319013a
	Perchlorate-O(18)			4.91	ug/kg		1	19-MAR-10 12:53	per0319013a

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

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per031910a.qld

Last Altered: Saturday, March 20, 2010 1:22:43 PM Eastern Standard Time
Printed: Saturday, March 20, 2010 1:32:33 PM Eastern Standard Time

Name: per0319013a

Date: 19-Mar-2010

Time: 12:53:21

ID: 1202056677

Vial: 1:3,B

1202056677 | 1202056677 | 1202056677

603
25-2010

Perchlorate

MRM of 3 channels, ES-

99 > 83

1.849e+004

Perchlorate

2.46

5961.743

5.86e3

bb

0.203 ng/mL

3.050 1.671%

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

Perchlorate

MRM of 3 channels, ES-

101 > 85

6.098e+003

Perchlorate

2.46

1954.577

1.95e3

bb

0.194 ng/mL

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

Perchlorate-101

MRM of 3 channels, ES-

101 > 85

6.098e+003

Perchlorate-101

2.46

1954.577

1.95e3

bb

0.194 ng/mL

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

Perchlorate-O(18)

MRM of 3 channels, ES-

107 > 89

3.626e+004

Perchlorate-O(18)

2.46

1954.577

1.95e3

bb

0.194 ng/mL

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

100

%

0

min

1.00 2.00 3.00

ID	Name	Area	Height	Width	Area%	Response	Flags	Mod	Date	Mod	Time	ng/mL	Conc	Dev	SN	Ratio
1202056677	Perchlorate	99 > 83	2.46	5961.743	5961.743	bb						0.2026	101.30	1.30	2435.2...	3.05
1202056677	Perchlorate-101	101 > 85	2.46	1954.577	1954.577	bb						0.1937	96.84	-3.16	920.075	
1202056677	Perchlorate-O(18)	107 > 89	2.45	11935.557	11935.557	bb						0.4914	98.28	-1.72	3385.6...	

5961.743
24427
= 0.2026

not
3/22/10

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: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7405MS

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 1202056678

Date Filtered: 12-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	1.21	4.85	16.1	ug/kg		2	20-MAR-10 19:06	per0320013a
	Perchlorate Isotope Ratio			3.05			2	20-MAR-10 19:06	per0320013a
14797-73-0	Perchlorate-101	1.21	4.85	16.0	ug/kg		2	20-MAR-10 19:06	per0320013a
	Perchlorate-O(18)			13.0	ug/kg		2	20-MAR-10 19:06	per0320013a

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

*Concentration =

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

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

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

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

Name: per0320013a

Date: 20-Mar-2010

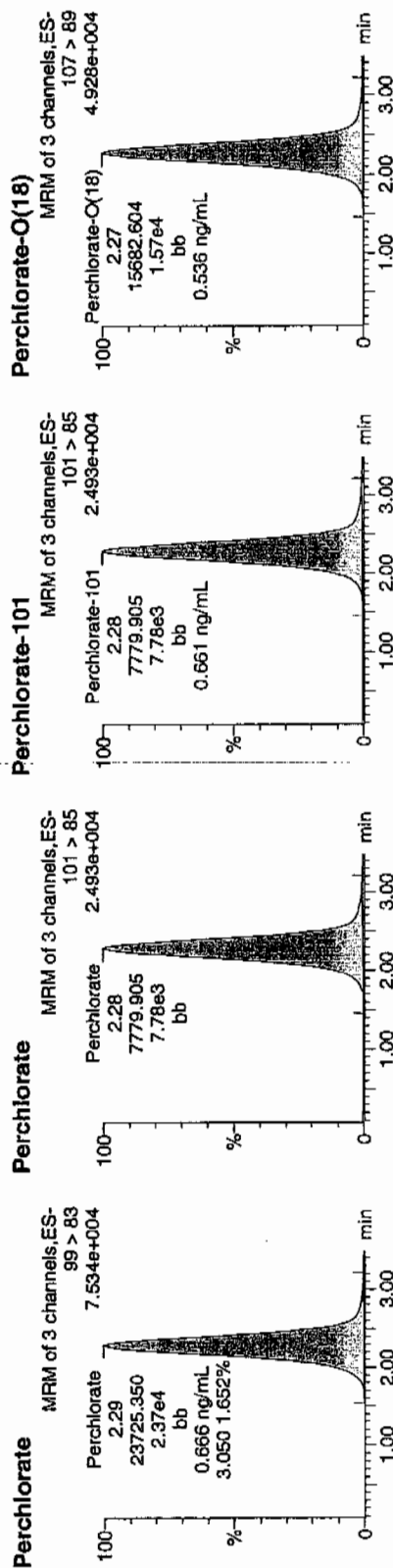
Time: 19:06:57

ID: 1202056678

Vial: 1:3,B

03-21-10

1202056678 | 30220 | MS | 2/10



- 1.33
X2
= 1.32
mff
3/22/10

ID	Name	Trace	RT	Area	Response	Flags	Mod	Date	Mod	Time	ng/mL	%Rec	Dev	SIN	Ratio
1202056678	Perchlorate	99 > 83	2.29	23725.350	23725.350	bb	bb				0.666	332.99	232.99	4539.0...	3.05
1202056678	Perchlorate-101	101 > 85	2.28	7779.905	7779.905	bb	bb				0.6612	330.62	230.62	455.893	
1202056678	Perchlorate-O(18)	107 > 89	2.27	15682.604	15682.604	bb	bb				0.5363	107.27	7.27	8031.3...	

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: 959007

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7405MSD

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122

GEL Sample ID: 1202056679

Date Filtered: 12-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	1.21	4.85	15.4	ug/kg		2	20-MAR-10 19:13	per0320014a
	Perchlorate Isotope Ratio			3.09			2	20-MAR-10 19:13	per0320014a
14797-73-0	Perchlorate-101	1.21	4.85	15.1	ug/kg		2	20-MAR-10 19:13	per0320014a
	Perchlorate-O(18)			13.0	ug/kg		2	20-MAR-10 19:13	per0320014a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

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

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

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

Name: per0320014a

Date: 20-Mar-2010

Time: 19:13:30

ID: 1202056679

Vial: 1-3,C

03-21-10

1202056679 | 959012 | 3020 | 15012 | 02

Perchlorate

MRM of 3 channels, ES-

99 > 83

7.264e+004

Perchlorate

2.28

22652.002

2.27e4

bb

0.636 ng/mL

3.081 3.017%

min

1.00 2.00 3.00

Perchlorate

MRM of 3 channels, ES-

101 > 85

2.337e+004

Perchlorate

2.28

7329.510

7.33e3

bb

min

1.00 2.00 3.00

Perchlorate-101

MRM of 3 channels, ES-

101 > 85

2.337e+004

Perchlorate-101

2.28

7329.510

7.33e3

bb

0.623 ng/mL

min

1.00 2.00 3.00

Perchlorate-O(18)

MRM of 3 channels, ES-

107 > 89

4.950e+004

Perchlorate-O(18)

2.27

15654.776

1.57e4

bb

0.535 ng/mL

min

1.00 2.00 3.00

ID	Name	Trace	RT	Area	Response	Flags	Mod	Date	Mod	Time	ng/mL	%Rec	Dev	Ratio
1202056679	Perchlorate	99 > 83	2.28	22652.002	22652.002	bb					0.6359	317.93	217.93	772.708
1202056679	Perchlorate-101	101 > 85	2.28	7329.510	7329.510	bb					0.6230	311.48	211.48	4082.1...
1202056679	Perchlorate-O(18)	107 > 89	2.27	15654.776	15654.776	bb					0.5354	107.07	7.07	1018.0...

1.27

x2

1.25

x2

3/22/10

MISCELLANEOUS DATA

Prep Logbook

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

Batch ID: 959007 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	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202056676 MB	12-MAR-2010 14:07:00	2	20	10
1202056677 LCS	12-MAR-2010 14:07:00	2	20	10
248118001	12-MAR-2010 14:07:00	2	20	10
248118002	12-MAR-2010 14:07:00	2	20	10
248118003	12-MAR-2010 14:07:00	2	20	10
248118004	12-MAR-2010 14:07:00	2	20	10
248118005	12-MAR-2010 14:07:00	2	20	10
248118006	12-MAR-2010 14:07:00	2	20	10
248118007	12-MAR-2010 14:07:00	2	20	10
248198001	12-MAR-2010 14:07:00	2	20	10
1202056678 MS (248198001)	12-MAR-2010 14:07:00	2	20	10
1202056679 MSD (248198001)	12-MAR-2010 14:07:00	2	20	10
248198002	12-MAR-2010 14:07:00	2	20	10
248198003	12-MAR-2010 14:07:00	2	20	10
248198004	12-MAR-2010 14:07:00	2	20	10
248198005	12-MAR-2010 14:07:00	2	20	10
248198006	12-MAR-2010 14:07:00	2	20	10
248198007	12-MAR-2010 14:07:00	2	20	10
248198008	12-MAR-2010 14:07:00	2	20	10
248198009	12-MAR-2010 14:07:00	2	20	10
248198010	12-MAR-2010 14:07:00	2	20	10
248198011	12-MAR-2010 14:07:00	2	20	10
248198012	12-MAR-2010 14:07:00	2	20	10
1202056681 ICS	12-MAR-2010 14:07:00	2	20	10

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments
ICS	1202056681	10 ug/L ICV/CCV Second Source	UCL100311-01.1	.4	mL	Desalting Cartridges used: 100216-1-H & 100211-1-Ba
LCS	1202056677	10 ug/L ICV/CCV Second Source	UCL100311-01.1	.4	mL	
MSD	1202056679	10 ug/L ICV/CCV Second Source	UCL100311-01.1	.4	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 03/19/10
 Extr. Injection Volume: 20uL
 Sequence Number: per031910a
 Initial Calibration Date: 03/19/10

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

Reviewed BY: *mtf*
 Date: 3/24/10
 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
per0319001a	IPB001	CWW	3/19/2010 11:27			1		USE	B
per0319002a	IPB001	CWW	3/19/2010 11:34			1		USE	B
per0319003a	WCLICAL-01	CWW	3/19/2010 11:41			1		USE	I
per0319004a	WCLICAL-02	CWW	3/19/2010 11:48			1		USE	I
per0319005a	WCLICAL-03	CWW	3/19/2010 11:55			1		USE	I
per0319006a	WCLICAL-04	CWW	3/19/2010 12:03			1		USE	I
per0319007a	WCLICAL-05	CWW	3/19/2010 12:10			1		USE	I
per0319008a	IPB002	CWW	3/19/2010 12:17			1		USE	B
per0319009a	WCLICV	CWW	3/19/2010 12:24			1		USE	C
per0319010a	IPB003	CWW	3/19/2010 12:31			1		USE	B
per0319011a	WCLCRI	CWW	3/19/2010 12:38			1		USE	C
per0319012a	1202056676	CWW	3/19/2010 12:46	959012	VARIOUS	1	LANL	USE	S
per0319013a	1202056677	CWW	3/19/2010 12:53	959012	VARIOUS	1	LANL	USE	S
per0319014a	1202056681	CWW	3/19/2010 13:00	959012	VARIOUS	1	LANL	USE	S
per0319015a	248118001	CWW	3/19/2010 13:07	959012	10-2093-1	1	LANL	USE	S
per0319016a	248118002	CWW	3/19/2010 13:14	959012	10-2093-1	1	LANL	USE	S
per0319017a	248118003	CWW	3/19/2010 13:21	959012	10-2093-1	1	LANL	USE	S
per0319018a	248118004	CWW	3/19/2010 13:28	959012	10-2093-1	1	LANL	USE	S
per0319019a	248118005	CWW	3/19/2010 13:35	959012	10-2093-1	1	LANL	USE	S
per0319020a	248118006	CWW	3/19/2010 13:42	959012	10-2093-1	1	LANL	USE	S
per0319021a	248118007	CWW	3/19/2010 13:49	959012	10-2093-1	1	LANL	USE	S
per0319022a	WCLCCV	CWW	3/19/2010 13:56			1		USE	C
per0319023a	IPB004	CWW	3/19/2010 14:04			1		USE	B
per0319024a	WCLCRI	CWW	3/19/2010 14:11			1		USE	C
per0319025a	248198001	CWW	3/19/2010 14:18	959012	10-2122	1	LANL	DUSE-DL	S
per0319026a	1202056678	CWW	3/19/2010 14:25	959012	10-2122	1	LANL	DUSE-DL	S
per0319027a	1202056679	CWW	3/19/2010 14:32	959012	10-2122	1	LANL	DUSE-DL	S
per0319028a	248198002	CWW	3/19/2010 14:39	959012	10-2122	1	LANL	DUSE-DL	S
per0319029a	248198003	CWW	3/19/2010 14:46	959012	10-2122	1	LANL	DUSE-DL	S

per0319030a	248198004	CWW	3/19/2010 14:53	959012	10-2122	1	LANL	DUSE-DL	S
per0319031a	248198005	CWW	3/19/2010 15:00	959012	10-2122	1	LANL	DUSE-DL	S
per0319032a	248198006	CWW	3/19/2010 15:07	959012	10-2122	1	LANL	DUSE-RA	S
per0319033a	248198007	CWW	3/19/2010 15:14	959012	10-2122	1	LANL	DUSE-DL	S
per0319034a	248198008	CWW	3/19/2010 15:21	959012	10-2122	1	LANL	DUSE-RA	S
per0319035a	WCLCCV	CWW	3/19/2010 15:28			1		USE	C
per0319036a	IPB005	CWW	3/19/2010 15:35			1		USE	B
per0319037a	WCLCRI	CWW	3/19/2010 15:42			1		USE	C
per0319038a	248198009	CWW	3/19/2010 15:49	959012	10-2122	1	LANL	USE	S
per0319039a	248198010	CWW	3/19/2010 15:56	959012	10-2122	1	LANL	USE	S
per0319040a	248198011	CWW	3/19/2010 16:03	959012	10-2122	1	LANL	USE	S
per0319041a	248198012	CWW	3/19/2010 16:11	959012	10-2122	1	LANL	USE	S
per0319042a	IPB006	CWW	3/19/2010 16:18			1		USE	B
per0319043a	1202056685	CWW	3/19/2010 16:25	959022	10-2129	1	LANL	USE	S
per0319044a	1202056686	CWW	3/19/2010 16:32	959022	10-2129	1	LANL	USE	S
per0319045a	1202056689	CWW	3/19/2010 16:39	959022	10-2129	1	LANL	USE	S
per0319046a	248233001	CWW	3/19/2010 16:46	959022	10-2129	1	LANL	USE	S
per0319047a	1202056687	CWW	3/19/2010 16:54	959022	10-2129	1	LANL	USE	S
per0319048a	WCLCCV	CWW	3/19/2010 17:01			1		USE	C
per0319049a	IPB007	CWW	3/19/2010 17:08			1		USE	B
per0319050a	WCLCRI	CWW	3/19/2010 17:16			1		USE	C
								USE	
								DUSE-RA	
								DUSE-RA	
								DUSE-RA	
								DUSE-RA	
								USE	
								USE	
								USE	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

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

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

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

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

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

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

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

GEL Laboratories LLC
Form GEL-DER

DER Report No.: 807337

Revision No.: 2

DATA EXCEPTION REPORT

Mo.Day Yr. 21-MAR-10	Division: Federal	Quality Criteria: Specifications	Type: Process
Instrument Type: LC-MS/MS	Test / Method: SW846 6850 Modified	Matrix Type: Solid	Client Code: LANL010
Batch ID: 959012	Sample Numbers: See below		
Potentially affected work order(s)(SDG): 248118(10-2093-1),248198(10-2122) Application Issues: Failed Recovery for MS/PS			
Specification and Requirements Exception Description:		DER Disposition:	
1. High recovery of Perchlorate-101 was observed in 1202056678 (MS). The recovery was 127% and the acceptance range is 75-125%.		1. The high recovery may be the result of the background concentration present in the parent sample, 248198001, and the need to dilute all at 1:2 prior to analysis.	

Originator's Name:

Charles Wilson 21-MAR-10

Data Validator/Group Leader:

Herbert Maier 23-MAR-10

Isotope Ratio Criteria

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

2.31-3.85

Tune Criteria

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

LC/MS/MS PERCHLORATE ANALYSIS

**Perchlorate by LC/MSMS
Los Alamos National Laboratory (LANL)
SDG 10-2122-1**

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: 959047

Prep Batch Number: 959046

Sample Analysis

Sample ID	Client ID
248199001	RE36-10-7529
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.

10-2122-1-PERLCMS

Page 1 of 4

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

Client sample 248162002 (RE46-10-13209) from SDG 0-2103 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.

10-2122-1-PERLCMS

Page 2 of 4

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 except for dilutions.

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 sample in this SDG was 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: Heather N. Mace Date: 02/16/10

SAMPLE DATA SUMMARY

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.

RE36-10-7529

Date Received: 26-FEB-10

GEL Job No (SDG): 10-2122-1

GEL Sample ID: 248199001

Date Filtered: 05-MAR-10

Injection Volume (uL): 20

%Solids:

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 11:07	per0308129a
	Perchlorate Isotope Ratio						1	09-MAR-10 11:07	per0308129a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 11:07	per0308129a
	Perchlorate-O(18)			0.459	ug/L		1	09-MAR-10 11:07	per0308129a

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

*Concentration =

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

QUALITY CONTROL SUMMARY

Perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-2122-1

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): 10-2122-1

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.

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

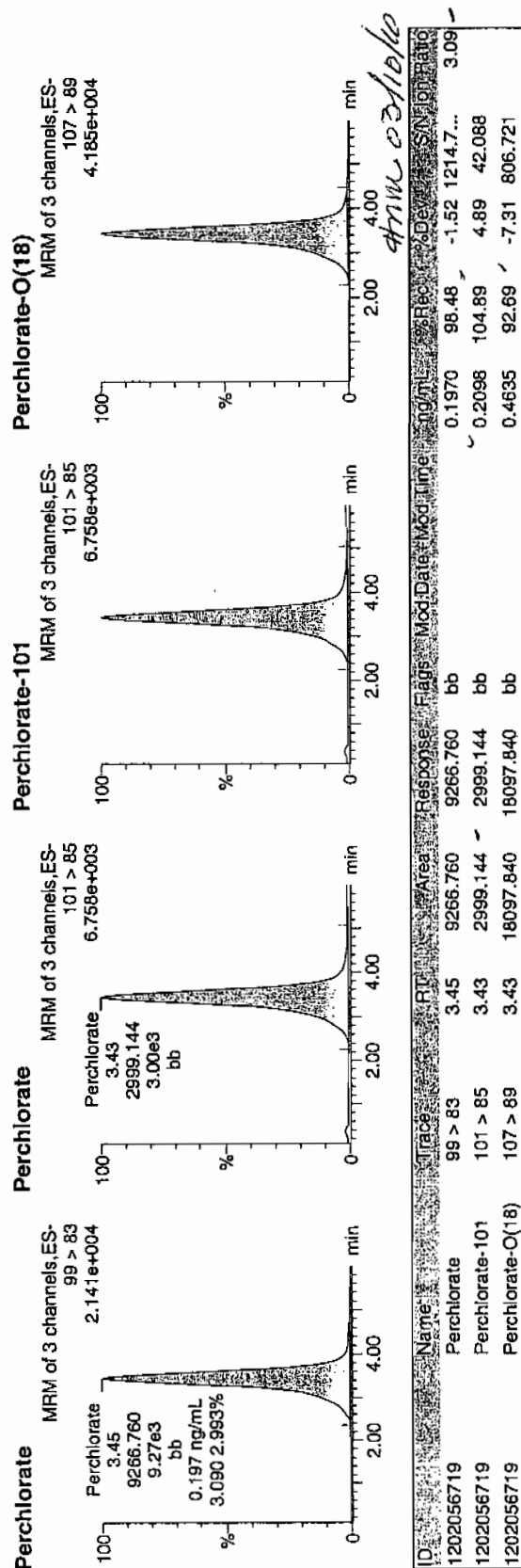
Name: per0308109a

Date: 09-Mar-2010

Time: 08:06:14

ID: 1202056719

Vial: 3:1,C



Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10-2122-1

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-Q(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): 10-2122-1

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: Charles W. Wilson

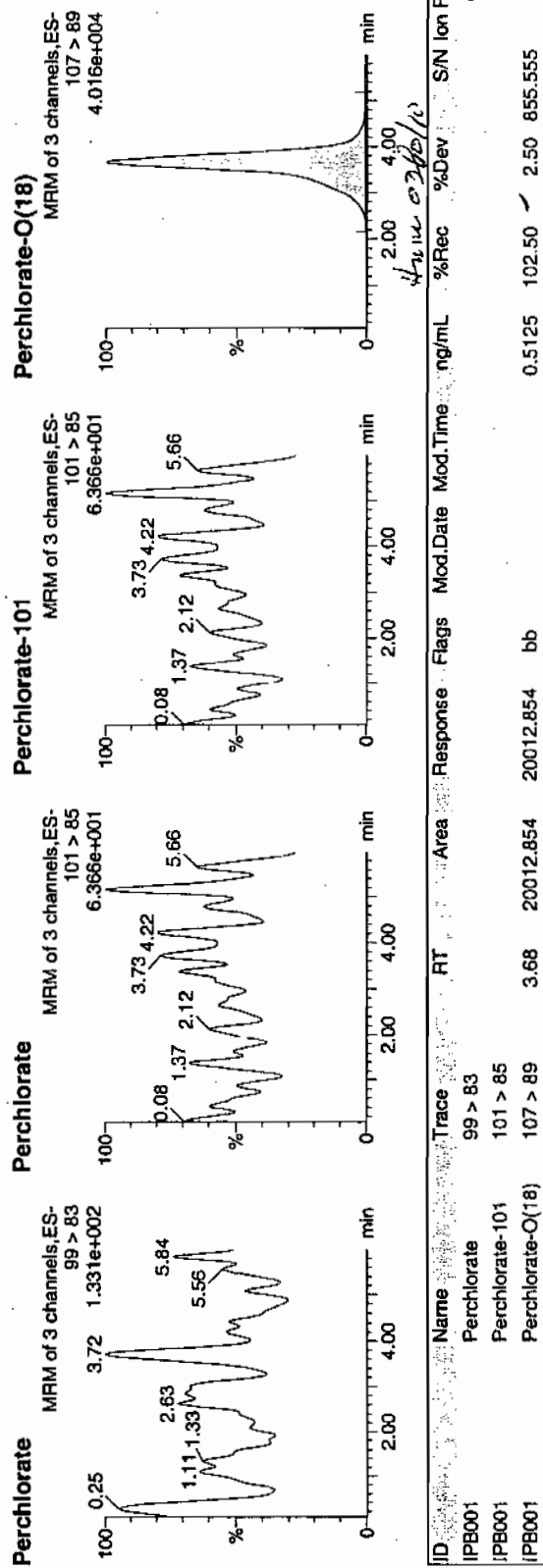
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Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

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

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

03-09-10



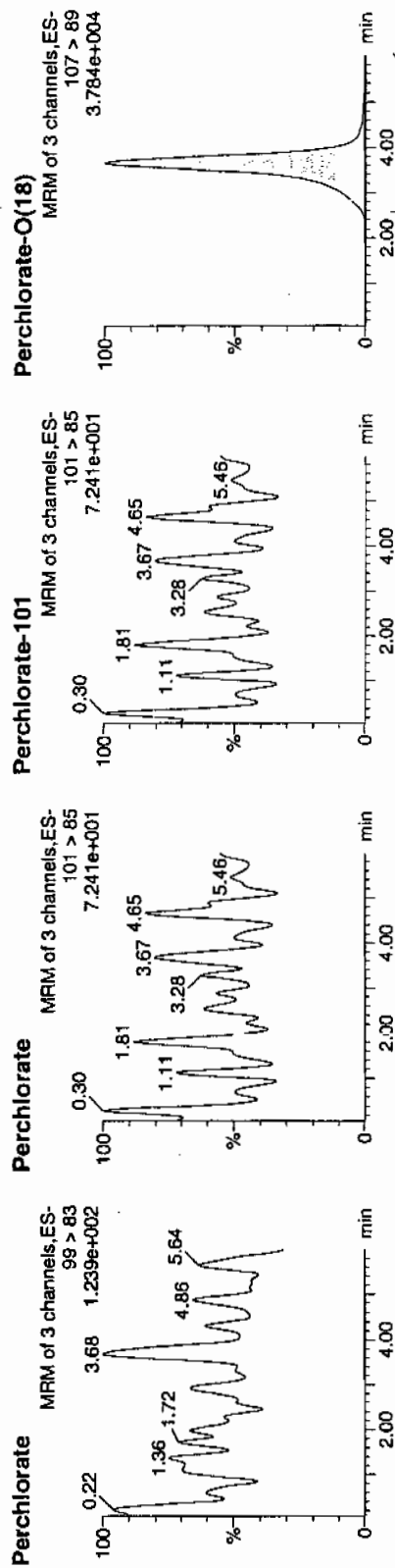
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

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

Name: 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	ng/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

GEL Job No.(SDG): 10-2122-1

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	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

Form 4

P perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-2122-1

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

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-2122-1

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

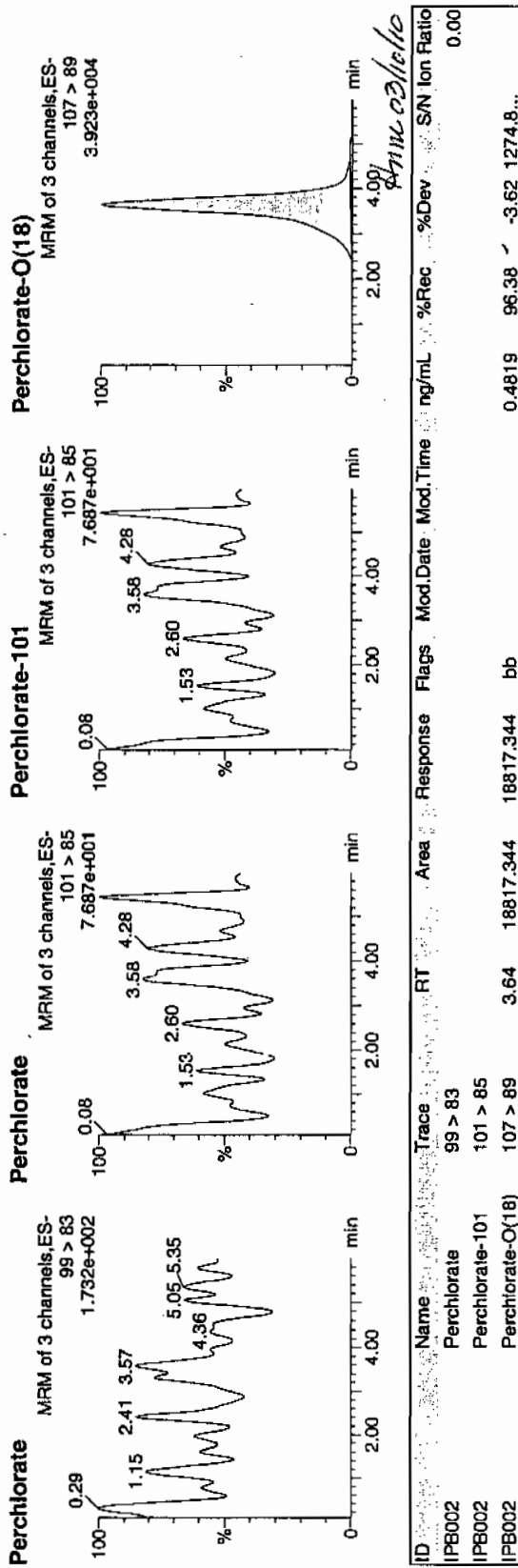
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

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	S/N	Ion Ratio
IPB002	Perchlorate	99 > 83											0.00
IPB002	Perchlorate-101	101 > 85											
IPB002	Perchlorate-O(18)	107 > 89	3.64	18817.344	18817.344	bb			0.4819	96.38	-3.62	1274.8...	

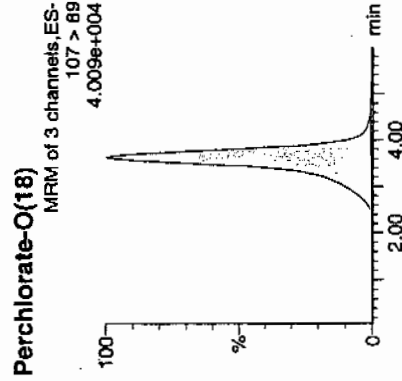
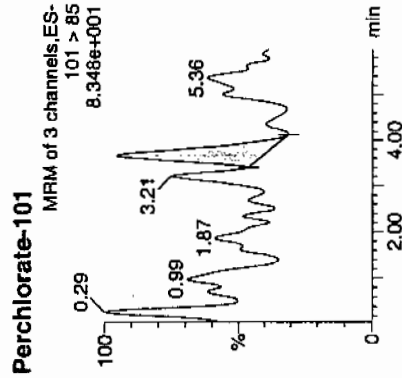
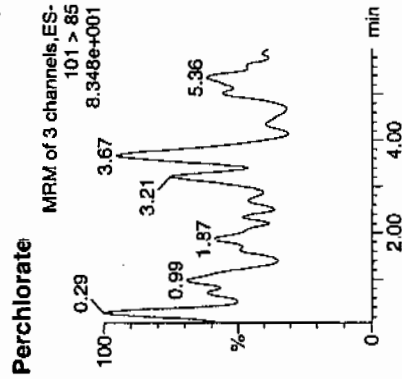
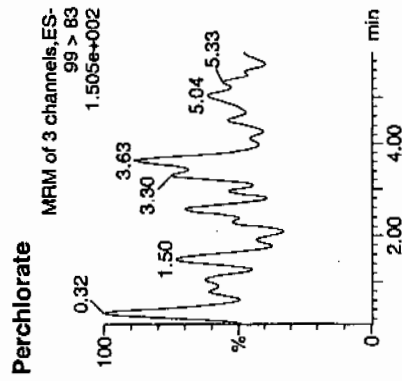
Quantity Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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: per0308010a
Date: 08-Mar-2010
Time: 17:06:27
ID: IPB003
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
IPB003	Perchlorate	99 > 83											0.00
IPB003	Perchlorate-101	101 > 85	3.67	15.122	15.122	bb			0.0011				7.773
IPB003	Perchlorate-O(18)	107 > 89	3.63	19271.525	19271.525	bb			0.4935	98.70	-1.30	2273.8...	

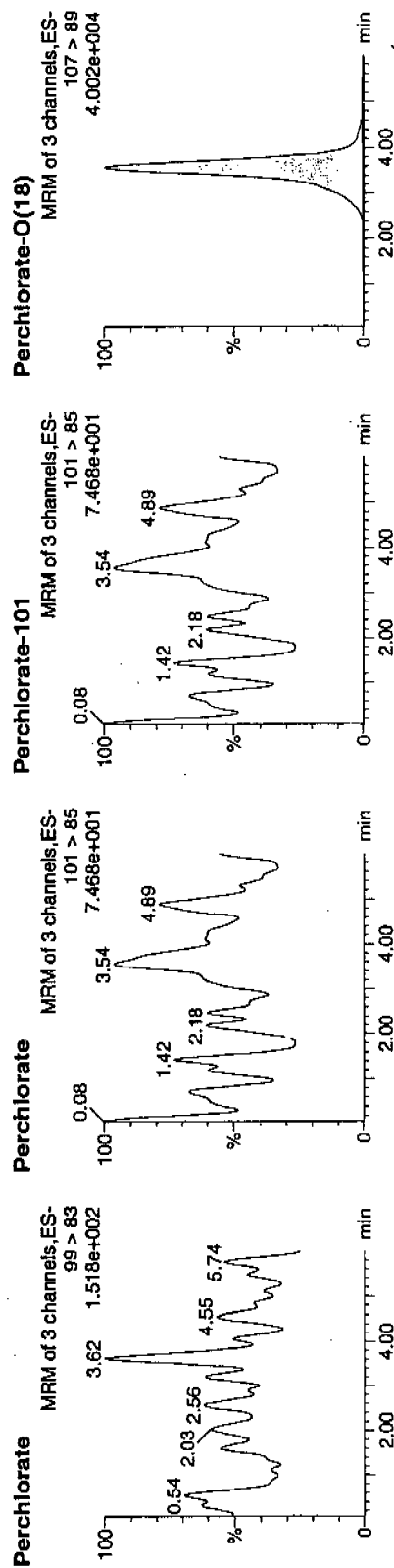
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

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: 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	S/N	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...	

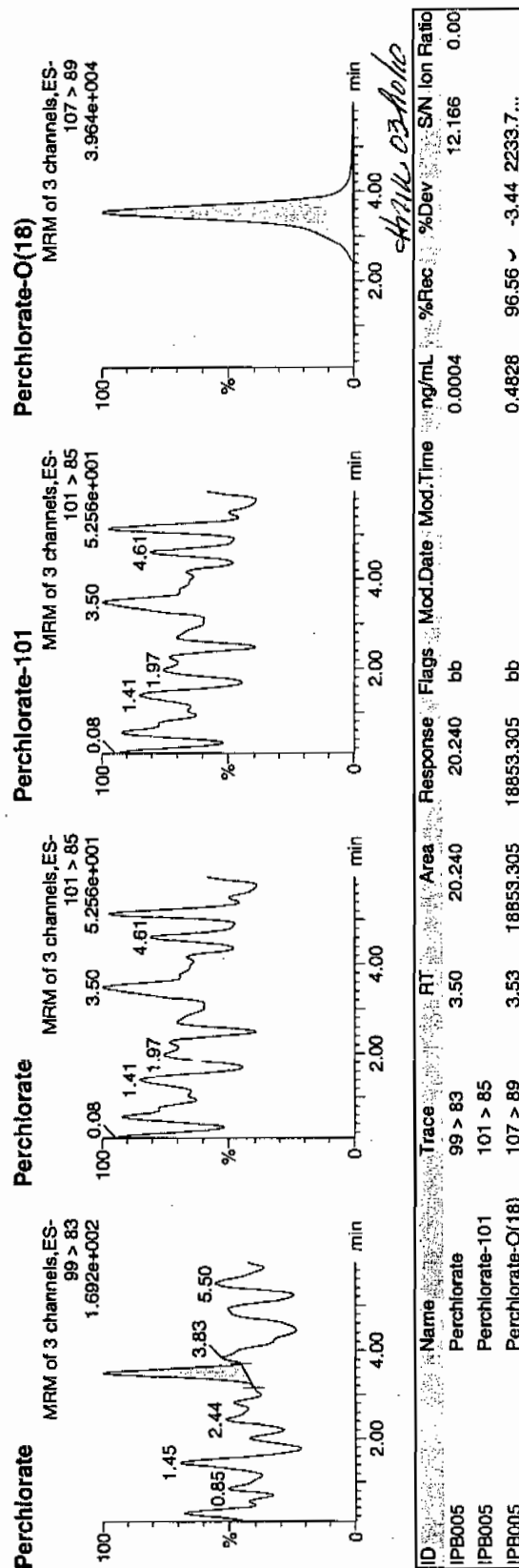
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

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

0309-10



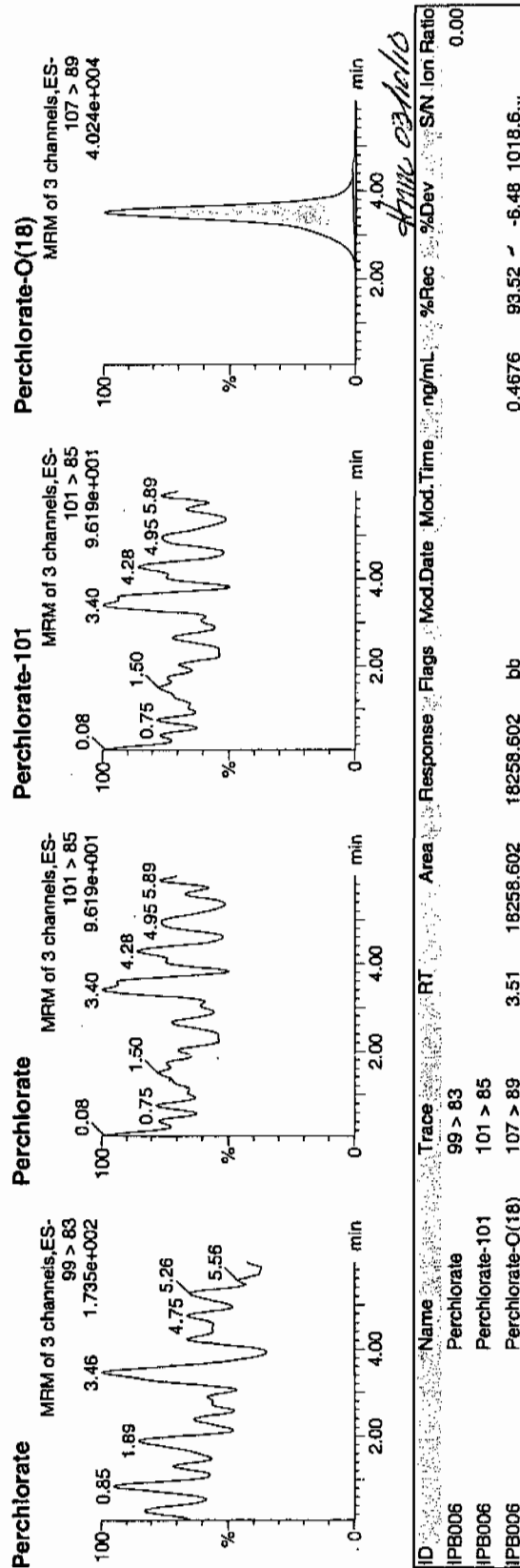
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

WJ
03-09-10



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: per0308052a

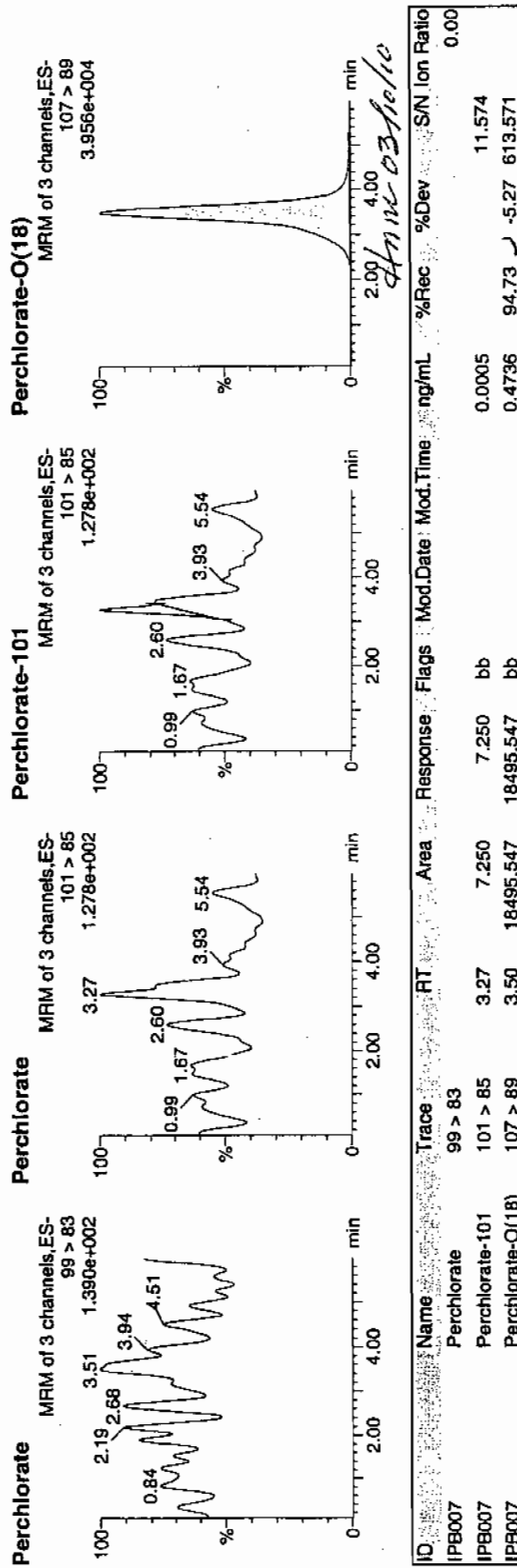
Date: 08-Mar-2010

Time: 23:27:41

ID: IPB007

Vial: 1:1,A

03-04-10



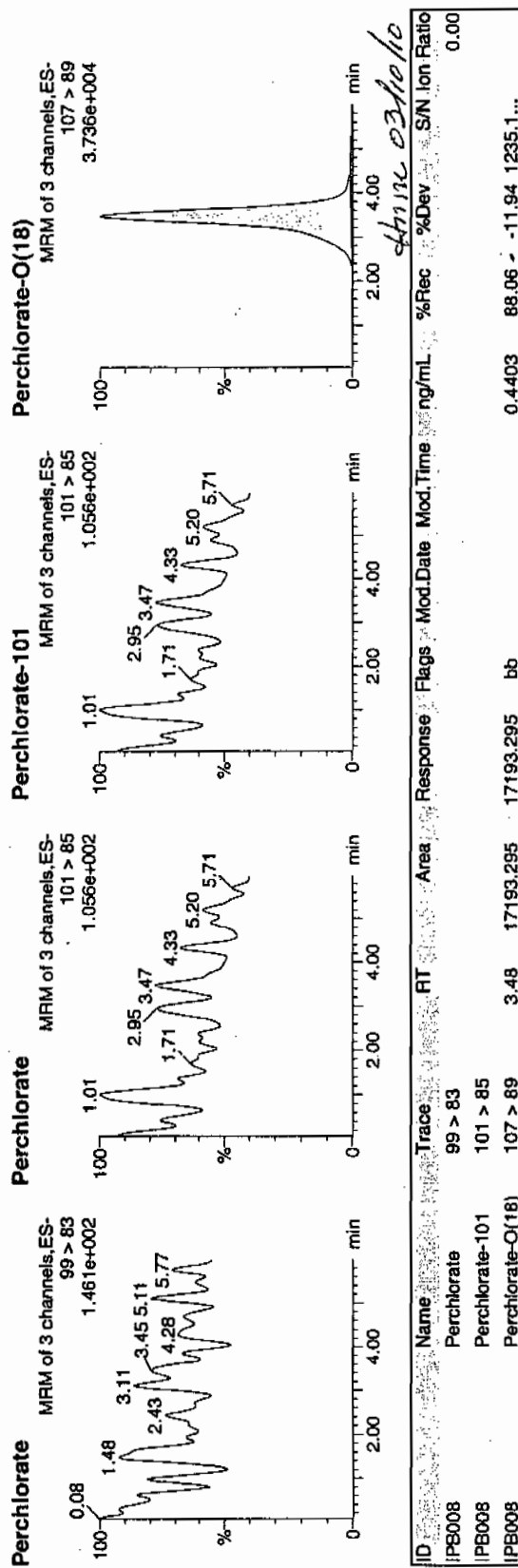
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

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

03-09-10



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

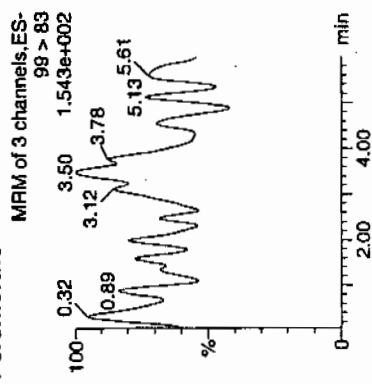
Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

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

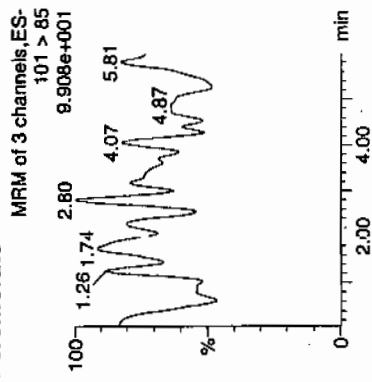
Name: per0308074a
Date: 09-Mar-2010
Time: 02:48:02
ID: IPB009
Vial: 1:1,A

WS
03-04-10

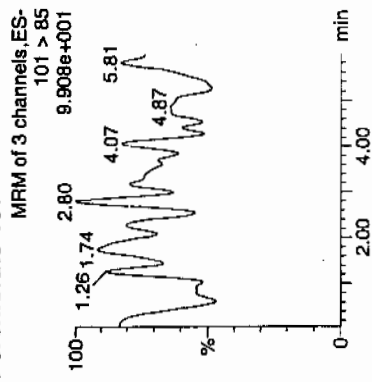
Perchlorate



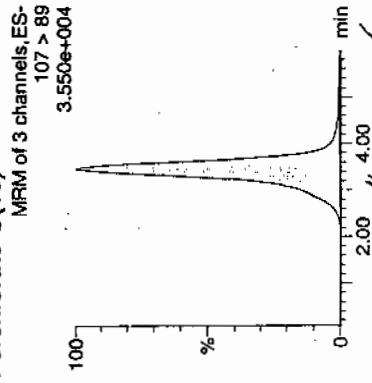
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB009	Perchlorate	99 > 83											0.00
IPB009	Perchlorate-101	101 > 85											
IPB009	Perchlorate-O(18)	107 > 89	3.47	16711.643	16711.643	bb			0.4280	85.59	-14.41	2348.6...	

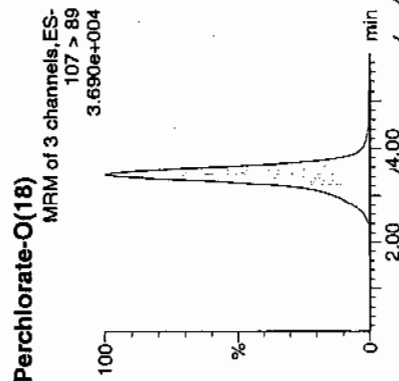
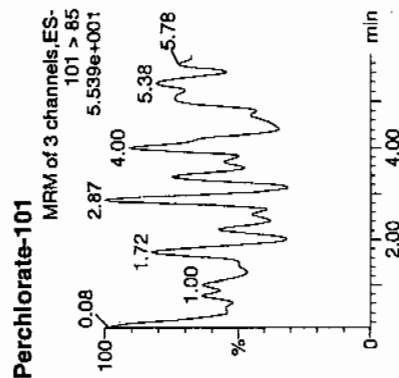
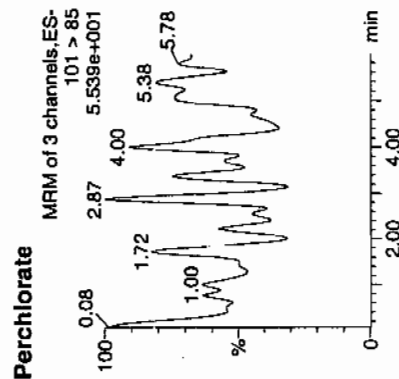
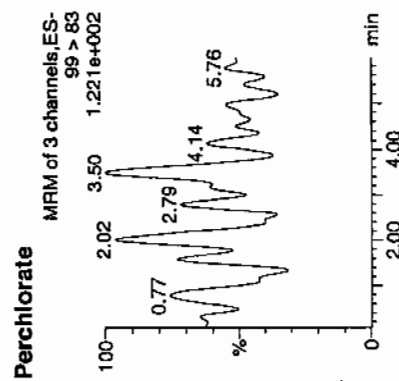
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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 04-10



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

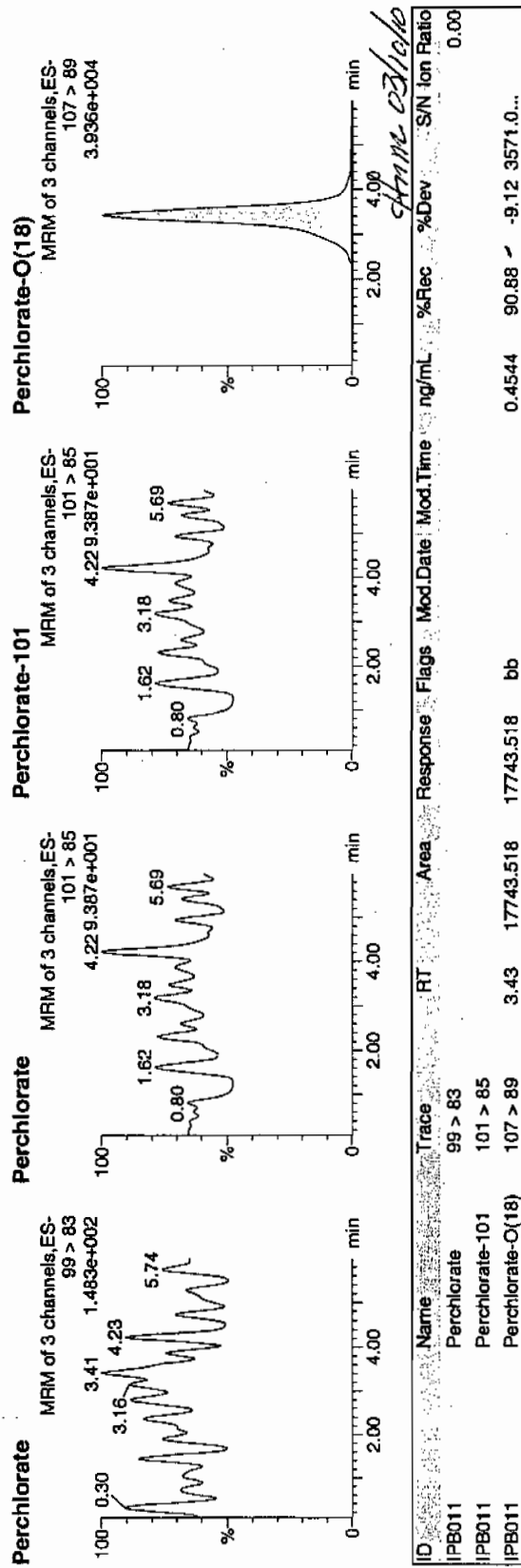
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

03.04-10



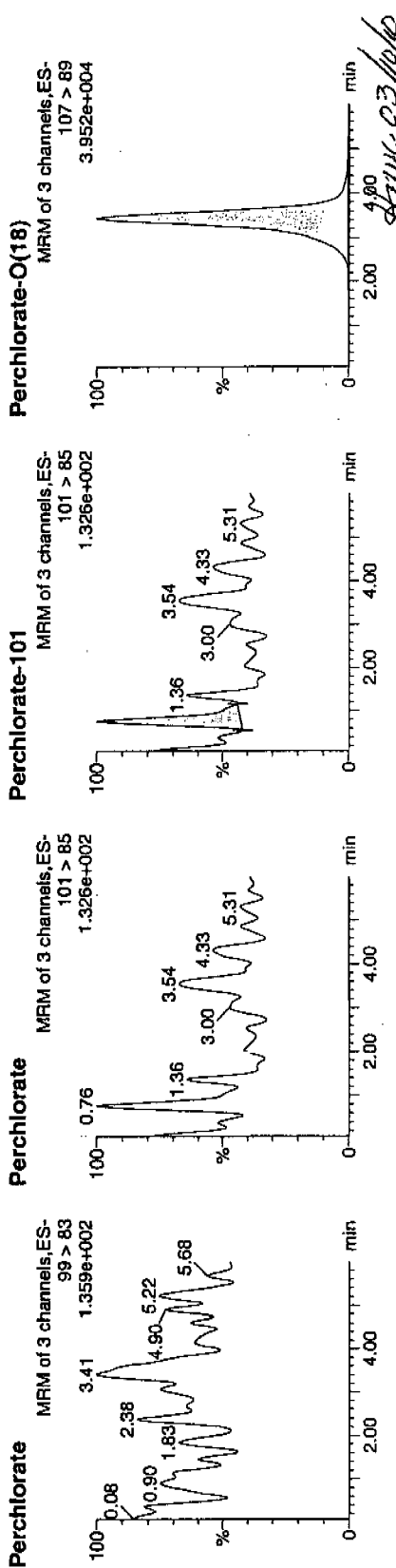
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

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: per0308106a
Date: 09-Mar-2010
Time: 07:38:40
ID: IPB012
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
IPB012	Perchlorate	99 > 83											0.00
IPB012	Perchlorate-101	101 > 85	0.76	16.818	16.818	bb			0.0012			11.451	
IPB012	Perchlorate-O(18)	107 > 89	3.45	17985.385	17985.385	bb			0.4606	92.12	-7.88	1747.9...	

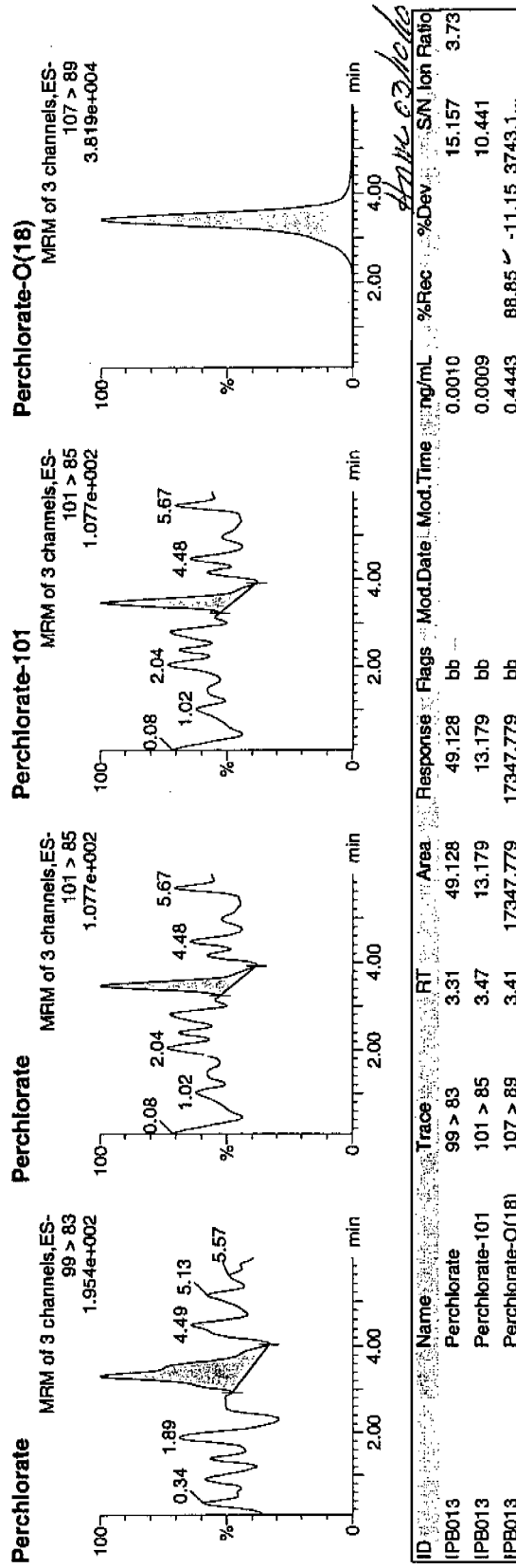
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

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

03-09-10



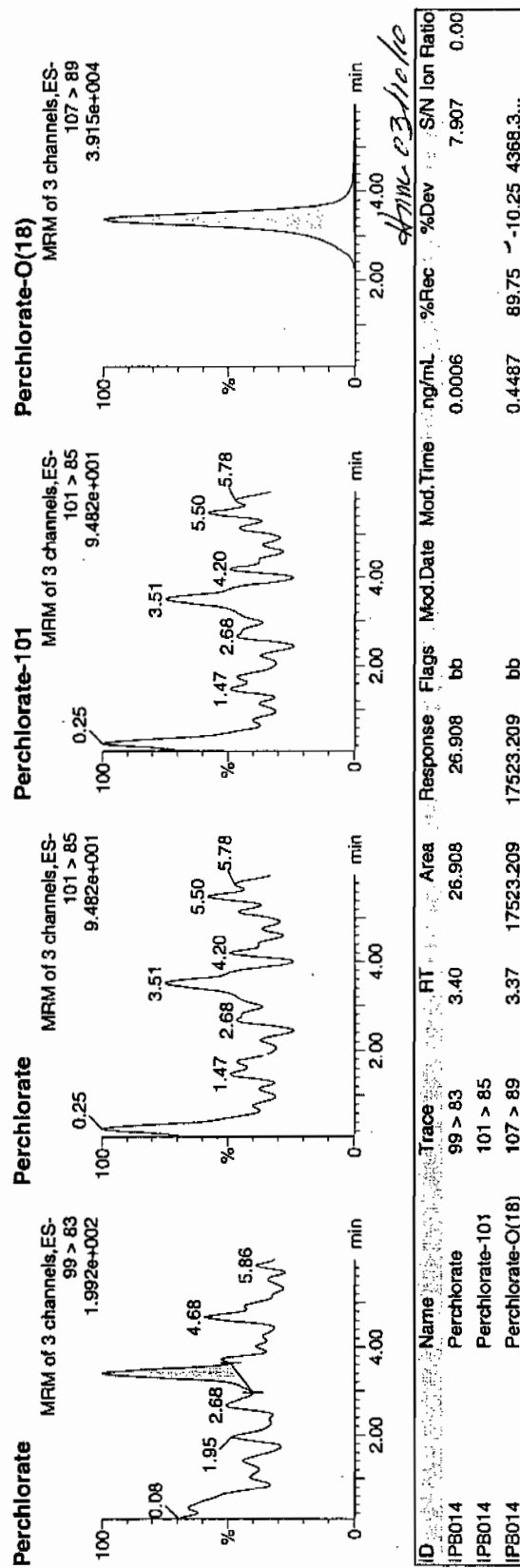
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

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: per0308126a
Date: 09-Mar-2010
Time: 10:40:29
ID: IPB014
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
IPB014	Perchlorate	99 > 83	3.40	26.908	26.908	bb			0.0006			7.907	0.00
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...	

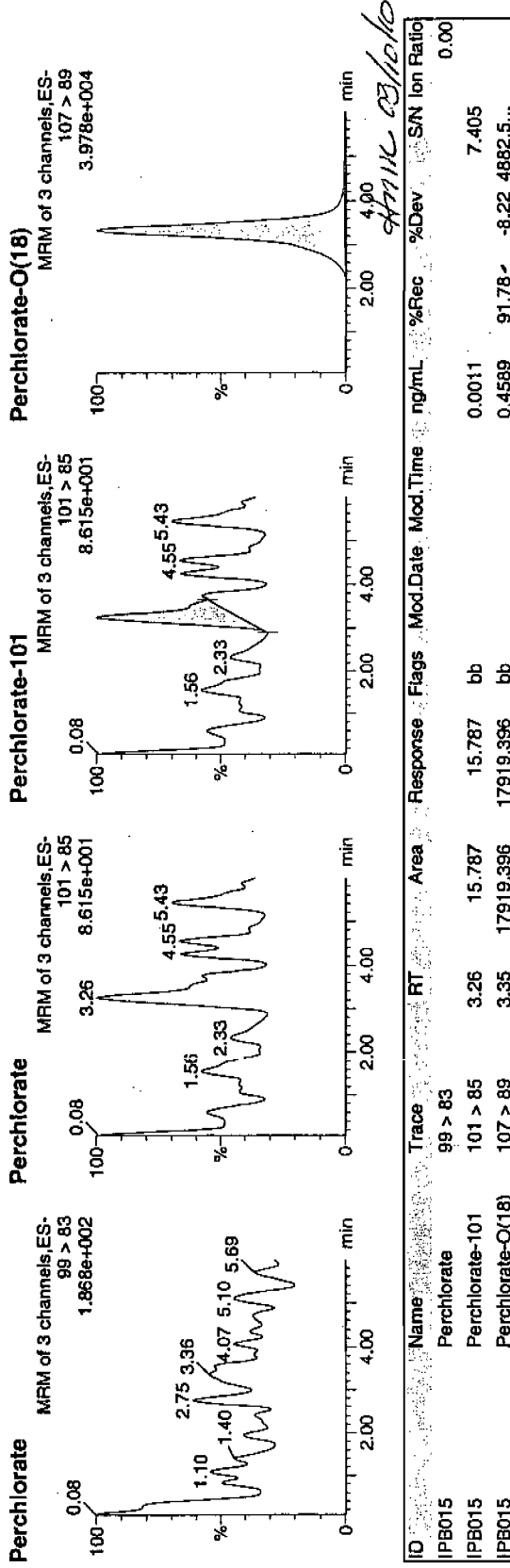
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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: per0308138a
Date: 09-Mar-2010
Time: 12:29:15
ID: IPB015
Vial: 1:1,A

Handwritten: 03-09-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB015	Perchlorate	99 > 83											0.00
IPB015	Perchlorate-101	101 > 85	3.26	15.787	15.787	bb			0.0011	91.78	-8.22	7.405	
IPB015	Perchlorate-O(18)	107 > 89	3.35	17919.396	17919.396	bb			0.4589			4882.5...	

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
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; 3620.4515	100
; 3770.3457	100
; 3920.2400	100

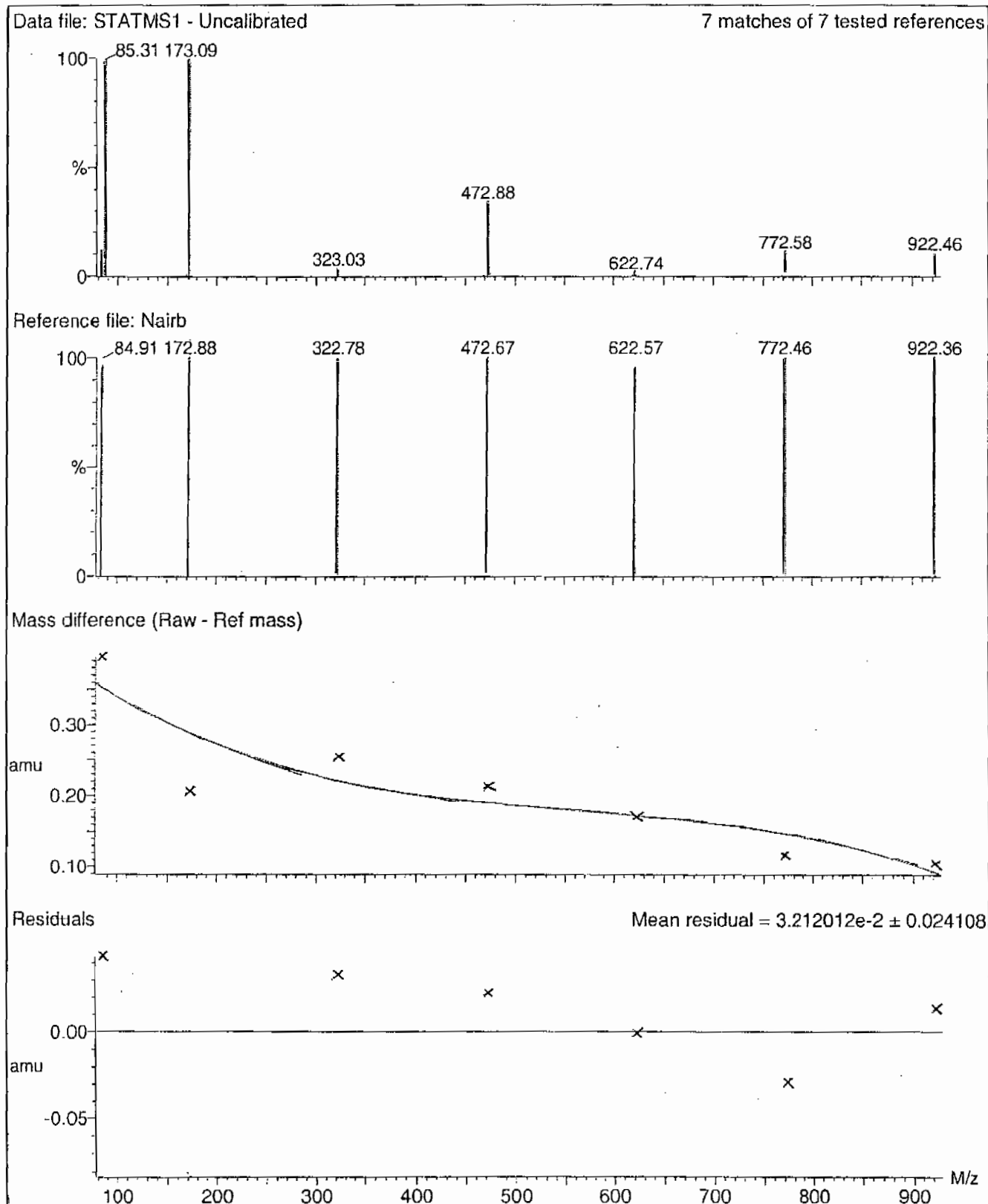
QUARTO ULTIMA: nairb_01_08_08.cal

Calibration Report - MS1 Static

Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

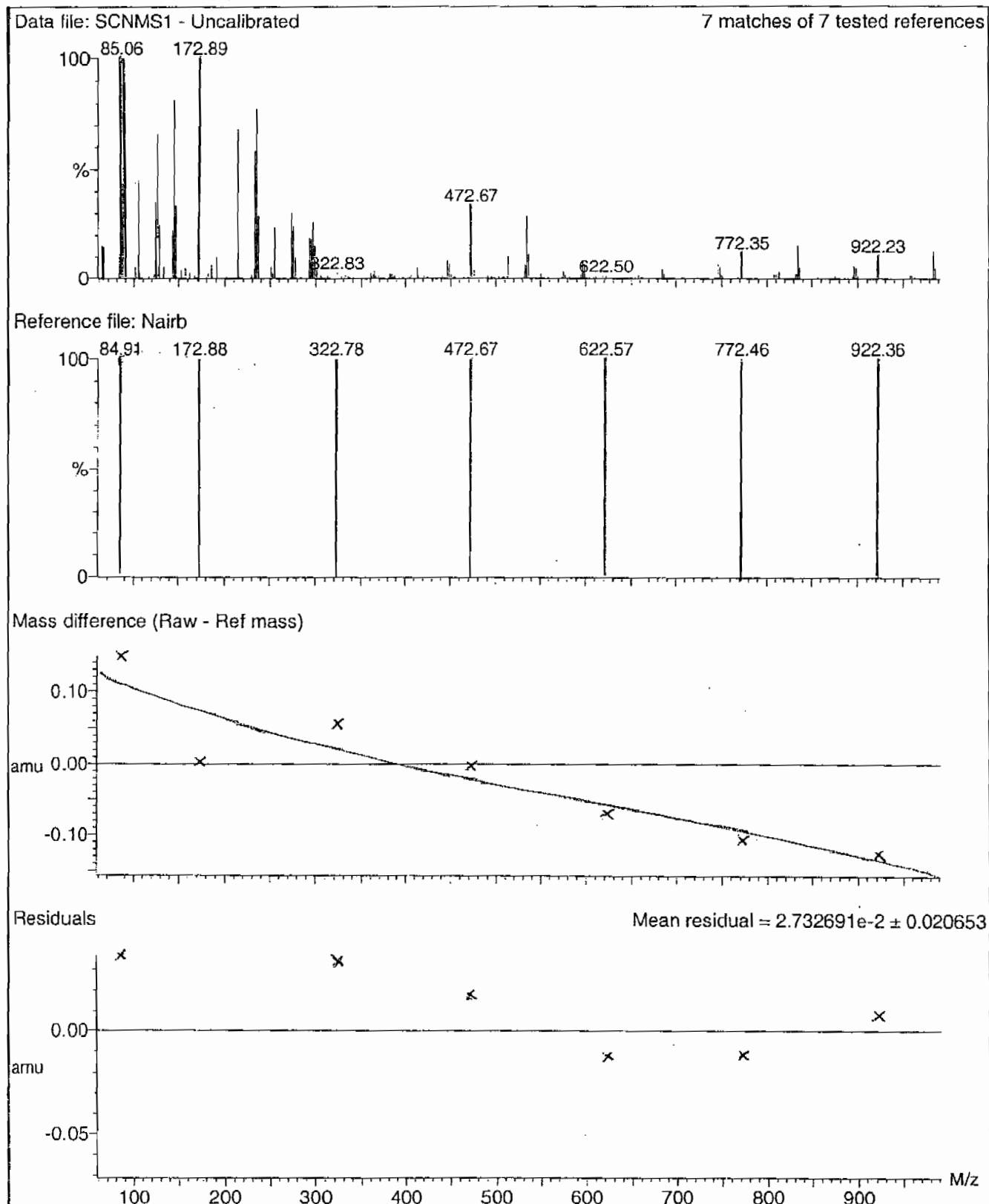
PEAKS HIGHLIGHTED BY CURV 01-05-08



Calibration Report - MS1 Scanning

Page 1 of 1

Printed: Tue Jan 08 12:20:09 2008



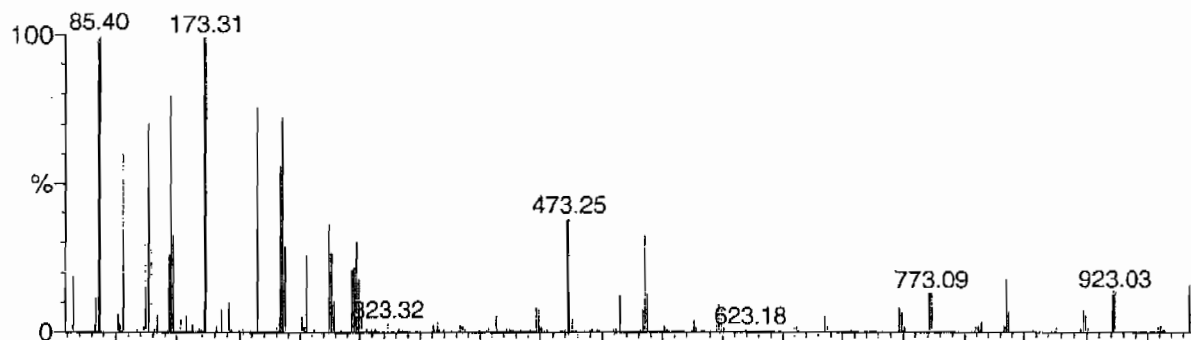
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

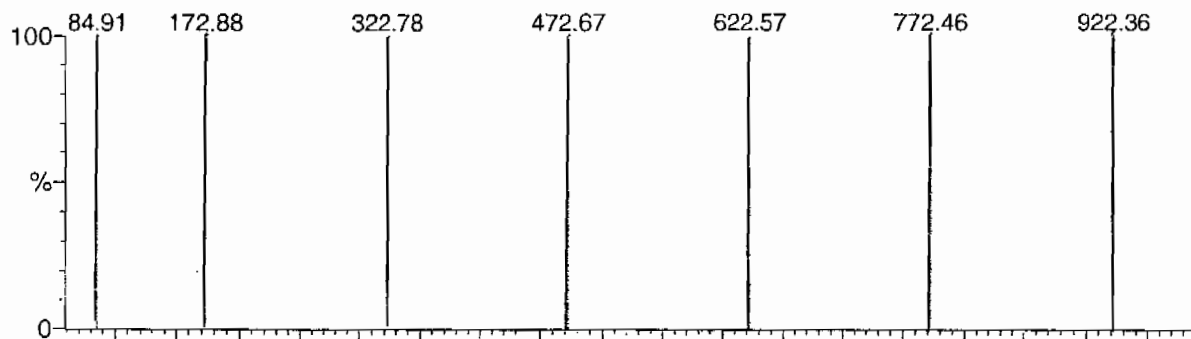
Printed: Tue Jan 08 12:21:04 2008

Data file: FASTMS1 - Uncalibrated

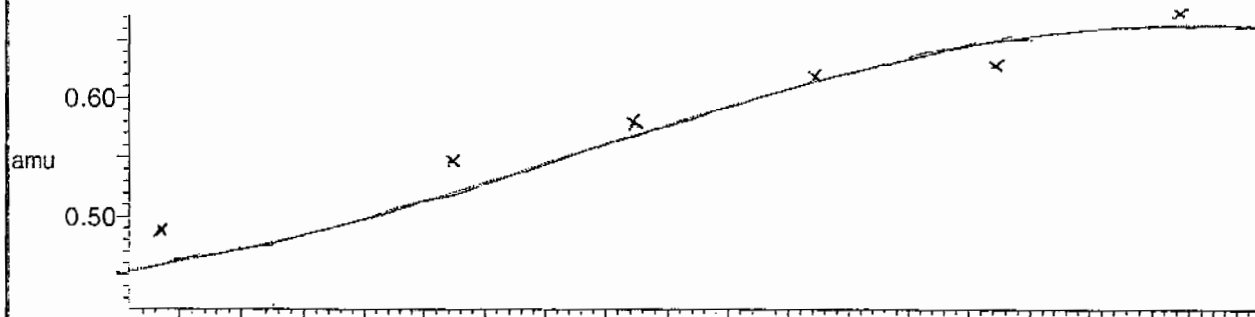
7 matches of 7 tested references



Reference file: Nairb

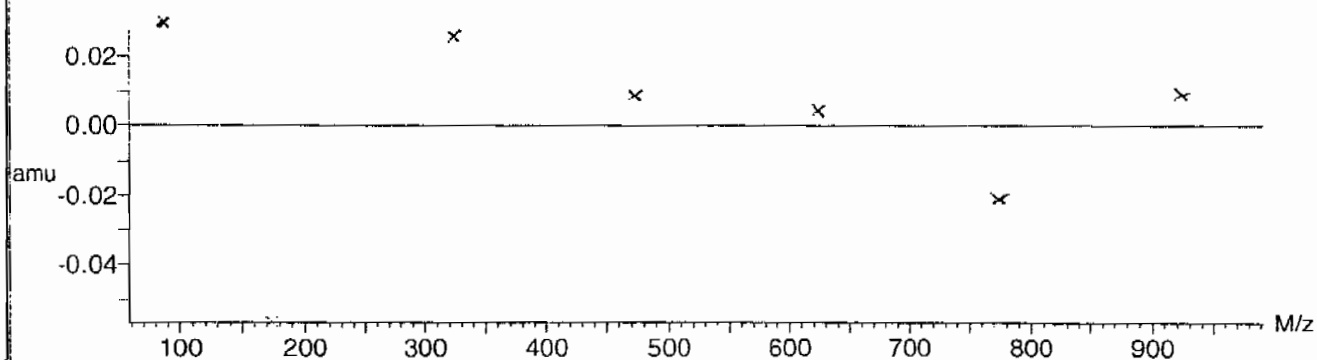


Mass difference (Raw - Ref mass)



Residuals

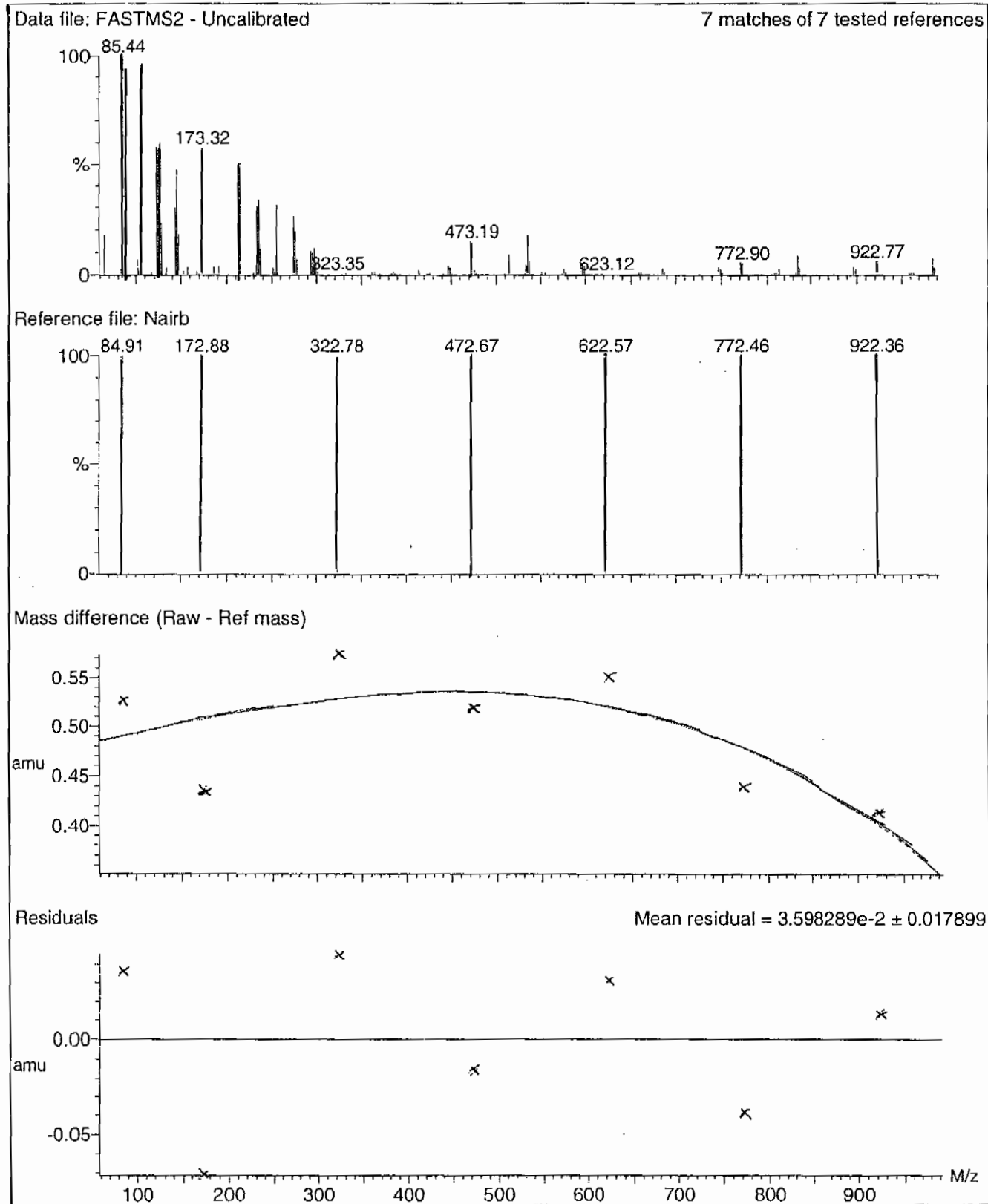
Mean residual = $2.224580e-2 \pm 0.016544$



Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

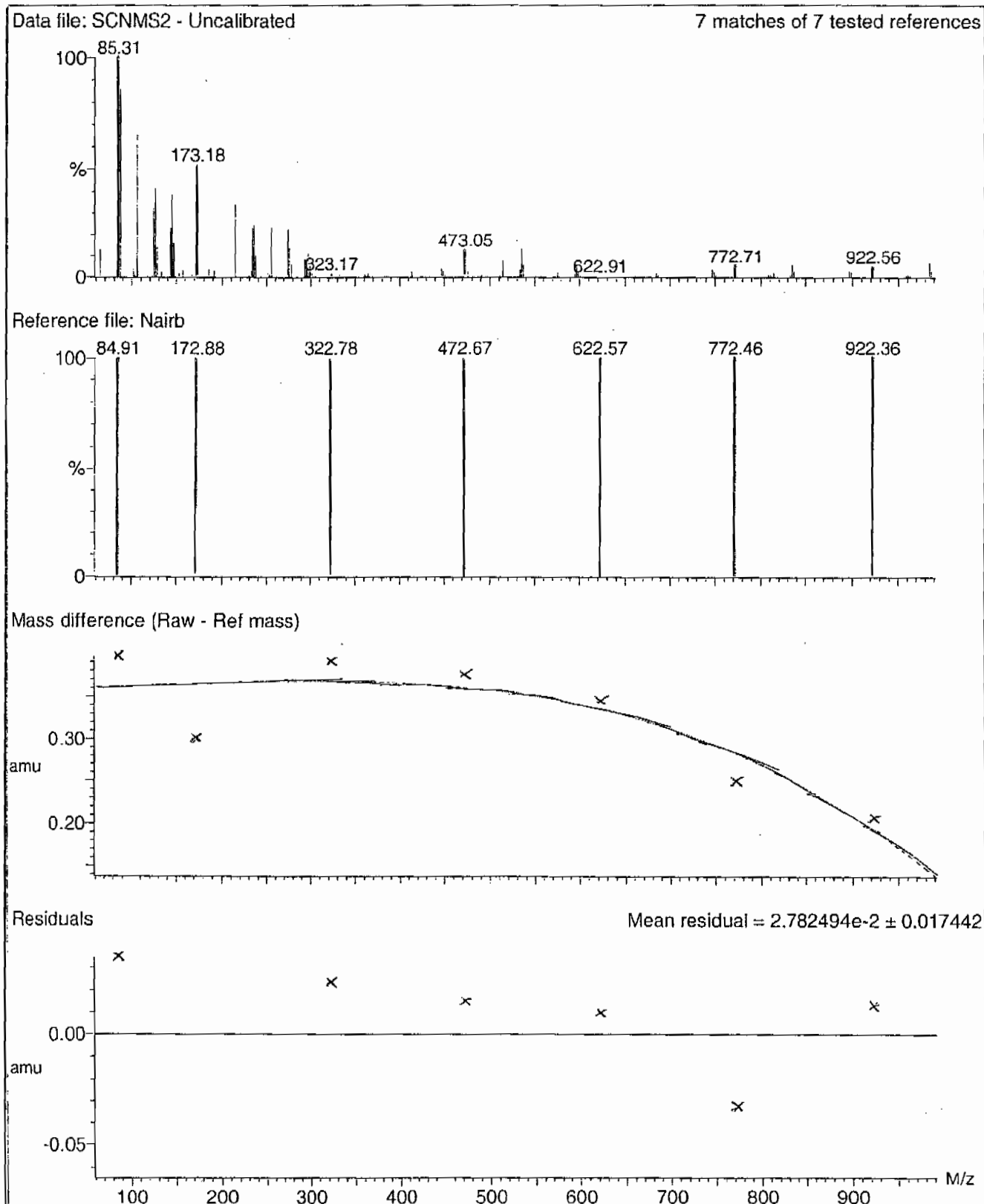
Printed: Tue Jan 08 12:23:51 2008



Calibration Report - MS2 Scanning

Page 1 of 1

Printed: Tue Jan 08 12:22:56 2008



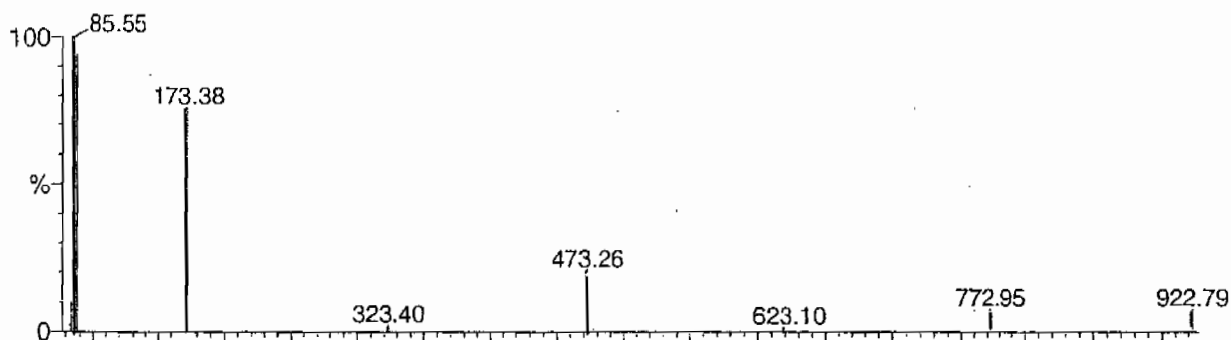
Calibration Report - MS2 Static

Page 1 of 1

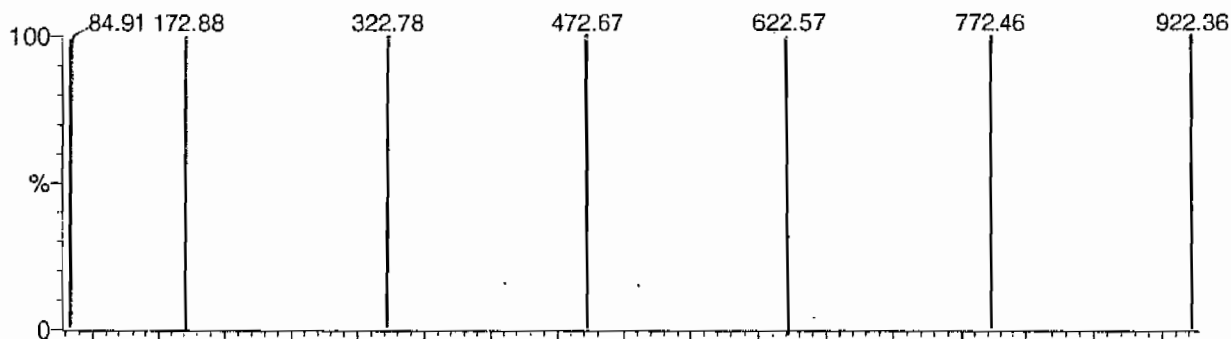
Printed: Tue Jan 08 12:21:59 2008

Data file: STATMS2 - Uncalibrated

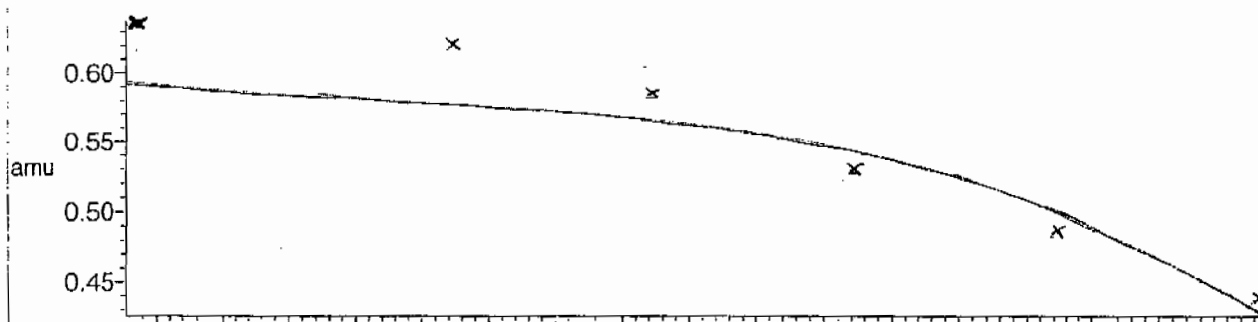
7 matches of 7 tested references



Reference file: Nairb

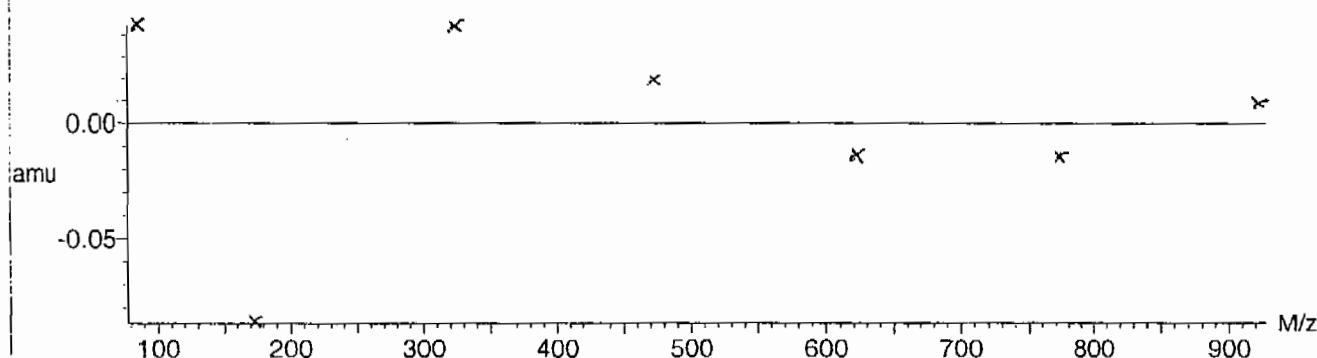


Mass difference (Raw - Ref mass)



Residuals

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



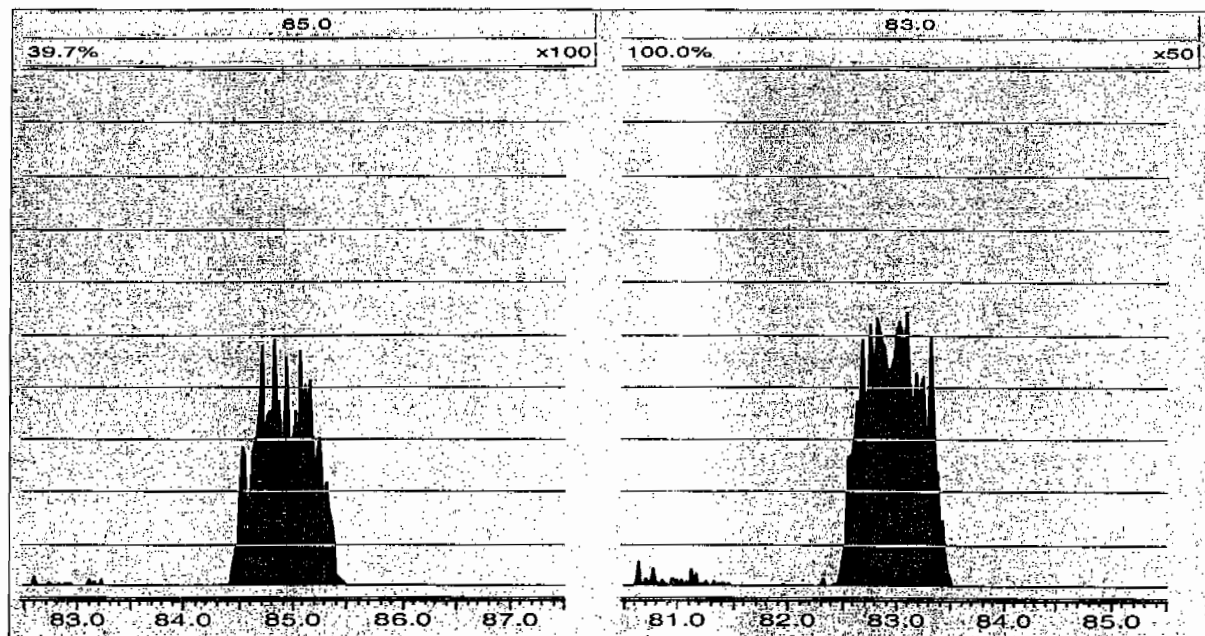
Tune Parameters

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

Lab Name: General Engineering Laboratories
GEL Job No.(SDG): 10-2122-1

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	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	
248199001	per0308129a	09-MAR-10 11:07	17937.4	3.37	3.32135	.986	

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: 959046
 Extraction Type: Filter/DAI
 Client Sample No. RE36-10-7529
 Date Received: 26-FEB-10
 GEL Job No (SDG): 10-2122-1
 GEL Sample ID: 248199001
 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 11:07	per0308129a
	Perchlorate Isotope Ratio						1	09-MAR-10 11:07	per0308129a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 11:07	per0308129a
	Perchlorate-O(18)			0.459	ug/L		1	09-MAR-10 11:07	per0308129a

[^] 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\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: per0308129a

Date: 09-Mar-2010

Time: 11:07:47

ID: 248199001

Vial: 3:3,E

LANC | 959047 | L102 | 11

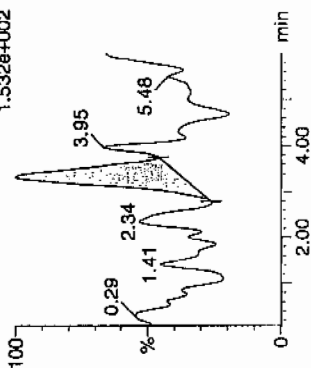
03-09-10

Perchlorate

MRM of 3 channels, ES-

99 > 83

1.532e+002

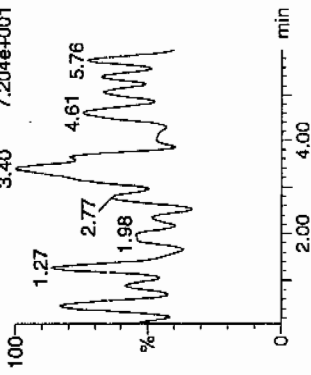


Perchlorate

MRM of 3 channels, ES-

101 > 85

7.204e+001

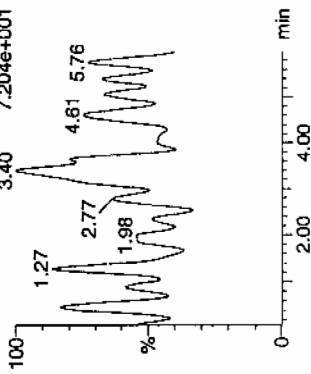


Perchlorate-101

MRM of 3 channels, ES-

101 > 85

7.204e+001

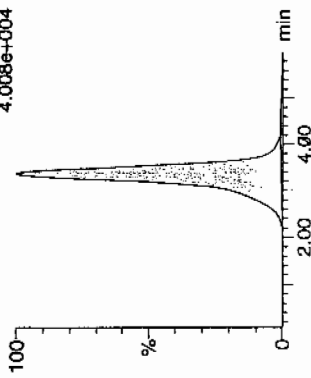


Perchlorate-O(18)

MRM of 3 channels, ES-

107 > 89

4.008e+004



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248199001	Perchlorate	99 > 83	3.32	41.930	41.930	bb			0.0009			24.660	0.00
248199001	Perchlorate-101	101 > 85											
248199001	Perchlorate-O(18)	107 > 89	3.37	17937.439	17937.439	bb			0.4594	91.87	-8.13	3156.3...	

STANDARDS DATA

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-2122-1

Lab Name: General Engineering Laboratories

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): 10-2122-1

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

Paramname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 14296.94

Response Type: External Standard

Curve Type: RF

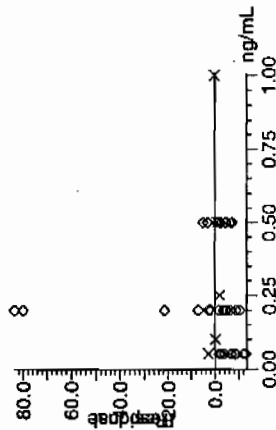
Quantify Calibration Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

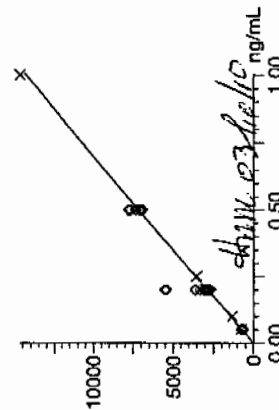
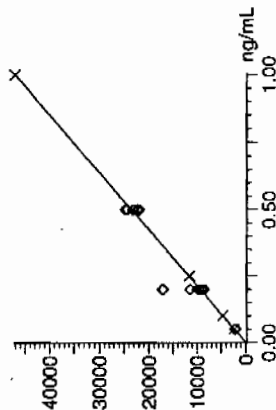
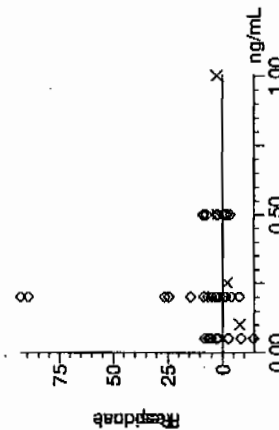
Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

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

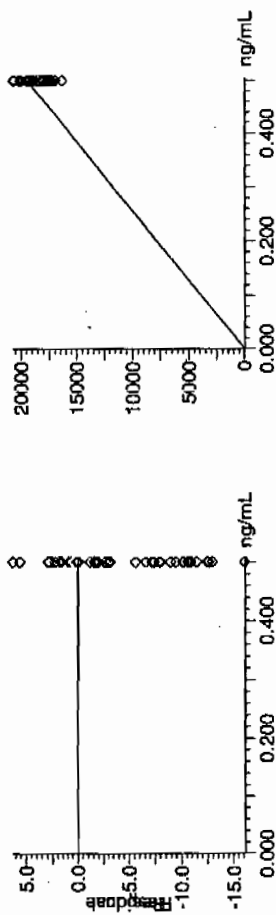


Quantify Calibration Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

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

Compound name: Perchlorate-O(18)
Response Factor: 39049
RRF SD: 832.552, % Relative SD: 2.13207
Response type: External Std, Area
Curve type: RF



Perchlorate Initial Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2122-1

Lab Code: GEL

Reporting Units: ug/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

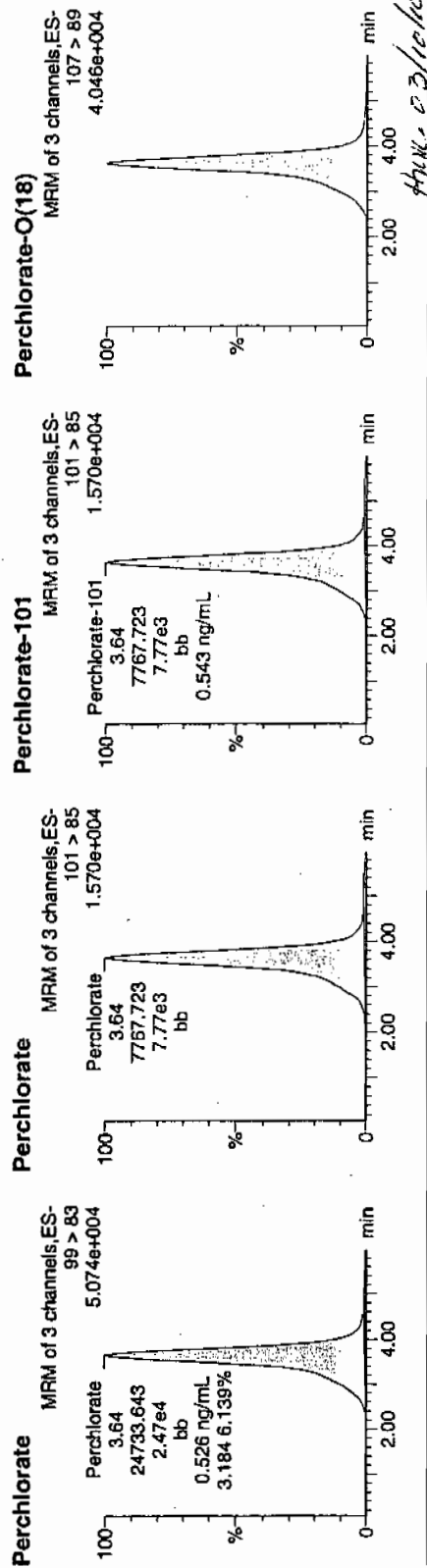
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

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

Per
0.526
0.543
0.511



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-Q(18)	107 > 89	3.63	19967.303	19967.303	bb			0.5113	102.27	2.27	1535.3...	

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2122-1

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): 10-2122-1

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

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-2122-1

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: Charles 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

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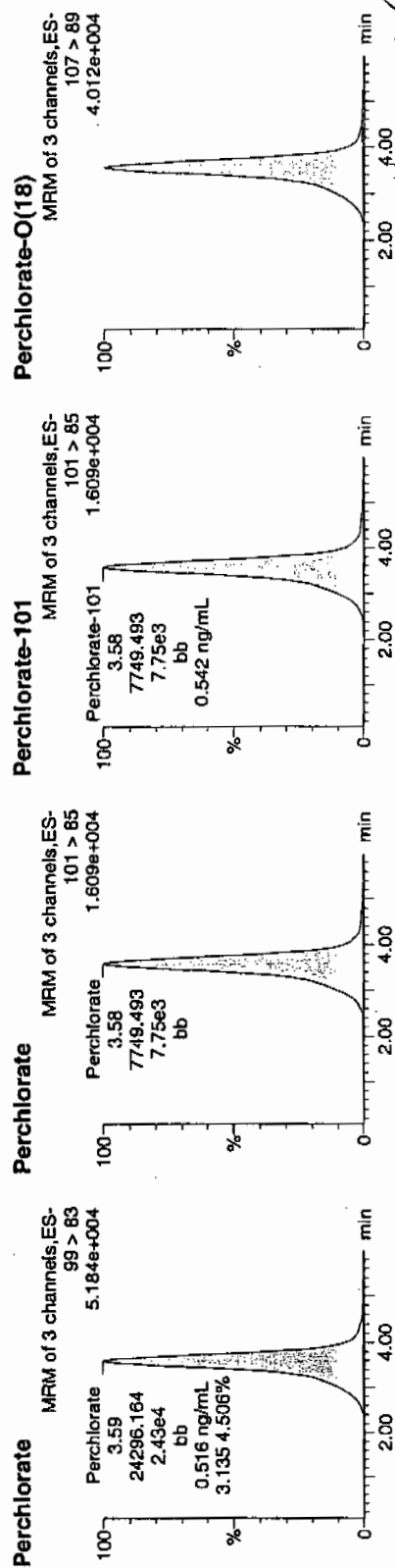
Date: 08-Mar-2010

Time: 18:46:13

ID: WCL100227-06CCV

Vial: 1:2,A

Per
0309-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.59	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-Q(18)	107 > 89	3.57	18892.500	18892.500	bb			0.4838	96.76	-3.24	3961.4...	

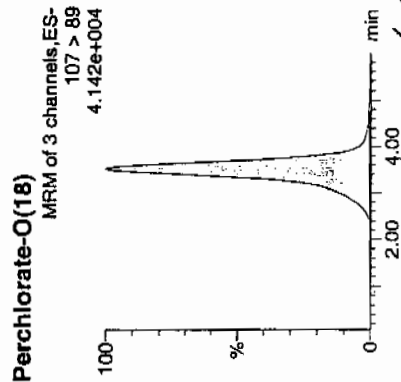
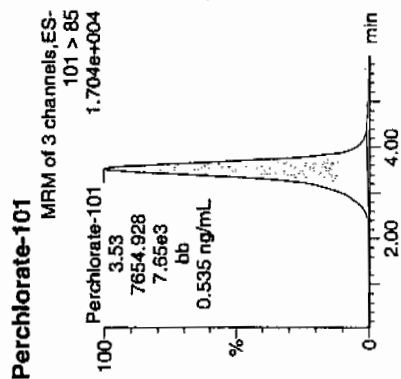
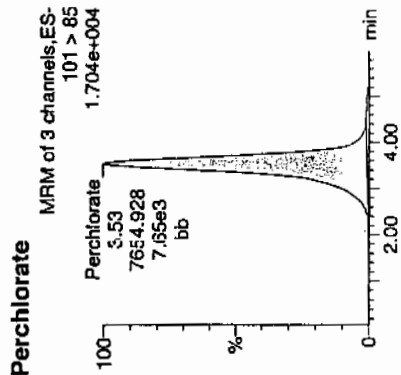
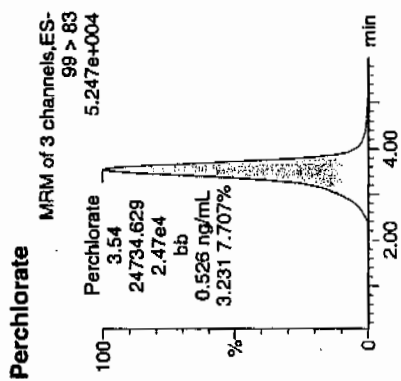
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

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

Name: per0308034a
Date: 08-Mar-2010
Time: 20:44:08
ID: WCL100227-06CCV
Vial: 1:2,A

Perchlorate
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	3.54	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	107.08	7.08	2331.6...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.53	19141.506	19141.506	bb			0.4902	98.04	-1.96	1232.7...	

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

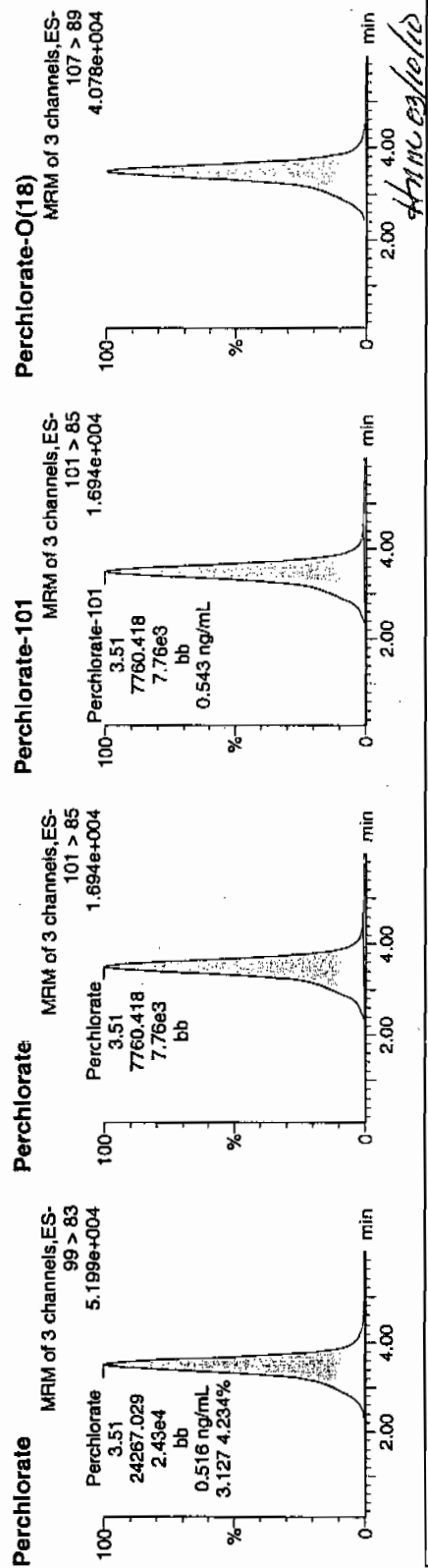
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Date: 08-Mar-2010

Time: 22:42:18

ID: WCL100227-06CCV

Vial: 1:2,A



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.51	24267.029	24267.029	bb			0.5158	103.16	3.16	1490.7...	3.13
WCL100227-06CCV	Perchlorate-101	101 > 85	3.51	7760.418	7760.418	bb			0.5428	106.56	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...	

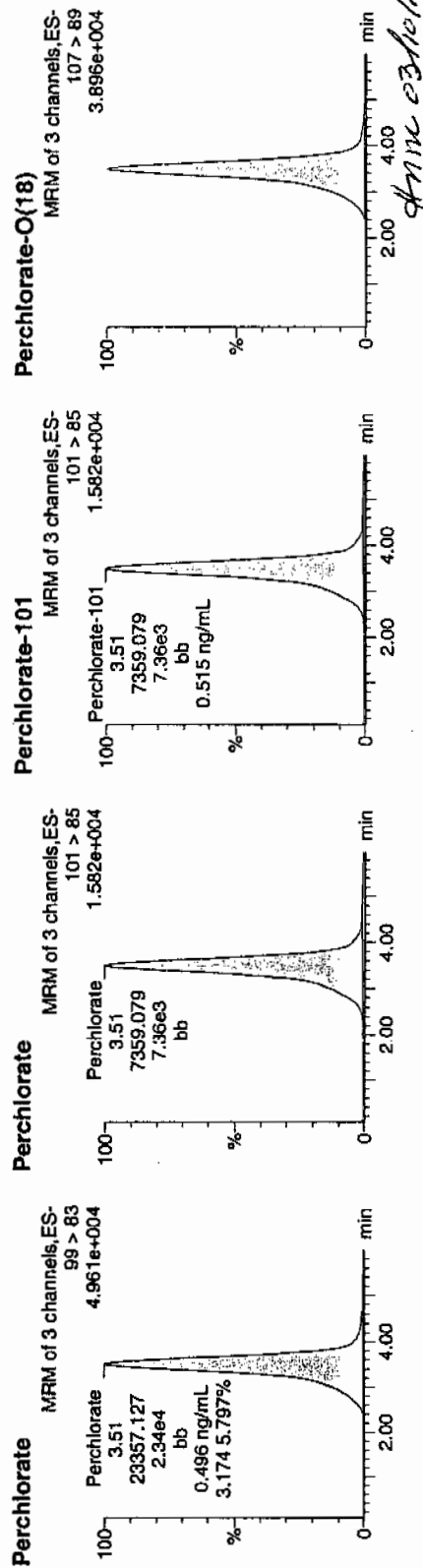
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

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

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

Run
6w
03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.51	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	1285.2...	

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

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Date: 09-Mar-2010

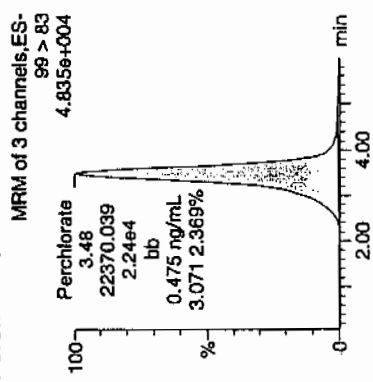
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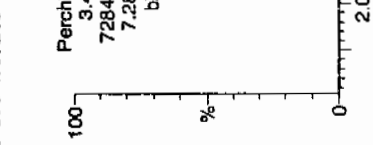
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Per
uu
03-04-10

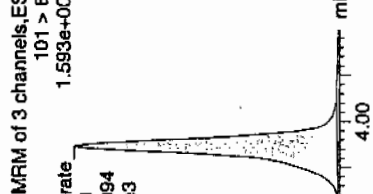
Perchlorate



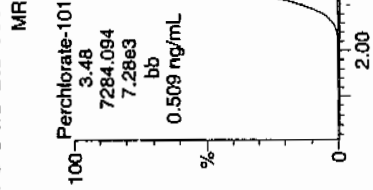
Perchlorate



Perchlorate



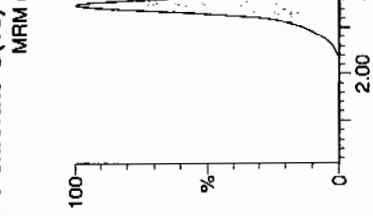
Perchlorate-101



Perchlorate-101



Perchlorate-Q(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCCV	Perchlorate	99 > 83	3.48	22370.039	22370.039	bb			0.4755	95.10	-4.90	2051.0...	3.07
WCL100227-06CCCV	Perchlorate-101	101 > 85	3.48	7284.094	7284.094	bb			0.5095	101.90	1.90	930.289	
WCL100227-06CCCV	Perchlorate-Q(18)	107 > 89	3.47	17683.076	17683.076	bb			0.4528	90.57	-9.43	2477.5...	

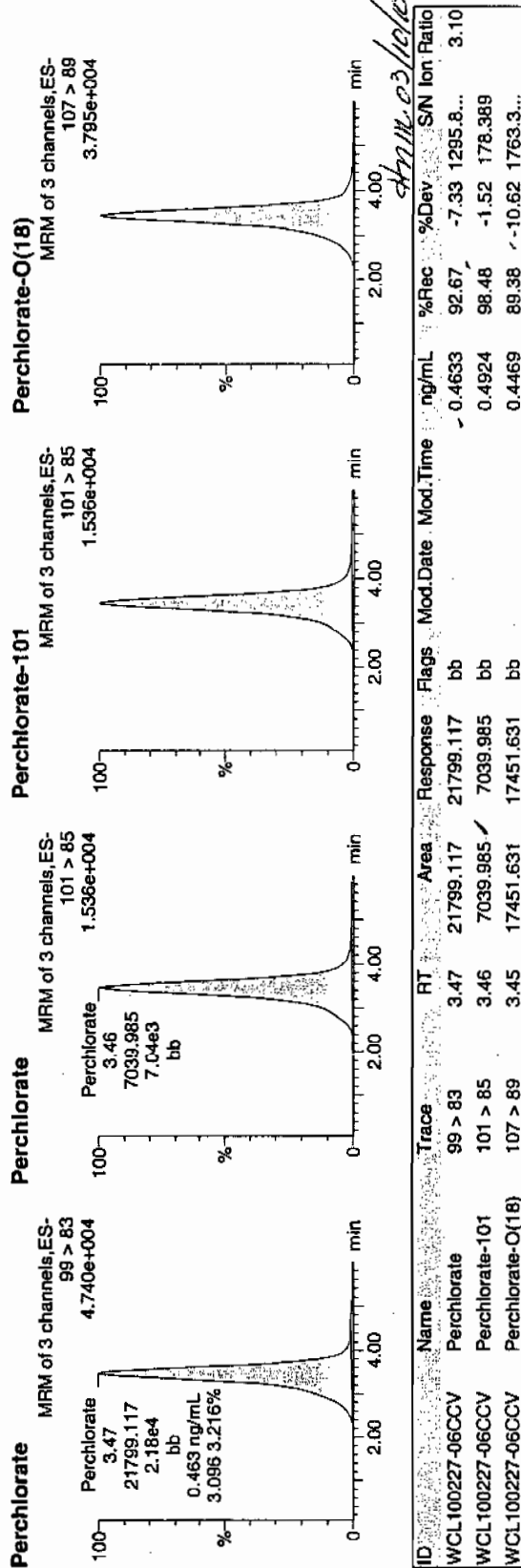
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

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

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

Pure
WCL
03-04-10



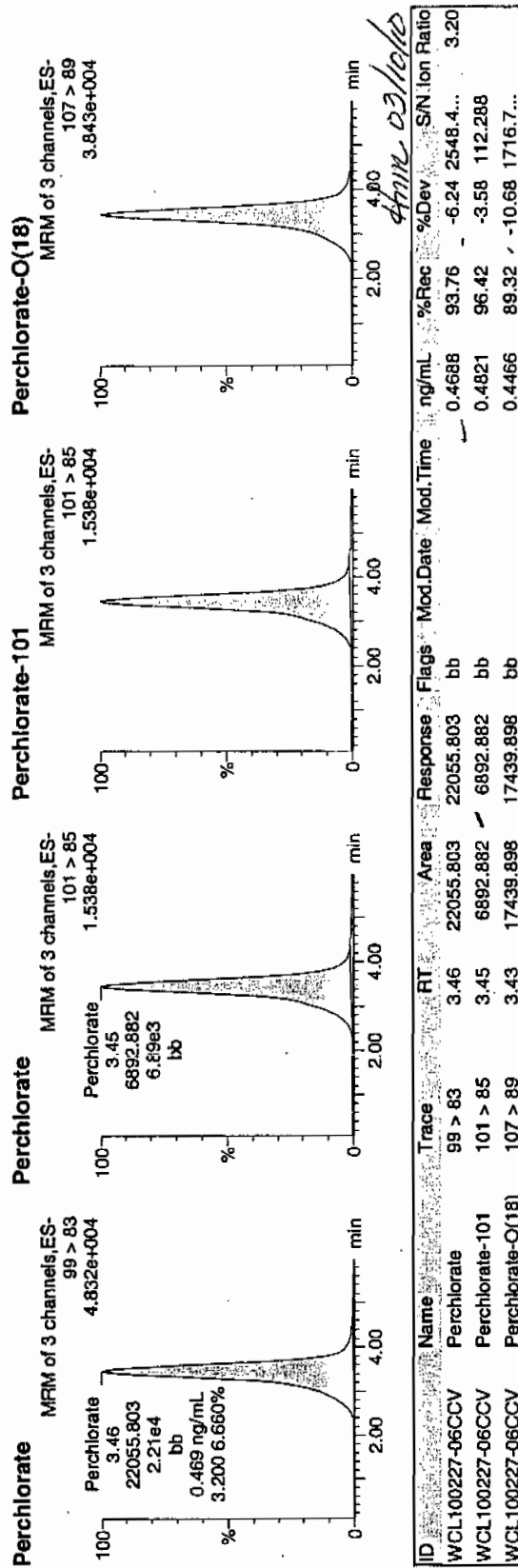
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

Pure
and
03-04-10



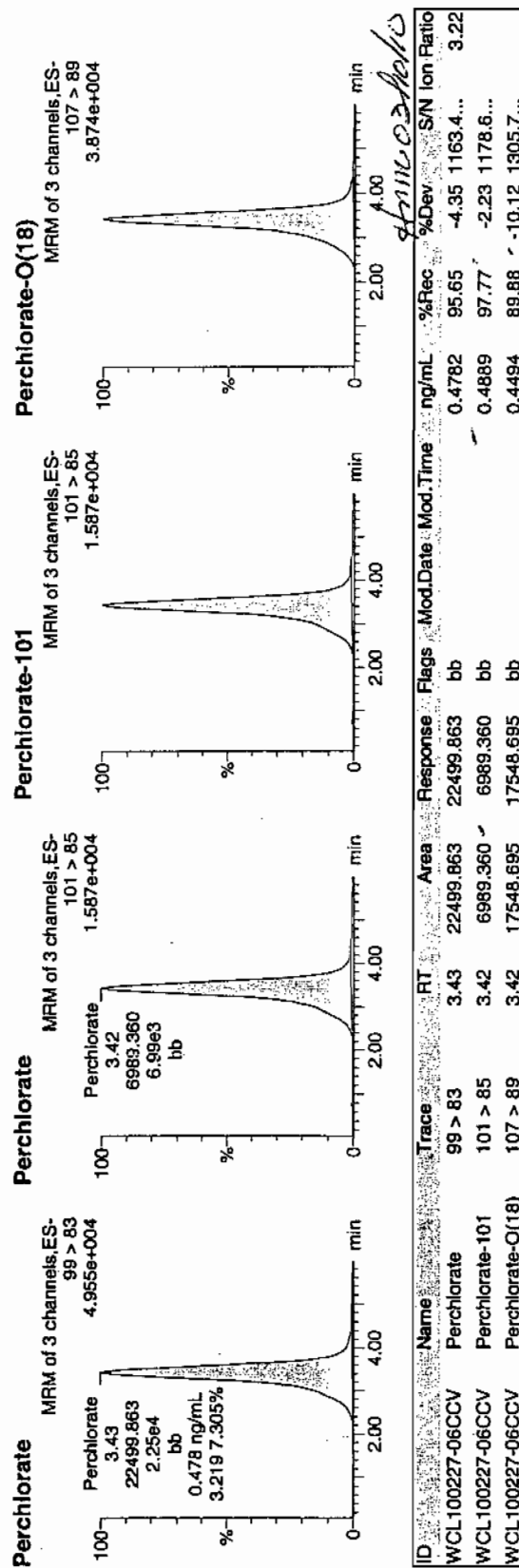
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

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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

per0308112a
03-09-10



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

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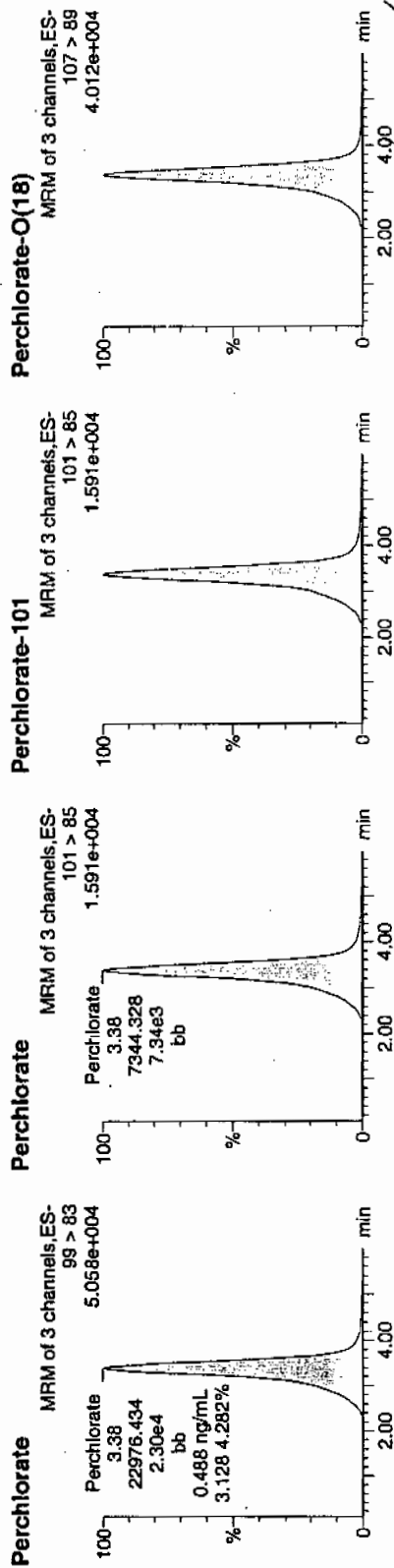
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Time: 10:31:13

ID: WCL100227-06CCV

Vial: 1:2,A

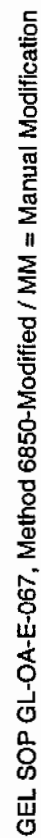
Per
WCL
03-09-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.38	22976.434	22976.434	bb			0.4884	97.67	-2.33	1960.6...	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...	

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

Vial: 1:2,A



Form 3

Perchlorate MDL Verification

GEL Job No.(SDG): 10-2122-1

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

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2122-1

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

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2122-1

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

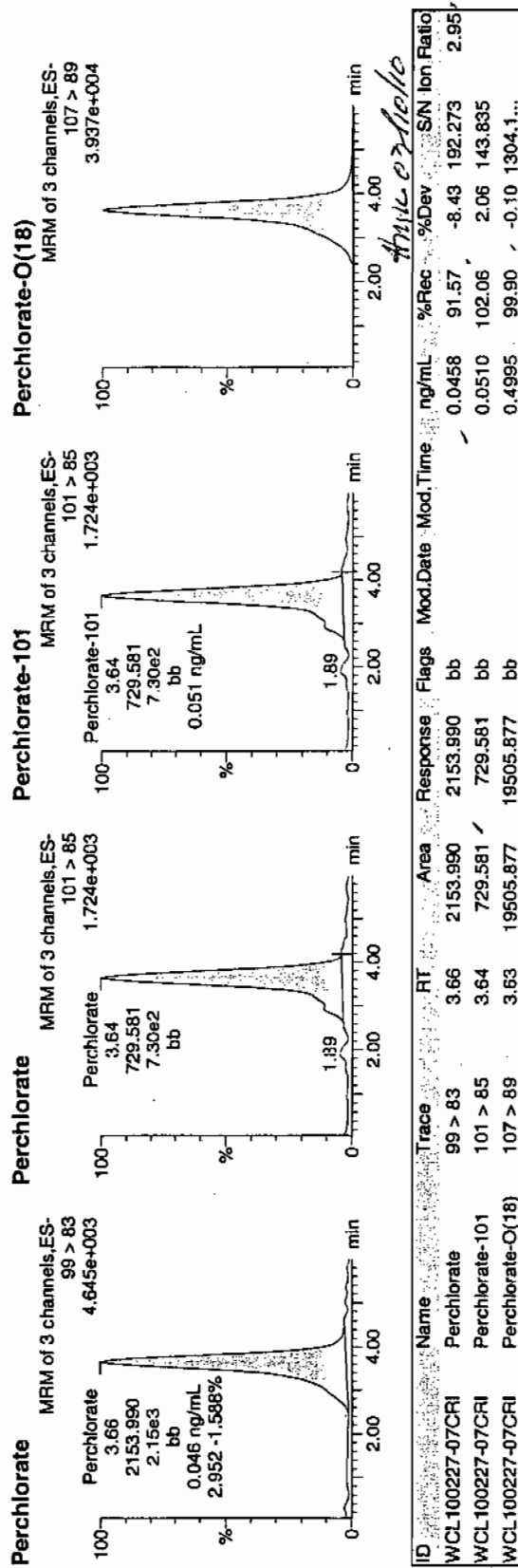
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charfers W. Wilson

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: per0308011a
Date: 08-Mar-2010
Time: 17:15:29
ID: WCL100227-07CRI
Vial: 1:2,B

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and
03-09-10



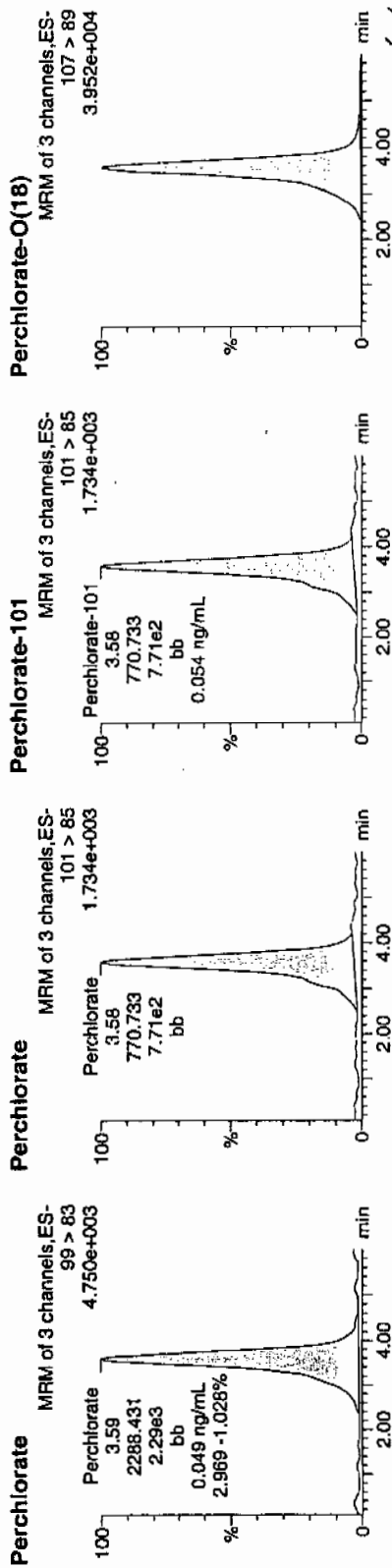
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

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

per
WCL100227-07CRI



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.59	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...	

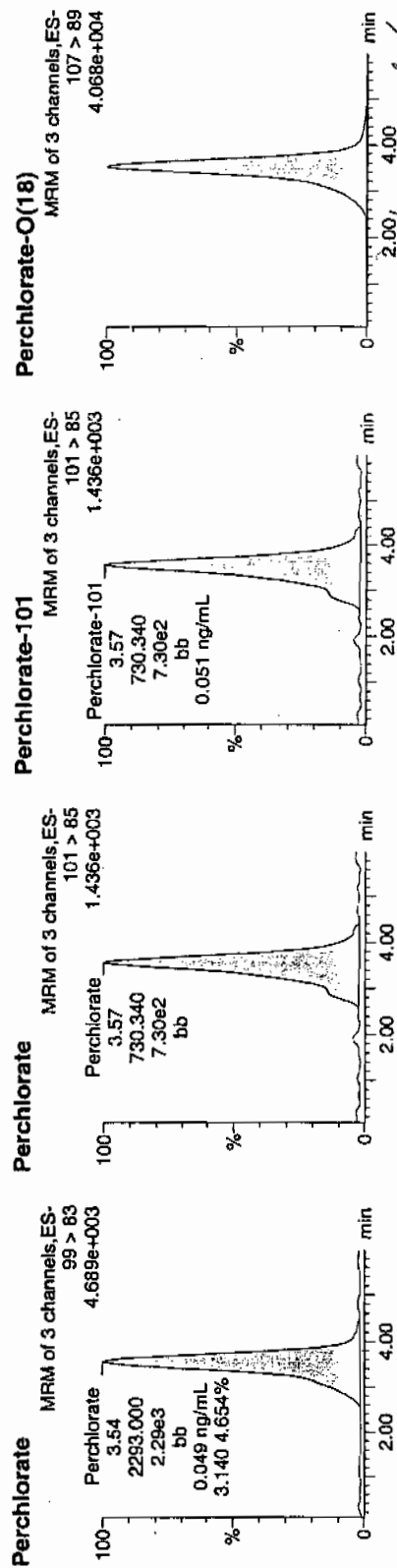
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

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

Perchlorate
03-04-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.54	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...	

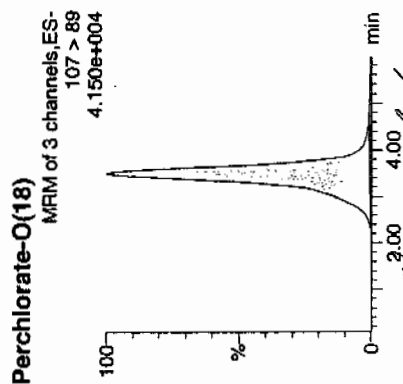
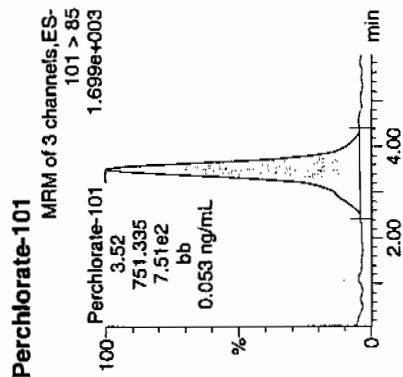
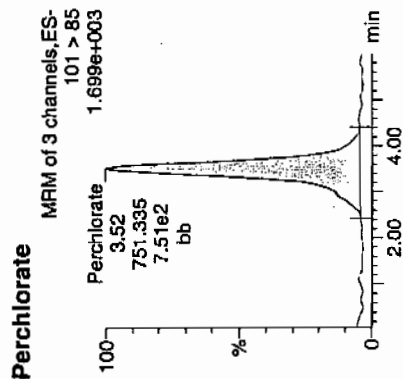
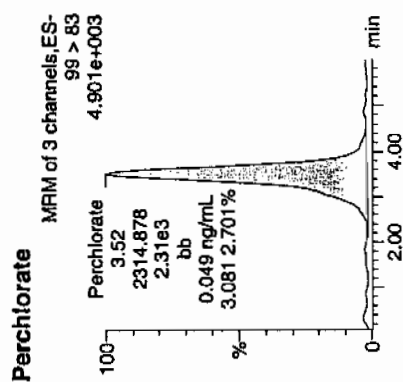
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

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WCL
0304-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.52	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	103.10	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...	

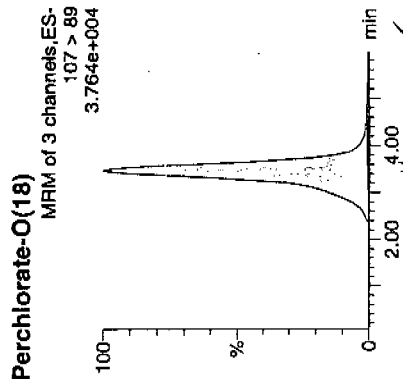
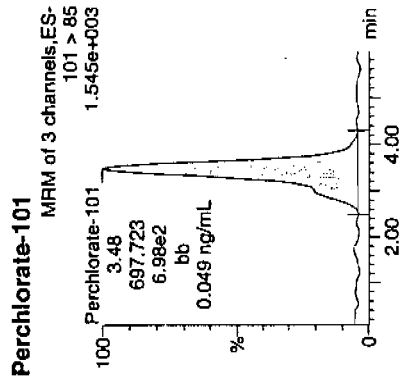
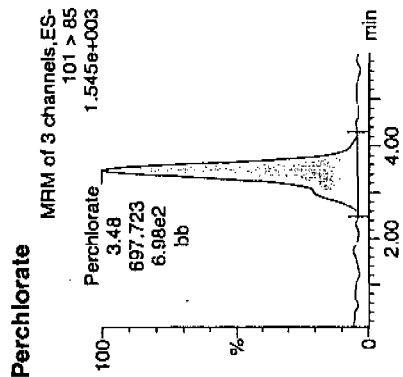
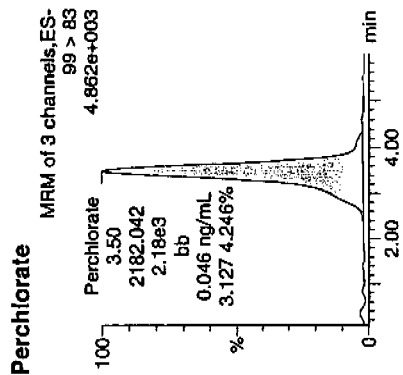
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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
03-04-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.50	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	

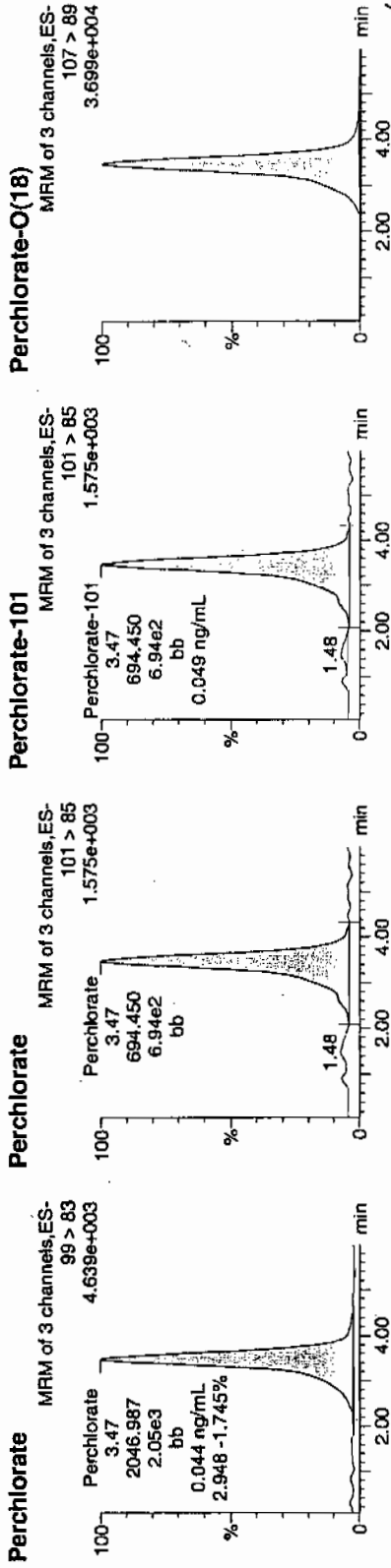
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

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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	3.47	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...	

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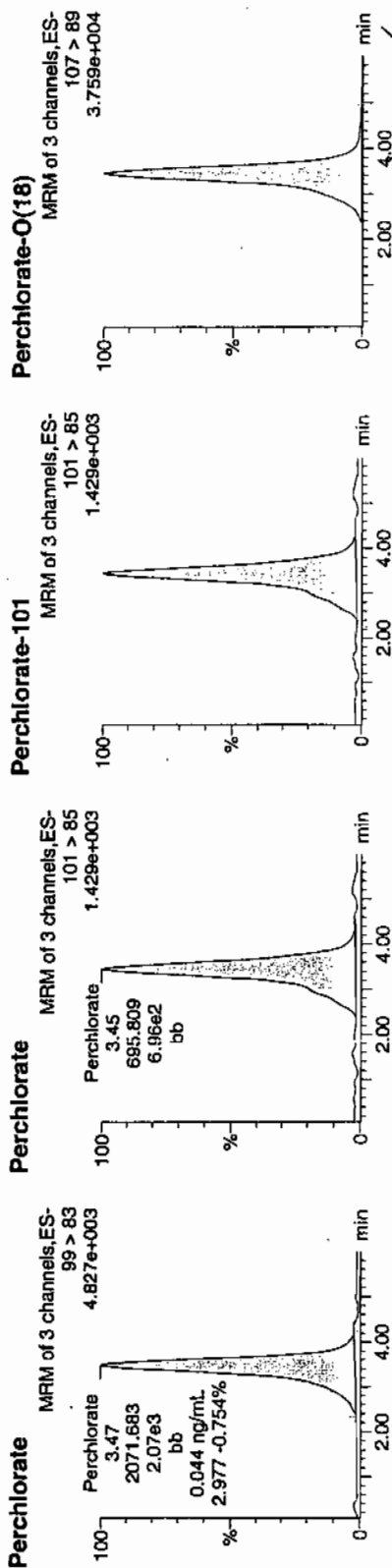
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

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

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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	3.47	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...	

Time 03/10/10

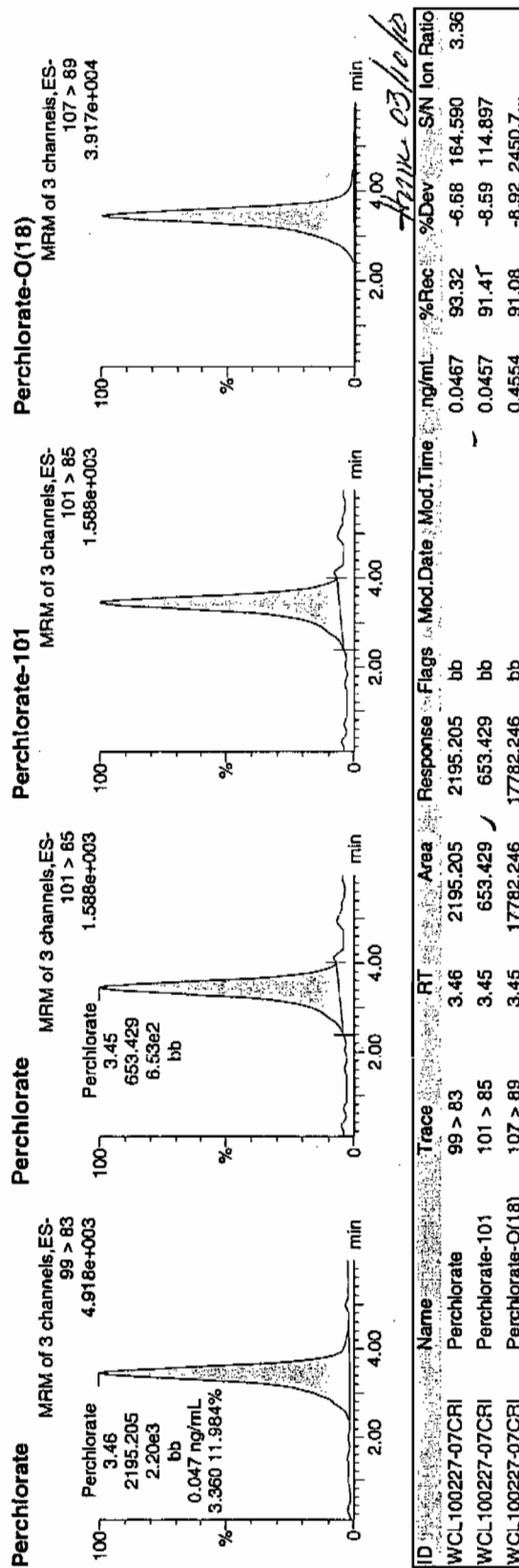
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

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03-04-10



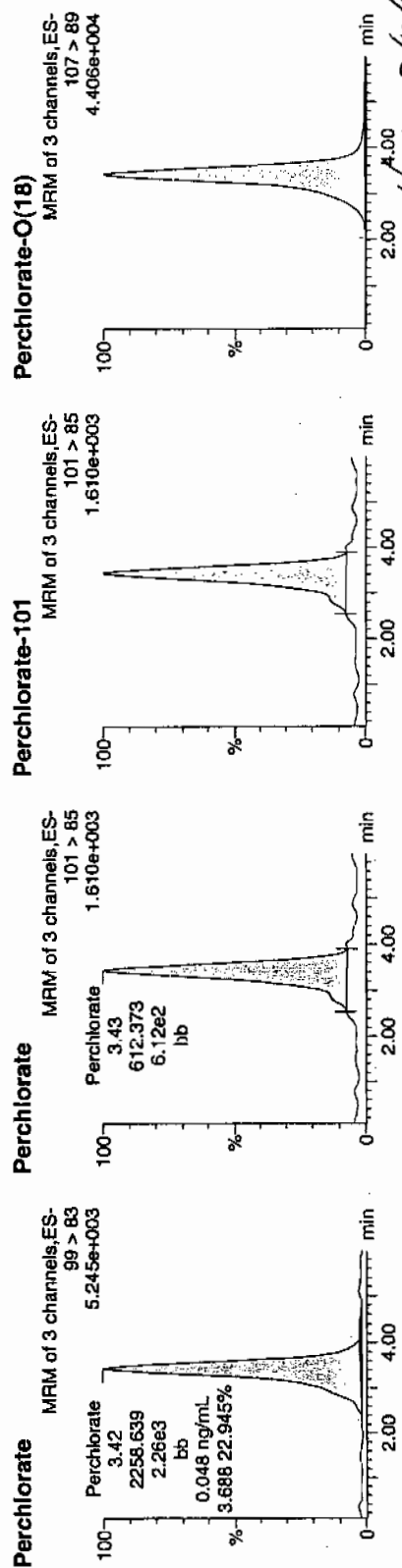
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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: 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...	

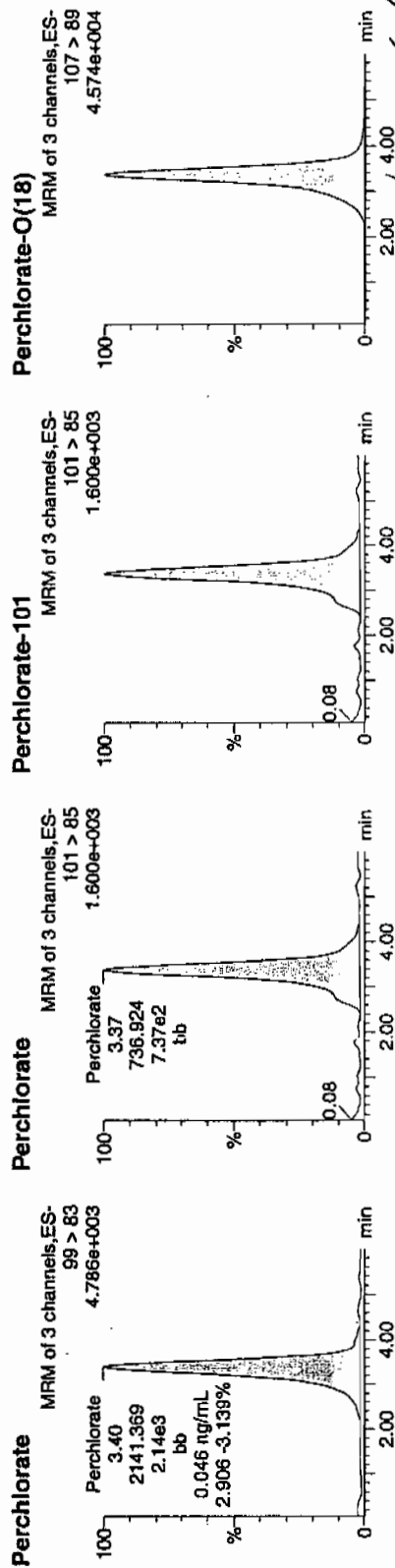
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charfers W. Wilson

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: per0308127a
Date: 09-Mar-2010
Time: 10:49:31
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	SN	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	

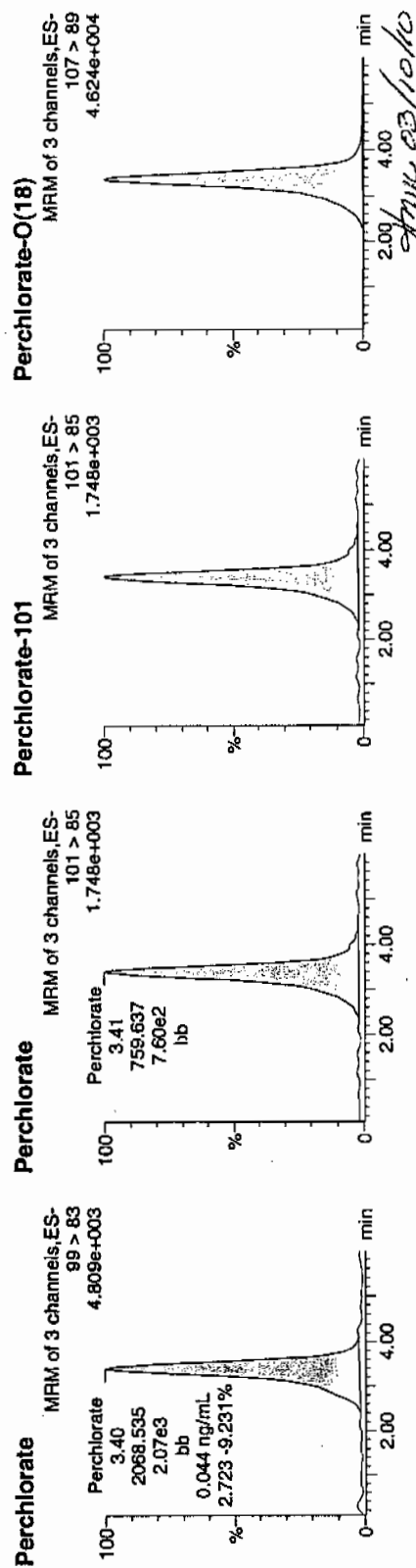
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

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: per0308139a
Date: 09-Mar-2010
Time: 12:38:17
ID: WCL100227-07CRI
Vial: 1:2,B

Pure
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	3.40	2068.535	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

Form 1

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
 Sample Volume/Weight: 10.0 mL
 Concentrated Extract Volume: 10.0
 Client Sample No. MB
 Date Received: 05-MAR-10
 GEL Job No (SDG): 10-2122-1
 GEL Sample ID: 1202056715
 Date Filtered: 05-MAR-10
 Injection Volume (uL): 20
 % Solids:

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
 Aliquot % Solids

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: per0308107a

Date: 09-Mar-2010

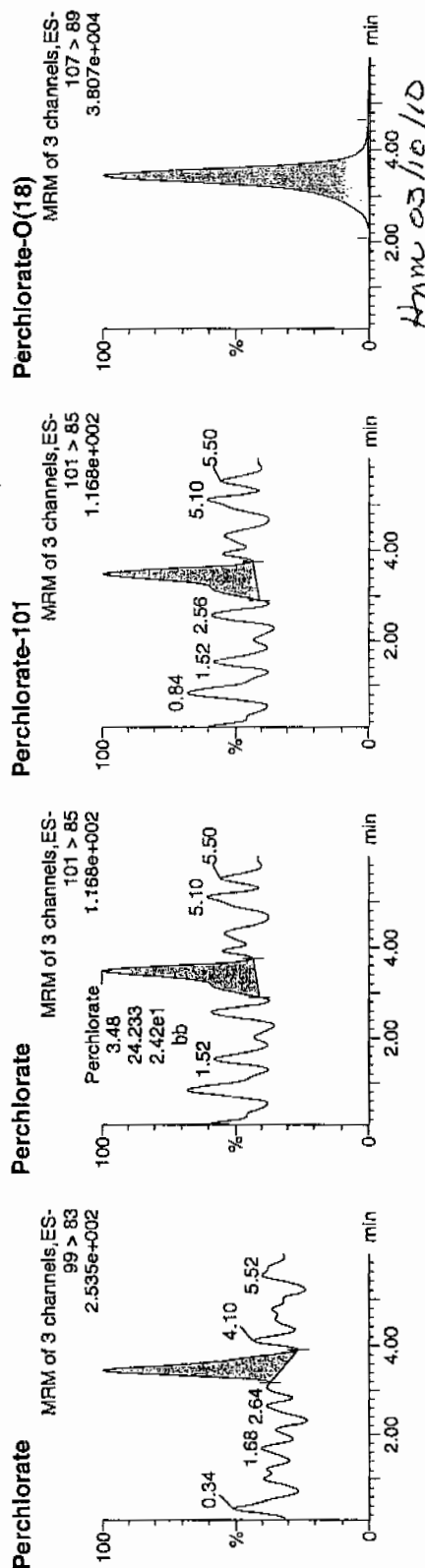
Time: 07:47:57

ID: 1202056715

Vial: 3:1, A

03-54-10

1104 | 017 | 74056 | 1257



ID	Name	Trace	Area	Response	Flags	ModTime	ModDate	mg/mL	%Rec	Dev	SN	Ion 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-O(18)	107 > 89	3.43	17439.324	bb			0.4466	89.32	-10.68	585.332	

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0024

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

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

LCS

Date Received: 05-MAR-10

GEL Job No (SDG): 10-2122-1

GEL Sample ID: 1202056716

Date Filtered: 05-MAR-10

Injection Volume (uL): 20

%Solids:

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 1
Aliquot %Solids

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

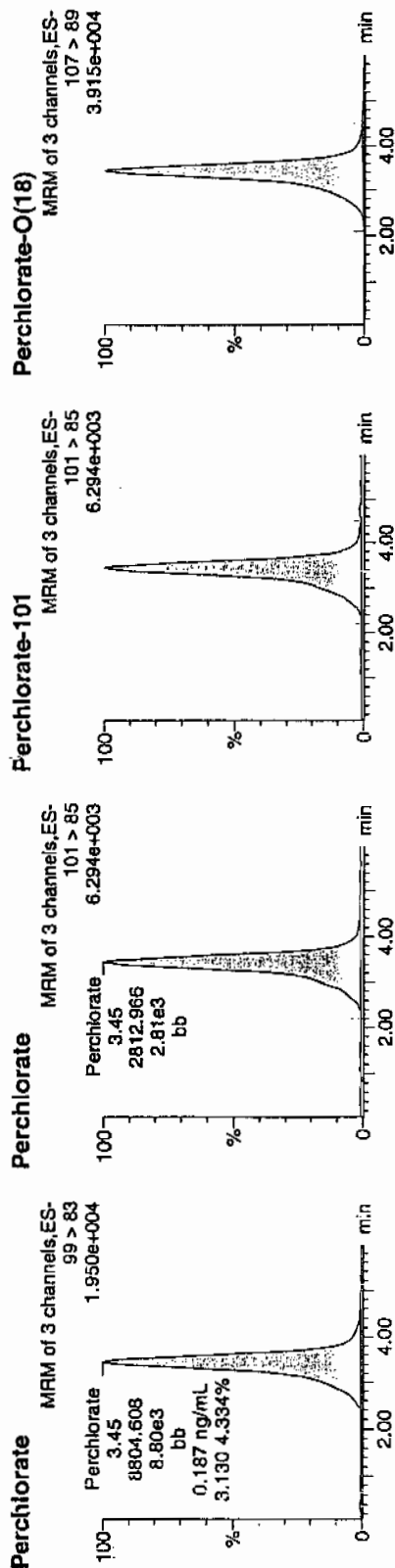
Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

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

03-01-10

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
47047.4 / 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: 959046 Verified by: Kaylie Westmoreland
 Analyst: Kaylie Westmoreland
 Method: SWS46 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)
1202056713 MB	05-MAR-2010 15:17:00	10	10	1
1202056716 LCS	05-MAR-2010 15:17:00	10	10	1
248168001	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 LCS	05-MAR-2010 15:17:00	10	10	1

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
CS	1202056719	10 ug/L, ICV/CCV Second Source	UCL100226-01.1	2	ml	Desalting Cartridges used: 100224-1-Bu & 100217-1-H
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	
ICV/CCV	All	500 ppm Carbonate, Bicarbonate, Chloride, Sulfate	1267890	10	ml	
ICV/CCV	All	1250 400, 0.1 Grade Water	1271949	10	ml	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LOMSMS#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: *hmc*
Date: *03/10/10*
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
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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

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

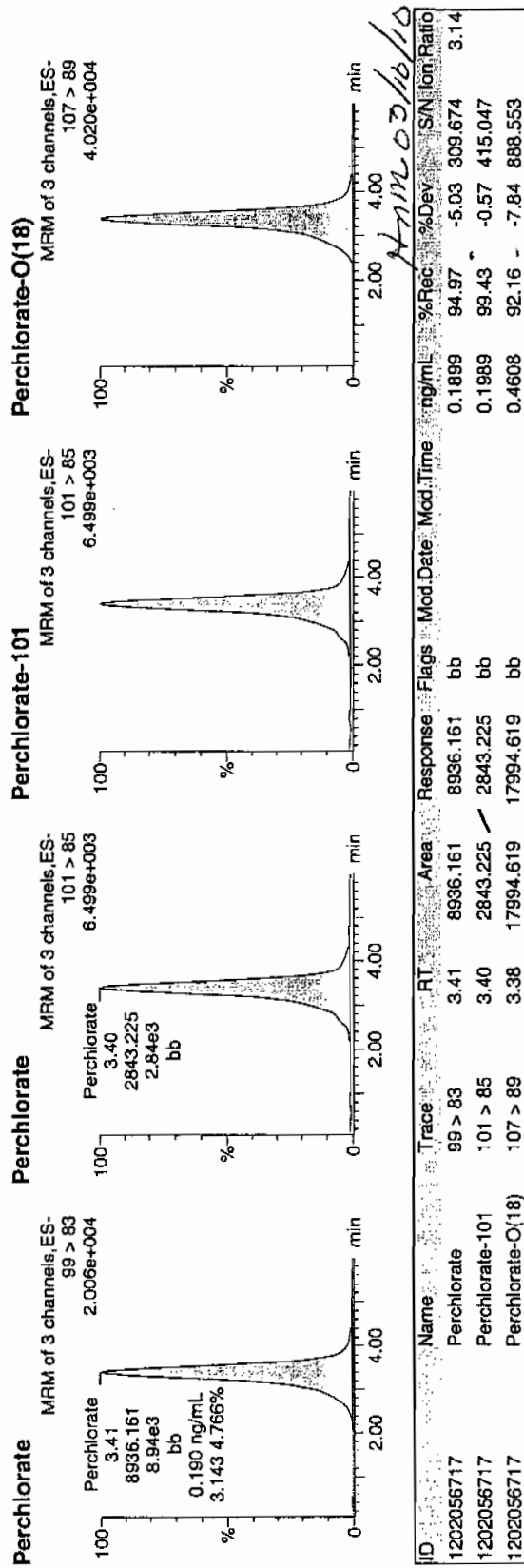
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Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308119a
Date: 09-Mar-2010
Time: 09:37:00
ID: 1202056717
Vial: 3:2,D

03-08-10

1202056717 | 1202056717 | MS | 1 | 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: per0308120a

Date: 09-Mar-2010

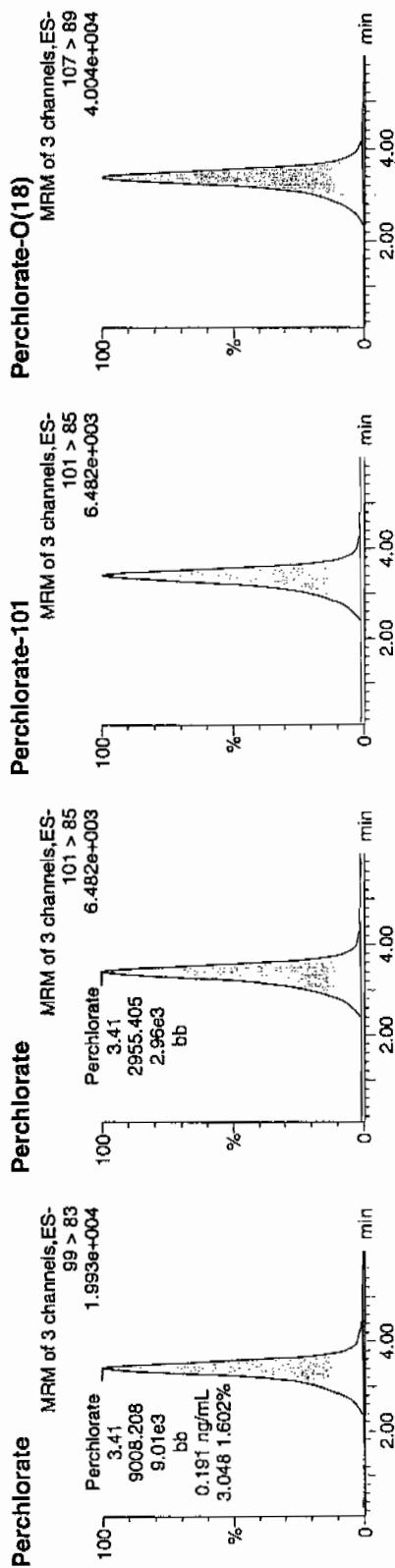
Time: 09:46:02

ID: 1202056718

Vial: 3:2,E

03 29-10

1202056718 | 1202056718 | 1202056718



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202056718	Perchlorate	99 > 83	3.41	9008.208	9008.208	bb			0.1915	95.74	-4.26	1050.0...	3.05
1202056718	Perchlorate-101	101 > 85	3.41	2955.405	2955.405	bb			0.2067	103.36	3.36	549.086	
1202056718	Perchlorate-O(18)	107 > 89	3.38	17971.195	17971.195	bb			0.4602	92.04	-7.96	2544.5...	

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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 10-2122**

Sample Analysis

Sample ID	Client ID
248198001	RE36-10-7405
248198002	RE36-10-7403
248198003	RE36-10-7406
248198004	RE36-10-7404
248198005	RE36-10-7516
248198006	RE36-10-7426
248198007	RE36-10-7432
248198008	RE36-10-7431
248198009	RE36-10-7434
248198010	RE36-10-7425
248198011	RE36-10-7429
248198012	RE36-10-7433
1202056918	Method Blank (MB) ICP
1202056923	Laboratory Control Sample (LCS)
1202056920	248198001(RE36-10-7405L) Serial Dilution (SD)
1202056919	248198001(RE36-10-7405D) Sample Duplicate (DUP)
1202056921	248198001(RE36-10-7405S) Matrix Spike (MS)
1202056922	248198001(RE36-10-7405SD) Matrix Spike Duplicate (MSD)
1202056924	Method Blank (MB) ICP-MS
1202056929	Laboratory Control Sample (LCS)

1202056926	248198001(RE36-10-7405L) Serial Dilution (SD)
1202056925	248198001(RE36-10-7405D) Sample Duplicate (DUP)
1202056927	248198001(RE36-10-7405S) Matrix Spike (MS)
1202056928	248198001(RE36-10-7405SD) Matrix Spike Duplicate (MSD)
1202056211	Method Blank (MB) CVAA
1202056212	Laboratory Control Sample (LCS)
1202056215	248189001(RE11-10-1651L) Serial Dilution (SD)
1202056213	248189001(RE11-10-1651D) Sample Duplicate (DUP)
1202056214	248189001(RE11-10-1651S) Matrix Spike (MS)
1202056216	248189001(RE11-10-1651SD) Matrix Spike Duplicate (MSD)

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

Method/Analysis Information

Analytical Batch:	959127, 959129 and 958770
Prep Batch :	959126, 959128 and 958769
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 5300 Optima radial/axial-viewing inductively coupled plasma atomic emission spectrometer. The instrument is equipped with a Burgener nebulizer, cyclonic spray chamber, and yttrium or scandium internal standard. Operating conditions for the ICP are set at a power level of 1500 watts. The instrument has a peristaltic pump flow rate of 1.4L/min, argon gas flows of 15 L/min and 0.2 L/min for the torch and auxiliary gases, and a flow setting of 0.65L/min for the nebulizer.

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

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

Calibration Information

Instrument Calibration

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

CRDL Requirements

All CRDL standard(s) met the referenced advisory control limits with the exception of lead, 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 for all applicable analytes with the exception of vanadium. The CCB failed high for vanadium but all samples were 10x greater than PQL/RDL.

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 method blank analyzed with this SDG did not contain analytes of interest above the CRDL, with the exception of vanadium. The samples in this SDG contained vanadium at concentrations more than ten times the amount present in the method blank (MB), therefore the data was not adversely affected.

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: 248198001 (RE36-10-7405) and 248189001 (RE11-10-1651).

Matrix Spike (MS) Recovery Statement

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

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) with the exceptions of lead and vanadium, as indicated by the "E" qualifiers.

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 instruments. Dilutions were required for 248198002 (RE36-10-7403) and 248198004 (RE36-10-7404) in order to minimize antimony suppression due to matrix interferences. The samples in this SDG were diluted the standard 2x for solids on the ICPMS. The samples 248198008 (RE36-10-7431) and 248198007 (RE36-10-7432) required dilutions for mercury in order to bring over range concentrations within the linear calibration range of the instrument.

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: 803463, 813938 and 816539. 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:

Reviewer: Kristen Pauson Date: 4/14/10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198001

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7405

LEVEL: Low

DATE RECEIVED 26-FEB-10

MATRIX: SOIL

%SOLIDS: 82

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	7100000	ug/Kg		7970	23400	23400	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-36-0	Antimony	1170	ug/Kg	U	387	1170	1170	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-38-2	Arsenic	2.01	mg/kg		0.23	1.15	1.15	2	MS	PRB	04/13/10 00:57	100412-3	959129
7440-39-3	Barium	92400	ug/Kg	N	117	586	586	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-41-7	Beryllium	0.834	mg/kg		0.023	0.115	0.115	2	MS	PRB	04/13/10 00:57	100412-3	959129
7440-43-9	Cadmium	345	ug/Kg	J	117	586	586	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-70-2	Calcium	3520000	ug/Kg		9380	29300	29300	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-47-3	Chromium	6890	ug/Kg		176	586	586	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-48-4	Cobalt	3250	ug/Kg		176	586	586	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-50-8	Copper	6640	ug/Kg		352	1170	1170	1	P	HSC	03/30/10 01:46	032910A-1	959127
7439-89-6	Iron	10400000	ug/Kg		9380	29300	29300	1	P	HSC	03/30/10 01:46	032910A-1	959127
7439-92-1	Lead	15600	ug/Kg	E	293	1170	1170	1	P	HSC	03/30/10 01:46	032910A-1	959127
7439-95-4	Magnesium	1580000	ug/Kg	N	9970	35200	35200	1	P	HSC	03/30/10 01:46	032910A-1	959127
7439-96-5	Manganese	537000	ug/Kg		234	1170	1170	1	P	HSC	03/30/10 01:46	032910A-1	959127
7439-97-6	Mercury	85.5	ug/kg		4.81	14.2	14.2	1	AV	JXL1	03/12/10 10:50	031210S1-6	958770
7440-02-0	Nickel	6.01	mg/kg		0.115	0.459	0.459	2	MS	PRB	04/13/10 00:57	100412-3	959129
7440-09-7	Potassium	1970000	ug/Kg	N	7500	29300	29300	1	P	HSC	03/30/10 01:46	032910A-1	959127
7782-49-2	Selenium	1.15	mg/kg	UN	0.574	1.15	1.15	2	MS	PRB	04/13/10 00:57	100412-3	959129
7440-22-4	Silver	348	ug/Kg	J	117	586	586	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-23-5	Sodium	92000	ug/Kg		8210	29300	29300	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-28-0	Thallium	0.124	mg/kg	J	0.0689	0.23	0.23	2	MS	PRB	04/13/10 00:57	100412-3	959129
7440-61-1	Uranium	1.67	mg/kg		0.0152	0.0459	0.0459	2	MS	PRB	04/13/10 00:57	100412-3	959129
7440-62-2	Vanadium	15800	ug/Kg	E	117	586	586	1	P	HSC	03/30/10 01:46	032910A-1	959127
7440-66-6	Zinc	51400	ug/Kg		387	1170	1170	1	P	HSC	03/30/10 01:46	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.514	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.517	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.528	g	50	mL	03/04/10	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198002

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7403

LEVEL: Low

DATE RECEIVED 26-FEB-10

MATRIX: SOIL

%SOLIDS: 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5160000	ug/Kg		7640	22500	22500	1	P	HSC	03/30/10 02:21	032910A-1	959127
7440-36-0	Antimony	5620	ug/Kg	U	1850	5620	5620	5	P	HSC	04/05/10 09:48	040510-2	959127
7440-38-2	Arsenic	1.08	mg/kg	U	0.215	1.08	1.08	2	MS	PRB	04/13/10 01:26	100412-3	959129
7440-39-3	Barium	59600	ug/Kg	N	112	562	562	1	P	HSC	03/30/10 02:21	032910A-1	959127
7440-41-7	Beryllium	0.108	mg/kg	U	0.0215	0.108	0.108	2	MS	PRB	04/13/10 01:26	100412-3	959129
7440-43-9	Cadmium	335	ug/Kg	J	112	562	562	1	P	HSC	03/30/10 02:21	032910A-1	959127
7440-70-2	Calcium	2870000	ug/Kg		8990	28100	28100	1	P	HSC	03/30/10 02:21	032910A-1	959127
7440-47-3	Chromium	6940	ug/Kg		169	562	562	1	P	HSC	03/30/10 02:21	032910A-1	959127
7440-48-4	Cobalt	1700	ug/Kg		169	562	562	1	P	HSC	03/30/10 02:21	032910A-1	959127
7440-50-8	Copper	23600	ug/Kg		337	1120	1120	1	P	HSC	03/30/10 02:21	032910A-1	959127
7439-89-6	Iron	8630000	ug/Kg		8990	28100	28100	1	P	HSC	03/30/10 02:21	032910A-1	959127
7439-92-1	Lead	15800	ug/Kg	E	281	1120	1120	1	P	HSC	03/30/10 02:21	032910A-1	959127
7439-95-4	Magnesium	1160000	ug/Kg	N	9550	33700	33700	1	P	HSC	03/30/10 02:21	032910A-1	959127
7439-96-5	Manganese	279000	ug/Kg		225	1120	1120	1	P	HSC	03/30/10 02:21	032910A-1	959127
7439-97-6	Mercury	169	ug/kg		4.17	12.3	12.3	1	AV	JXL1	03/12/10 10:51	031210S1-6	958770
7440-02-0	Nickel	0.430	mg/kg	U	0.108	0.43	0.43	2	MS	PRB	04/13/10 01:26	100412-3	959129
7440-09-7	Potassium	1360000	ug/Kg	N	7190	28100	28100	1	P	HSC	03/30/10 02:21	032910A-1	959127
7782-49-2	Selenium	1.08	mg/kg	UN	0.538	1.08	1.08	2	MS	PRB	04/13/10 01:26	100412-3	959129
7440-22-4	Silver	562	ug/Kg	U	112	562	562	1	P	HSC	03/30/10 02:21	032910A-1	959127
7440-23-5	Sodium	455000	ug/Kg		7860	28100	28100	1	P	HSC	03/30/10 02:21	032910A-1	959127
7440-28-0	Thallium	0.215	mg/kg	U	0.0645	0.215	0.215	2	MS	PRB	04/13/10 01:26	100412-3	959129
7440-61-1	Uranium	0.043	mg/kg	U	0.0142	0.043	0.043	2	MS	PRB	04/13/10 01:26	100412-3	959129
7440-62-2	Vanadium	11200	ug/Kg	E	112	562	562	1	P	HSC	03/30/10 02:21	032910A-1	959127
7440-66-6	Zinc	67900	ug/Kg		371	1120	1120	1	P	HSC	03/30/10 02:21	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.569	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.518	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.541	g	50	mL	03/04/10	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198003

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7406

LEVEL: Low

DATE RECEIVED 26-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	6530000	ug/Kg		7200	21200	21200	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-36-0	Antimony	1060	ug/Kg	U	350	1060	1060	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-38-2	Arsenic	1.25	mg/kg		0.223	1.12	1.12	2	MS	PRB	04/13/10 01:30	100412-3	959129
7440-39-3	Barium	65100	ug/Kg	N	106	530	530	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-41-7	Beryllium	0.831	mg/kg		0.0223	0.112	0.112	2	MS	PRB	04/13/10 01:30	100412-3	959129
7440-43-9	Cadmium	241	ug/Kg	J	106	530	530	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-70-2	Calcium	2380000	ug/Kg		8480	26500	26500	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-47-3	Chromium	11300	ug/Kg		159	530	530	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-48-4	Cobalt	2380	ug/Kg		159	530	530	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-50-8	Copper	5180	ug/Kg		318	1060	1060	1	P	HSC	03/30/10 02:28	032910A-1	959127
7439-89-6	Iron	9260000	ug/Kg		8480	26500	26500	1	P	HSC	03/30/10 02:28	032910A-1	959127
7439-92-1	Lead	8550	ug/Kg	E	265	1060	1060	1	P	HSC	03/30/10 02:28	032910A-1	959127
7439-95-4	Magnesium	1320000	ug/Kg	N	9010	31800	31800	1	P	HSC	03/30/10 02:28	032910A-1	959127
7439-96-5	Manganese	290000	ug/Kg		212	1060	1060	1	P	HSC	03/30/10 02:28	032910A-1	959127
7439-97-6	Mercury	32.4	ug/kg		4.18	12.3	12.3	1	AV	JXL1	03/12/10 10:53	031210S1-6	958770
7440-02-0	Nickel	2.41	mg/kg		0.112	0.447	0.447	2	MS	PRB	04/13/10 01:30	100412-3	959129
7440-09-7	Potassium	1270000	ug/Kg	N	6780	26500	26500	1	P	HSC	03/30/10 02:28	032910A-1	959127
7782-49-2	Selenium	1.12	mg/kg	UN	0.558	1.12	1.12	2	MS	PRB	04/13/10 01:30	100412-3	959129
7440-22-4	Silver	530	ug/Kg	U	106	530	530	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-23-5	Sodium	84000	ug/Kg		7420	26500	26500	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-28-0	Thallium	0.595	mg/kg		0.067	0.223	0.223	2	MS	PRB	04/13/10 01:30	100412-3	959129
7440-61-1	Uranium	1.07	mg/kg		0.0147	0.0447	0.0447	2	MS	PRB	04/13/10 01:30	100412-3	959129
7440-62-2	Vanadium	13900	ug/Kg	E	106	530	530	1	P	HSC	03/30/10 02:28	032910A-1	959127
7440-66-6	Zinc	36000	ug/Kg		350	1060	1060	1	P	HSC	03/30/10 02:28	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.545	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.527	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.5	g	50	mL	03/04/10	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198004

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7404

LEVEL: Low

DATE RECEIVED 26-FEB-10

MATRIX: SOIL

%SOLIDS: 88

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5840000	ug/Kg		7430	21800	21800	1	P	HSC	03/30/10 02:49	032910A-1	959127
7440-36-0	Antimony	5460	ug/Kg	U	1800	5460	5460	5	P	HSC	04/05/10 09:55	040510-2	959127
7440-38-2	Arsenic	1.67	mg/kg		0.224	1.12	1.12	2	MS	PRB	04/13/10 01:34	100412-3	959129
7440-39-3	Barium	55600	ug/Kg	N	109	546	546	1	P	HSC	03/30/10 02:49	032910A-1	959127
7440-41-7	Beryllium	1.01	mg/kg		0.0224	0.112	0.112	2	MS	PRB	04/13/10 01:34	100412-3	959129
7440-43-9	Cadmium	245	ug/Kg	J	109	546	546	1	P	HSC	03/30/10 02:49	032910A-1	959127
7440-70-2	Calcium	2620000	ug/Kg		8740	27300	27300	1	P	HSC	03/30/10 02:49	032910A-1	959127
7440-47-3	Chromium	6540	ug/Kg		164	546	546	1	P	HSC	03/30/10 02:49	032910A-1	959127
7440-48-4	Cobalt	1550	ug/Kg		164	546	546	1	P	HSC	03/30/10 02:49	032910A-1	959127
7440-50-8	Copper	14500	ug/Kg		328	1090	1090	1	P	HSC	03/30/10 02:49	032910A-1	959127
7439-89-6	Iron	8530000	ug/Kg		8740	27300	27300	1	P	HSC	03/30/10 02:49	032910A-1	959127
7439-92-1	Lead	11700	ug/Kg	E	273	1090	1090	1	P	HSC	03/30/10 02:49	032910A-1	959127
7439-95-4	Magnesium	1230000	ug/Kg	N	9280	32800	32800	1	P	HSC	03/30/10 02:49	032910A-1	959127
7439-96-5	Manganese	243000	ug/Kg		218	1090	1090	1	P	HSC	03/30/10 02:49	032910A-1	959127
7439-97-6	Mercury	118	ug/kg		4.02	11.8	11.8	1	AV	JXL1	03/12/10 10:55	031210S1-6	958770
7440-02-0	Nickel	5.43	mg/kg		0.112	0.447	0.447	2	MS	PRB	04/13/10 01:34	100412-3	959129
7440-09-7	Potassium	1280000	ug/Kg	N	6990	27300	27300	1	P	HSC	03/30/10 02:49	032910A-1	959127
7782-49-2	Selenium	1.12	mg/kg	UN	0.559	1.12	1.12	2	MS	PRB	04/13/10 01:34	100412-3	959129
7440-22-4	Silver	546	ug/Kg	U	109	546	546	1	P	HSC	03/30/10 02:49	032910A-1	959127
7440-23-5	Sodium	735000	ug/Kg		7640	27300	27300	1	P	HSC	03/30/10 02:49	032910A-1	959127
7440-28-0	Thallium	0.0908	mg/kg	J	0.0671	0.224	0.224	2	MS	PRB	04/13/10 01:34	100412-3	959129
7440-61-1	Uranium	1.3	mg/kg		0.0148	0.0447	0.0447	2	MS	PRB	04/13/10 01:34	100412-3	959129
7440-62-2	Vanadium	11100	ug/Kg	E	109	546	546	1	P	HSC	03/30/10 02:49	032910A-1	959127
7440-66-6	Zinc	51200	ug/Kg		360	1090	1090	1	P	HSC	03/30/10 02:49	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.576	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.52	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.508	g	50	mL	03/04/10	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198005

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7516

LEVEL: Low

DATE RECEIVED 26-FEB-10

MATRIX: SOIL

%SOLIDS: 82

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	7730000	ug/Kg		8110	23800	23800	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-36-0	Antimony	1190	ug/Kg	U	393	1190	1190	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-38-2	Arsenic	2.02	mg/kg		0.244	1.22	1.22	2	MS	PRB	04/13/10 01:38	100412-3	959129
7440-39-3	Barium	95700	ug/Kg	N	119	596	596	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-41-7	Beryllium	0.847	mg/kg		0.0244	0.122	0.122	2	MS	PRB	04/13/10 01:38	100412-3	959129
7440-43-9	Cadmium	455	ug/Kg	J	119	596	596	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-70-2	Calcium	3550000	ug/Kg		9540	29800	29800	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-47-3	Chromium	8290	ug/Kg		179	596	596	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-48-4	Cobalt	3200	ug/Kg		179	596	596	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-50-8	Copper	6550	ug/Kg		358	1190	1190	1	P	HSC	03/30/10 02:56	032910A-1	959127
7439-89-6	Iron	12400000	ug/Kg		9540	29800	29800	1	P	HSC	03/30/10 02:56	032910A-1	959127
7439-92-1	Lead	17000	ug/Kg	E	298	1190	1190	1	P	HSC	03/30/10 02:56	032910A-1	959127
7439-95-4	Magnesium	2000000	ug/Kg	N	10100	35800	35800	1	P	HSC	03/30/10 02:56	032910A-1	959127
7439-96-5	Manganese	604000	ug/Kg		238	1190	1190	1	P	HSC	03/30/10 02:56	032910A-1	959127
7439-97-6	Mercury	121	ug/kg		4.87	14.3	14.3	1	AV	JXL1	03/12/10 10:56	031210S1-6	958770
7440-02-0	Nickel	5.83	mg/kg		0.122	0.488	0.488	2	MS	PRB	04/13/10 01:38	100412-3	959129
7440-09-7	Potassium	2180000	ug/Kg	N	7630	29800	29800	1	P	HSC	03/30/10 02:56	032910A-1	959127
7782-49-2	Selenium	1.22	mg/kg	UN	0.61	1.22	1.22	2	MS	PRB	04/13/10 01:38	100412-3	959129
7440-22-4	Silver	362	ug/Kg	J	119	596	596	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-23-5	Sodium	129000	ug/Kg		8350	29800	29800	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-28-0	Thallium	0.107	mg/kg	J	0.0732	0.244	0.244	2	MS	PRB	04/13/10 01:38	100412-3	959129
7440-61-1	Uranium	1.72	mg/kg		0.0161	0.0488	0.0488	2	MS	PRB	04/13/10 01:38	100412-3	959129
7440-62-2	Vanadium	19100	ug/Kg	E	119	596	596	1	P	HSC	03/30/10 02:56	032910A-1	959127
7440-66-6	Zinc	69900	ug/Kg		393	1190	1190	1	P	HSC	03/30/10 02:56	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt/vol.	Units	Final wt/vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.511	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.512	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.5	g	50	mL	03/04/10	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198006

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7426

LEVEL: Low

DATE RECEIVED 26-FEB-10

MATRIX: SOIL

%SOLIDS: 88

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4860000	ug/Kg		7740	22800	22800	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-36-0	Antimony	1140	ug/Kg	U	375	1140	1140	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-38-2	Arsenic	1.3	mg/kg		0.226	1.13	1.13	2	MS	PRB	04/13/10 01:42	100412-3	959129
7440-39-3	Barium	52700	ug/Kg	N	114	569	569	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-41-7	Beryllium	0.494	mg/kg		0.0226	0.113	0.113	2	MS	PRB	04/13/10 01:42	100412-3	959129
7440-43-9	Cadmium	188	ug/Kg	J	114	569	569	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-70-2	Calcium	1570000	ug/Kg		9100	28400	28400	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-47-3	Chromium	10100	ug/Kg		171	569	569	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-48-4	Cobalt	2080	ug/Kg		171	569	569	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-50-8	Copper	3050	ug/Kg		341	1140	1140	1	P	HSC	03/30/10 03:04	032910A-1	959127
7439-89-6	Iron	7660000	ug/Kg		9100	28400	28400	1	P	HSC	03/30/10 03:04	032910A-1	959127
7439-92-1	Lead	8240	ug/Kg	E	284	1140	1140	1	P	HSC	03/30/10 03:04	032910A-1	959127
7439-95-4	Magnesium	791000	ug/Kg	N	9670	34100	34100	1	P	HSC	03/30/10 03:04	032910A-1	959127
7439-96-5	Manganese	240000	ug/Kg		228	1140	1140	1	P	HSC	03/30/10 03:04	032910A-1	959127
7439-97-6	Mercury	20.7	ug/kg		4.65	13.7	13.7	1	AV	JXL1	03/12/10 10:58	031210S1-6	958770
7440-02-0	Nickel	3.73	mg/kg		0.113	0.452	0.452	2	MS	PRB	04/13/10 01:42	100412-3	959129
7440-09-7	Potassium	840000	ug/Kg	N	7280	28400	28400	1	P	HSC	03/30/10 03:04	032910A-1	959127
7782-49-2	Selenium	1.13	mg/kg	UN	0.564	1.13	1.13	2	MS	PRB	04/13/10 01:42	100412-3	959129
7440-22-4	Silver	569	ug/Kg	U	114	569	569	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-23-5	Sodium	123000	ug/Kg		7960	28400	28400	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-28-0	Thallium	0.226	mg/kg	U	0.0677	0.226	0.226	2	MS	PRB	04/13/10 01:42	100412-3	959129
7440-61-1	Uranium	0.652	mg/kg		0.0149	0.0452	0.0452	2	MS	PRB	04/13/10 01:42	100412-3	959129
7440-62-2	Vanadium	11400	ug/Kg	E	114	569	569	1	P	HSC	03/30/10 03:04	032910A-1	959127
7440-66-6	Zinc	27800	ug/Kg		375	1140	1140	1	P	HSC	03/30/10 03:04	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.501	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.502	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.506	g	50	mL	03/04/10	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198007

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7432

LEVEL: Low

DATE RECEIVED 26-FEB-10

MATRIX: SOIL

%SOLIDS: 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6010000	ug/Kg		7690	22600	22600	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-36-0	Antimony	1130	ug/Kg	U	373	1130	1130	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-38-2	Arsenic	1.72	mg/kg		0.22	1.1	1.1	2	MS	PRB	04/13/10 01:46	100412-3	959129
7440-39-3	Barium	64100	ug/Kg	N	113	565	565	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-41-7	Beryllium	0.957	mg/kg		0.022	0.11	0.11	2	MS	PRB	04/13/10 01:46	100412-3	959129
7440-43-9	Cadmium	355	ug/Kg	J	113	565	565	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-70-2	Calcium	2810000	ug/Kg		9050	28300	28300	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-47-3	Chromium	11900	ug/Kg		170	565	565	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-48-4	Cobalt	1910	ug/Kg		170	565	565	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-50-8	Copper	31000	ug/Kg		339	1130	1130	1	P	HSC	03/30/10 03:11	032910A-1	959127
7439-89-6	Iron	8980000	ug/Kg		9050	28300	28300	1	P	HSC	03/30/10 03:11	032910A-1	959127
7439-92-1	Lead	106000	ug/Kg	E	283	1130	1130	1	P	HSC	03/30/10 03:11	032910A-1	959127
7439-95-4	Magnesium	1210000	ug/Kg	N	9610	33900	33900	1	P	HSC	03/30/10 03:11	032910A-1	959127
7439-96-5	Manganese	228000	ug/Kg		226	1130	1130	1	P	HSC	03/30/10 03:11	032910A-1	959127
7439-97-6	Mercury	10300	ug/kg		453	1330	1330	100	AV	JXL1	03/12/10 14:05	031210S1-6	958770
7440-02-0	Nickel	5.9	mg/kg		0.11	0.44	0.44	2	MS	PRB	04/13/10 01:46	100412-3	959129
7440-09-7	Potassium	850000	ug/Kg	N	7240	28300	28300	1	P	HSC	03/30/10 03:11	032910A-1	959127
7782-49-2	Selenium	1.1	mg/kg	UN	0.55	1.1	1.1	2	MS	PRB	04/13/10 01:46	100412-3	959129
7440-22-4	Silver	320	ug/Kg	J	113	565	565	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-23-5	Sodium	150000	ug/Kg		7920	28300	28300	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-28-0	Thallium	0.0671	mg/kg	J	0.066	0.22	0.22	2	MS	PRB	04/13/10 01:46	100412-3	959129
7440-61-1	Uranium	1.88	mg/kg		0.0145	0.044	0.044	2	MS	PRB	04/13/10 01:46	100412-3	959129
7440-62-2	Vanadium	11400	ug/Kg	E	113	565	565	1	P	HSC	03/30/10 03:11	032910A-1	959127
7440-66-6	Zinc	134000	ug/Kg		373	1130	1130	1	P	HSC	03/30/10 03:11	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.521	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.512	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.526	g	50	mL	03/04/10	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198008

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7431

LEVEL: Low

DATE RECEIVED 26-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	4850000	ug/Kg		7710	22700	22700	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-36-0	Antimony	1130	ug/Kg	U	374	1130	1130	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-38-2	Arsenic	1.25	mg/kg	J	0.255	1.28	1.28	2	MS	PRB	04/13/10 07:48	100412-5	959129
7440-39-3	Barium	75700	ug/Kg	N	113	567	567	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-41-7	Beryllium	0.396	mg/kg		0.0255	0.128	0.128	2	MS	PRB	04/13/10 07:48	100412-5	959129
7440-43-9	Cadmium	902	ug/Kg		113	567	567	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-70-2	Calcium	3200000	ug/Kg		9070	28300	28300	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-47-3	Chromium	13100	ug/Kg		170	567	567	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-48-4	Cobalt	2990	ug/Kg		170	567	567	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-50-8	Copper	4870000	ug/Kg		340	1130	1130	1	P	HSC	03/30/10 03:18	032910A-1	959127
7439-89-6	Iron	9800000	ug/Kg		9070	28300	28300	1	P	HSC	03/30/10 03:18	032910A-1	959127
7439-92-1	Lead	202000	ug/Kg	E	283	1130	1130	1	P	HSC	03/30/10 03:18	032910A-1	959127
7439-95-4	Magnesium	1790000	ug/Kg	N	9640	34000	34000	1	P	HSC	03/30/10 03:18	032910A-1	959127
7439-96-5	Manganese	271000	ug/Kg		227	1130	1130	1	P	HSC	03/30/10 03:18	032910A-1	959127
7439-97-6	Mercury	14800	ug/kg		515	1510	1510	100	AV	JXL	03/12/10 14:07	031210S1-6	958770
7440-02-0	Nickel	4.47	mg/kg		0.128	0.511	0.511	2	MS	PRB	04/13/10 07:48	100412-5	959129
7440-09-7	Potassium	1070000	ug/Kg	N	7260	28300	28300	1	P	HSC	03/30/10 03:18	032910A-1	959127
7782-49-2	Selenium	1.28	mg/kg	UN	0.638	1.28	1.28	2	MS	PRB	04/13/10 07:48	100412-5	959129
7440-22-4	Silver	1150	ug/Kg		113	567	567	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-23-5	Sodium	126000	ug/Kg		7940	28300	28300	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-28-0	Thallium	0.0789	mg/kg	J	0.0766	0.255	0.255	2	MS	PRB	04/13/10 07:48	100412-5	959129
7440-61-1	Uranium	3.1	mg/kg		0.0168	0.0511	0.0511	2	MS	PRB	04/13/10 07:48	100412-5	959129
7440-62-2	Vanadium	16300	ug/Kg	E	113	567	567	1	P	HSC	03/30/10 03:18	032910A-1	959127
7440-66-6	Zinc	936000	ug/Kg		374	1130	1130	1	P	HSC	03/30/10 03:18	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.515	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.573	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.509	g	50	mL	03/04/10	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198009

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7434

LEVEL: Low

DATE RECEIVED 26-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	5540000	ug/Kg		8800	25900	25900	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-36-0	Antimony	1290	ug/Kg	U	427	1290	1290	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-38-2	Arsenic	1.82	mg/kg		0.241	1.21	1.21	2	MS	PRB	04/13/10 02:03	100412-3	959129
7440-39-3	Barium	71100	ug/Kg	N	129	647	647	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-41-7	Beryllium	0.537	mg/kg		0.0241	0.121	0.121	2	MS	PRB	04/13/10 02:03	100412-3	959129
7440-43-9	Cadmium	286	ug/Kg	J	129	647	647	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-70-2	Calcium	2480000	ug/Kg		10400	32300	32300	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-47-3	Chromium	8080	ug/Kg		194	647	647	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-48-4	Cobalt	2130	ug/Kg		194	647	647	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-50-8	Copper	5050	ug/Kg		388	1290	1290	1	P	HSC	03/30/10 03:25	032910A-1	959127
7439-89-6	Iron	8170000	ug/Kg		10400	32300	32300	1	P	HSC	03/30/10 03:25	032910A-1	959127
7439-92-1	Lead	11900	ug/Kg	E	323	1290	1290	1	P	HSC	03/30/10 03:25	032910A-1	959127
7439-95-4	Magnesium	1140000	ug/Kg	N	11000	38800	38800	1	P	IISC	03/30/10 03:25	032910A-1	959127
7439-96-5	Manganese	267000	ug/Kg		259	1290	1290	1	P	IISC	03/30/10 03:25	032910A-1	959127
7439-97-6	Mercury	65.1	ug/kg		4.68	13.8	13.8	1	AV	JXL1	03/12/10 11:06	031210S1-6	958770
7440-02-0	Nickel	4.2	mg/kg		0.121	0.483	0.483	2	MS	PRB	04/13/10 02:03	100412-3	959129
7440-09-7	Potassium	995000	ug/Kg	N	8280	32300	32300	1	P	HSC	03/30/10 03:25	032910A-1	959127
7782-49-2	Selenium	1.21	mg/kg	UN	0.604	1.21	1.21	2	MS	PRB	04/13/10 02:03	100412-3	959129
7440-22-4	Silver	149	ug/Kg	J	129	647	647	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-23-5	Sodium	96600	ug/Kg		9060	32300	32300	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-28-0	Thallium	0.104	mg/kg	J	0.0724	0.241	0.241	2	MS	PRB	04/13/10 02:03	100412-3	959129
7440-61-1	Uranium	1.41	mg/kg		0.0159	0.0483	0.0483	2	MS	PRB	04/13/10 02:03	100412-3	959129
7440-62-2	Vanadium	13200	ug/Kg	E	129	647	647	1	P	HSC	03/30/10 03:25	032910A-1	959127
7440-66-6	Zinc	30300	ug/Kg		427	1290	1290	1	P	HSC	03/30/10 03:25	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.565	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.501	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.537	g	50	mL	03/04/10	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198010

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7425

LEVEL: Low

DATE RECEIVED 26-FEB-10

MATRIX: SOIL

%SOLIDS: 78

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6550000	ug/Kg		7770	22900	22900	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-36-0	Antimony	1140	ug/Kg	U	377	1140	1140	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-38-2	Arsenic	1.69	mg/kg		0.245	1.22	1.22	2	MS	PRB	04/13/10 02:07	100412-3	959129
7440-39-3	Barium	99000	ug/Kg	N	114	571	571	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-41-7	Beryllium	0.734	mg/kg		0.0245	0.122	0.122	2	MS	PRB	04/13/10 02:07	100412-3	959129
7440-43-9	Cadmium	316	ug/Kg	J	114	571	571	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-70-2	Calcium	3560000	ug/Kg		9140	28600	28600	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-47-3	Chromium	8090	ug/Kg		171	571	571	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-48-4	Cobalt	3030	ug/Kg		171	571	571	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-50-8	Copper	6870	ug/Kg		343	1140	1140	1	P	HSC	03/30/10 03:32	032910A-1	959127
7439-89-6	Iron	9660000	ug/Kg		9140	28600	28600	1	P	HSC	03/30/10 03:32	032910A-1	959127
7439-92-1	Lead	14900	ug/Kg	E	286	1140	1140	1	P	HSC	03/30/10 03:32	032910A-1	959127
7439-95-4	Magnesium	1420000	ug/Kg	N	9710	34300	34300	1	P	HSC	03/30/10 03:32	032910A-1	959127
7439-96-5	Manganese	506000	ug/Kg		229	1140	1140	1	P	HSC	03/30/10 03:32	032910A-1	959127
7439-97-6	Mercury	31.6	ug/kg		4.8	14.1	14.1	1	AV	JXL1	03/12/10 11:08	031210S1-6	958770
7440-02-0	Nickel	6.24	mg/kg		0.122	0.489	0.489	2	MS	PRB	04/13/10 02:07	100412-3	959129
7440-09-7	Potassium	1380000	ug/Kg	N	7310	28600	28600	1	P	HSC	03/30/10 03:32	032910A-1	959127
7782-49-2	Selenium	1.22	mg/kg	UN	0.612	1.22	1.22	2	MS	PRB	04/13/10 02:07	100412-3	959129
7440-22-4	Silver	310	ug/Kg	J	114	571	571	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-23-5	Sodium	86200	ug/Kg		8000	28600	28600	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-28-0	Thallium	0.102	mg/kg	J	0.0734	0.245	0.245	2	MS	PRB	04/13/10 02:07	100412-3	959129
7440-61-1	Uranium	1.37	mg/kg		0.0161	0.0489	0.0489	2	MS	PRB	04/13/10 02:07	100412-3	959129
7440-62-2	Vanadium	15500	ug/Kg	E	114	571	571	1	P	HSC	03/30/10 03:32	032910A-1	959127
7440-66-6	Zinc	39700	ug/Kg		377	1140	1140	1	P	HSC	03/30/10 03:32	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.546	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.562	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.525	g	50	mL	03/04/10	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198011

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7429

LEVEL: Low

DATE RECEIVED 26-FEB-10

MATRIX: SOIL

%SOLIDS: 70

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6250000	ug/Kg		9540	28100	28100	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-36-0	Antimony	1400	ug/Kg	U	463	1400	1400	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-38-2	Arsenic	1.84	mg/kg		0.27	1.35	1.35	2	MS	PRB	04/13/10 02:11	100412-3	959129
7440-39-3	Barium	105000	ug/Kg	N	140	702	702	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-41-7	Beryllium	0.827	mg/kg		0.027	0.135	0.135	2	MS	PRB	04/13/10 02:11	100412-3	959129
7440-43-9	Cadmium	384	ug/Kg	J	140	702	702	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-70-2	Calcium	4100000	ug/Kg		11200	35100	35100	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-47-3	Chromium	8590	ug/Kg		210	702	702	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-48-4	Cobalt	2850	ug/Kg		210	702	702	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-50-8	Copper	6640	ug/Kg		421	1400	1400	1	P	HSC	03/30/10 03:40	032910A-1	959127
7439-89-6	Iron	10300000	ug/Kg		11200	35100	35100	1	P	HSC	03/30/10 03:40	032910A-1	959127
7439-92-1	Lead	15500	ug/Kg	E	351	1400	1400	1	P	HSC	03/30/10 03:40	032910A-1	959127
7439-95-4	Magnesium	1580000	ug/Kg	N	11900	42100	42100	1	P	HSC	03/30/10 03:40	032910A-1	959127
7439-96-5	Manganese	605000	ug/Kg		281	1400	1400	1	P	HSC	03/30/10 03:40	032910A-1	959127
7439-97-6	Mercury	23.6	ug/kg		5	14.7	14.7	1	AV	JXL	03/12/10 11:10	031210S1-6	958770
7440-02-0	Nickel	5.52	mg/kg		0.135	0.541	0.541	2	MS	PRB	04/13/10 02:11	100412-3	959129
7440-09-7	Potassium	1630000	ug/Kg	N	8980	35100	35100	1	P	HSC	03/30/10 03:40	032910A-1	959127
7782-49-2	Selenium	1.35	mg/kg	UN	0.676	1.35	1.35	2	MS	PRB	04/13/10 02:11	100412-3	959129
7440-22-4	Silver	328	ug/Kg	J	140	702	702	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-23-5	Sodium	75300	ug/Kg		9820	35100	35100	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-28-0	Thallium	0.270	mg/kg	U	0.0811	0.27	0.27	2	MS	PRB	04/13/10 02:11	100412-3	959129
7440-61-1	Uranium	1.85	mg/kg		0.0179	0.0541	0.0541	2	MS	PRB	04/13/10 02:11	100412-3	959129
7440-62-2	Vanadium	15800	ug/Kg	E	140	702	702	1	P	HSC	03/30/10 03:40	032910A-1	959127
7440-66-6	Zinc	200000	ug/Kg		463	1400	1400	1	P	HSC	03/30/10 03:40	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.581	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.507	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.526	g	50	mL	03/04/10	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248198012

BASIS: Dry Weight

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7433

LEVEL: Low

DATE RECEIVED 26-FEB-10

MATRIX: SOIL

%SOLIDS: 71

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6760000	ug/Kg		9120	26800	26800	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-36-0	Antimony	1340	ug/Kg	U	443	1340	1340	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-38-2	Arsenic	2.38	mg/kg		0.278	1.39	1.39	2	MS	PRB	04/13/10 02:15	100412-3	959129
7440-39-3	Barium	121000	ug/Kg	N	134	671	671	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-41-7	Beryllium	0.733	mg/kg		0.0278	0.139	0.139	2	MS	PRB	04/13/10 02:15	100412-3	959129
7440-43-9	Cadmium	510	ug/Kg	J	134	671	671	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-70-2	Calcium	4440000	ug/Kg		10700	33500	33500	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-47-3	Chromium	7890	ug/Kg		201	671	671	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-48-4	Cobalt	3640	ug/Kg		201	671	671	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-50-8	Copper	12200	ug/Kg		403	1340	1340	1	P	HSC	03/30/10 03:47	032910A-1	959127
7439-89-6	Iron	9550000	ug/Kg		10700	33500	33500	1	P	HSC	03/30/10 03:47	032910A-1	959127
7439-92-1	Lead	27100	ug/Kg	E	335	1340	1340	1	P	HSC	03/30/10 03:47	032910A-1	959127
7439-95-4	Magnesium	1750000	ug/Kg	N	11400	40300	40300	1	P	HSC	03/30/10 03:47	032910A-1	959127
7439-96-5	Manganese	520000	ug/Kg		268	1340	1340	1	P	HSC	03/30/10 03:47	032910A-1	959127
7439-97-6	Mercury	44.9	ug/kg		5.5	16.2	16.2	1	AV	JXL1	03/12/10 11:12	031210S1-6	958770
7440-02-0	Nickel	5.88	mg/kg		0.139	0.556	0.556	2	MS	PRB	04/13/10 02:15	100412-3	959129
7440-09-7	Potassium	1480000	ug/Kg	N	8590	33500	33500	1	P	HSC	03/30/10 03:47	032910A-1	959127
7782-49-2	Selenium	1.39	mg/kg	UN	0.695	1.39	1.39	2	MS	PRB	04/13/10 02:15	100412-3	959129
7440-22-4	Silver	165	ug/Kg	J	134	671	671	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-23-5	Sodium	84100	ug/Kg		9390	33500	33500	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-28-0	Thallium	0.278	mg/kg	U	0.0834	0.278	0.278	2	MS	PRB	04/13/10 02:15	100412-3	959129
7440-61-1	Uranium	3.88	mg/kg		0.0183	0.0556	0.0556	2	MS	PRB	04/13/10 02:15	100412-3	959129
7440-62-2	Vanadium	17200	ug/Kg	E	134	671	671	1	P	HSC	03/30/10 03:47	032910A-1	959127
7440-66-6	Zinc	44800	ug/Kg		443	1340	1340	1	P	HSC	03/30/10 03:47	032910A-1	959127

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt/vol	Units	Final wt/vol	Units	Date	Analyst
958770	958769	SW846 7471A Prep	0.52	g	30	mL	03/11/10	TXB3
959127	959126	SW846 3050B	0.522	g	50	mL	03/04/10	FGA
959129	959128	SW846 3050B	0.504	g	50	mL	03/04/10	FGA

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01										
	Mercury	5.14	ug/L	5	ug/L	102.8	90.0 – 110.0	AV	12-MAR-10 09:18	031210S1-6
	Aluminum	4930	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	29-MAR-10 09:46	032910A-1
	Antimony	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	29-MAR-10 09:46	032910A-1
	Barium	515	ug/L	500	ug/L	102.9	90.0 – 110.0	P	29-MAR-10 09:46	032910A-1
	Cadmium	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	29-MAR-10 09:46	032910A-1
	Calcium	4780	ug/L	5000	ug/L	95.6	90.0 – 110.0	P	29-MAR-10 09:46	032910A-1
	Chromium	494	ug/L	500	ug/L	98.7	90.0 – 110.0	P	29-MAR-10 09:46	032910A-1
	Cobalt	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	29-MAR-10 09:46	032910A-1
	Copper	514	ug/L	500	ug/L	102.7	90.0 – 110.0	P	29-MAR-10 09:46	032910A-1
	Iron	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	29-MAR-10 09:46	032910A-1
	Lead	489	ug/L	500	ug/L	97.8	90.0 – 110.0	P	29-MAR-10 09:46	032910A-1
	Magnesium	5130	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	29-MAR-10 09:46	032910A-1
	Manganese	505	ug/L	500	ug/L	101	90.0 – 110.0	P	29-MAR-10 09:46	032910A-1
	Potassium	2550	ug/L	2500	ug/L	102.1	90.0 – 110.0	P	29-MAR-10 09:46	032910A-1
	Silver	254	ug/L	250	ug/L	101.6	90.0 – 110.0	P	29-MAR-10 09:46	032910A-1
	Sodium	2350	ug/L	2500	ug/L	94.1	90.0 – 110.0	P	29-MAR-10 09:46	032910A-1
	Vanadium	507	ug/L	500	ug/L	101.3	90.0 – 110.0	P	29-MAR-10 09:46	032910A-1
	Zinc	497	ug/L	500	ug/L	99.3	90.0 – 110.0	P	29-MAR-10 09:46	032910A-1
	Antimony	521	ug/L	500	ug/L	104.2	90.0 – 110.0	P	05-APR-10 08:15	040510-2
	Arsenic	51.2	ug/L	50	ug/L	102.5	90.0 – 110.0	MS	12-APR-10 22:58	100412-3
	Beryllium	49.7	ug/L	50	ug/L	99.5	90.0 – 110.0	MS	12-APR-10 22:58	100412-3
	Nickel	51.3	ug/L	50	ug/L	102.6	90.0 – 110.0	MS	12-APR-10 22:58	100412-3
	Selenium	50.6	ug/L	50	ug/L	101.2	90.0 – 110.0	MS	12-APR-10 22:58	100412-3
	Thallium	48.8	ug/L	50	ug/L	97.5	90.0 – 110.0	MS	12-APR-10 22:58	100412-3
	Uranium	50.9	ug/L	50	ug/L	101.7	90.0 – 110.0	MS	12-APR-10 22:58	100412-3
	Arsenic	51.1	ug/L	50	ug/L	102.1	90.0 – 110.0	MS	13-APR-10 04:47	100412-5
	Beryllium	48.7	ug/L	50	ug/L	97.4	90.0 – 110.0	MS	13-APR-10 04:47	100412-5
	Nickel	51	ug/L	50	ug/L	102	90.0 – 110.0	MS	13-APR-10 04:47	100412-5
	Selenium	51.1	ug/L	50	ug/L	102.2	90.0 – 110.0	MS	13-APR-10 04:47	100412-5
	Thallium	49.4	ug/L	50	ug/L	98.8	90.0 – 110.0	MS	13-APR-10 04:47	100412-5

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV01	Uranium	50.4	ug/L	50	ug/L	100.8	90.0 – 110.0	MS	13-APR-10 04:47	100412-5
	Mercury	5.09	ug/L	5	ug/L	101.7	80.0 – 120.0	AV	12-MAR-10 09:23	031210S1-6
	Aluminum	4740	ug/L	5000	ug/L	94.8	90.0 – 110.0	P	29-MAR-10 10:34	032910A-1
	Antimony	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	29-MAR-10 10:34	032910A-1
	Barium	508	ug/L	500	ug/L	101.5	90.0 – 110.0	P	29-MAR-10 10:34	032910A-1
	Cadmium	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	29-MAR-10 10:34	032910A-1
	Calcium	4840	ug/L	5000	ug/L	96.7	90.0 – 110.0	P	29-MAR-10 10:34	032910A-1
	Chromium	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	29-MAR-10 10:34	032910A-1
	Cobalt	481	ug/L	500	ug/L	96.3	90.0 – 110.0	P	29-MAR-10 10:34	032910A-1
	Copper	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	29-MAR-10 10:34	032910A-1
	Iron	5110	ug/L	5000	ug/L	102.2	90.0 – 110.0	P	29-MAR-10 10:34	032910A-1
	Lead	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	29-MAR-10 10:34	032910A-1
	Magnesium	5100	ug/L	5000	ug/L	101.9	90.0 – 110.0	P	29-MAR-10 10:34	032910A-1
	Manganese	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	29-MAR-10 10:34	032910A-1
	Potassium	5250	ug/L	5000	ug/L	105	90.0 – 110.0	P	29-MAR-10 10:34	032910A-1
	Silver	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	29-MAR-10 10:34	032910A-1
	Sodium	9810	ug/L	10000	ug/L	98.1	90.0 – 110.0	P	29-MAR-10 10:34	032910A-1
	Vanadium	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	29-MAR-10 10:34	032910A-1
	Zinc	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	29-MAR-10 10:34	032910A-1
	Antimony	512	ug/L	500	ug/L	102.5	90.0 – 110.0	P	05-APR-10 09:04	040510-2
	Arsenic	49.8	ug/L	50	ug/L	99.5	90.0 – 110.0	MS	12-APR-10 23:18	100412-3
	Beryllium	50.1	ug/L	50	ug/L	100.2	90.0 – 110.0	MS	12-APR-10 23:18	100412-3
	Nickel	50.2	ug/L	50	ug/L	100.3	90.0 – 110.0	MS	12-APR-10 23:18	100412-3
	Selenium	50.4	ug/L	50	ug/L	100.8	90.0 – 110.0	MS	12-APR-10 23:18	100412-3
	Thallium	46.2	ug/L	50	ug/L	92.4	90.0 – 110.0	MS	12-APR-10 23:18	100412-3
	Uranium	49.4	ug/L	50	ug/L	98.8	90.0 – 110.0	MS	12-APR-10 23:18	100412-3
	Arsenic	52.5	ug/L	50	ug/L	105.1	90.0 – 110.0	MS	13-APR-10 05:08	100412-5
	Beryllium	47.8	ug/L	50	ug/L	95.7	90.0 – 110.0	MS	13-APR-10 05:08	100412-5
	Nickel	52.6	ug/L	50	ug/L	105.1	90.0 – 110.0	MS	13-APR-10 05:08	100412-5

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Selenium	51.4	ug/L	50	ug/L	102.8	90.0 – 110.0	MS	13-APR-10 05:08	100412-5
	Thallium	48.3	ug/L	50	ug/L	96.5	90.0 – 110.0	MS	13-APR-10 05:08	100412-5
	Uranium	51.8	ug/L	50	ug/L	103.5	90.0 – 110.0	MS	13-APR-10 05:08	100412-5
CCV02										
	Mercury	5.13	ug/L	5	ug/L	102.6	80.0 – 120.0	AV	12-MAR-10 09:43	031210S1-6
	Aluminum	4590	ug/L	5000	ug/L	91.8	90.0 – 110.0	P	29-MAR-10 11:00	032910A-1
	Antimony	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	29-MAR-10 11:00	032910A-1
	Barium	500	ug/L	500	ug/L	100	90.0 – 110.0	P	29-MAR-10 11:00	032910A-1
	Cadmium	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	29-MAR-10 11:00	032910A-1
	Calcium	4870	ug/L	5000	ug/L	97.4	90.0 – 110.0	P	29-MAR-10 11:00	032910A-1
	Chromium	500	ug/L	500	ug/L	100	90.0 – 110.0	P	29-MAR-10 11:00	032910A-1
	Cobalt	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	29-MAR-10 11:00	032910A-1
	Copper	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	29-MAR-10 11:00	032910A-1
	Iron	5090	ug/L	5000	ug/L	101.7	90.0 – 110.0	P	29-MAR-10 11:00	032910A-1
	Lead	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	29-MAR-10 11:00	032910A-1
	Magnesium	5150	ug/L	5000	ug/L	102.9	90.0 – 110.0	P	29-MAR-10 11:00	032910A-1
	Manganese	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	29-MAR-10 11:00	032910A-1
	Potassium	4840	ug/L	5000	ug/L	96.8	90.0 – 110.0	P	29-MAR-10 11:00	032910A-1
	Silver	502	ug/L	500	ug/L	100.3	90.0 – 110.0	P	29-MAR-10 11:00	032910A-1
	Sodium	9080	ug/L	10000	ug/L	90.9	90.0 – 110.0	P	29-MAR-10 11:00	032910A-1
	Vanadium	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	29-MAR-10 11:00	032910A-1
	Zinc	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	29-MAR-10 11:00	032910A-1
	Antimony	505	ug/L	500	ug/L	101	90.0 – 110.0	P	05-APR-10 09:33	040510-2
	Arsenic	49.6	ug/L	50	ug/L	99.2	90.0 – 110.0	MS	12-APR-10 23:59	100412-3
	Beryllium	51.8	ug/L	50	ug/L	103.5	90.0 – 110.0	MS	12-APR-10 23:59	100412-3
	Nickel	49.6	ug/L	50	ug/L	99.2	90.0 – 110.0	MS	12-APR-10 23:59	100412-3
	Selenium	48.5	ug/L	50	ug/L	97	90.0 – 110.0	MS	12-APR-10 23:59	100412-3
	Thallium	47.1	ug/L	50	ug/L	94.2	90.0 – 110.0	MS	12-APR-10 23:59	100412-3
	Uranium	49.4	ug/L	50	ug/L	98.7	90.0 – 110.0	MS	12-APR-10 23:59	100412-3
	Arsenic	51.2	ug/L	50	ug/L	102.3	90.0 – 110.0	MS	13-APR-10 05:49	100412-5

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Beryllium	49.8	ug/L	50	ug/L	99.6	90.0 - 110.0	MS	13-APR-10 05:49	100412-5
	Nickel	51.3	ug/L	50	ug/L	102.5	90.0 - 110.0	MS	13-APR-10 05:49	100412-5
	Selenium	51	ug/L	50	ug/L	102.1	90.0 - 110.0	MS	13-APR-10 05:49	100412-5
	Thallium	49.2	ug/L	50	ug/L	98.4	90.0 - 110.0	MS	13-APR-10 05:49	100412-5
	Uranium	52.1	ug/L	50	ug/L	104.1	90.0 - 110.0	MS	13-APR-10 05:49	100412-5
CCV03										
	Mercury	5.24	ug/L	5	ug/L	104.7	80.0 - 120.0	AV	12-MAR-10 10:03	031210S1-6
	Aluminum	5010	ug/L	5000	ug/L	100.2	90.0 - 110.0	P	29-MAR-10 12:01	032910A-1
	Antimony	488	ug/L	500	ug/L	97.7	90.0 - 110.0	P	29-MAR-10 12:01	032910A-1
	Barium	490	ug/L	500	ug/L	98	90.0 - 110.0	P	29-MAR-10 12:01	032910A-1
	Cadmium	492	ug/L	500	ug/L	98.4	90.0 - 110.0	P	29-MAR-10 12:01	032910A-1
	Calcium	4880	ug/L	5000	ug/L	97.7	90.0 - 110.0	P	29-MAR-10 12:01	032910A-1
	Chromium	489	ug/L	500	ug/L	97.9	90.0 - 110.0	P	29-MAR-10 12:01	032910A-1
	Cobalt	490	ug/L	500	ug/L	98.1	90.0 - 110.0	P	29-MAR-10 12:01	032910A-1
	Copper	482	ug/L	500	ug/L	96.3	90.0 - 110.0	P	29-MAR-10 12:01	032910A-1
	Iron	5230	ug/L	5000	ug/L	104.6	90.0 - 110.0	P	29-MAR-10 12:01	032910A-1
	Lead	483	ug/L	500	ug/L	96.5	90.0 - 110.0	P	29-MAR-10 12:01	032910A-1
	Magnesium	5270	ug/L	5000	ug/L	105.4	90.0 - 110.0	P	29-MAR-10 12:01	032910A-1
	Manganese	483	ug/L	500	ug/L	96.6	90.0 - 110.0	P	29-MAR-10 12:01	032910A-1
	Potassium	5310	ug/L	5000	ug/L	106.2	90.0 - 110.0	P	29-MAR-10 12:01	032910A-1
	Silver	491	ug/L	500	ug/L	98.1	90.0 - 110.0	P	29-MAR-10 12:01	032910A-1
	Sodium	10500	ug/L	10000	ug/L	105	90.0 - 110.0	P	29-MAR-10 12:01	032910A-1
	Vanadium	495	ug/L	500	ug/L	98.9	90.0 - 110.0	P	29-MAR-10 12:01	032910A-1
	Zinc	485	ug/L	500	ug/L	96.9	90.0 - 110.0	P	29-MAR-10 12:01	032910A-1
	Antimony	509	ug/L	500	ug/L	101.9	90.0 - 110.0	P	05-APR-10 10:29	040510-2
	Arsenic	48.9	ug/L	50	ug/L	97.7	90.0 - 110.0	MS	13-APR-10 00:40	100412-3
	Beryllium	51.4	ug/L	50	ug/L	102.7	90.0 - 110.0	MS	13-APR-10 00:40	100412-3
	Nickel	47.9	ug/L	50	ug/L	95.8	90.0 - 110.0	MS	13-APR-10 00:40	100412-3
	Selenium	48.9	ug/L	50	ug/L	97.8	90.0 - 110.0	MS	13-APR-10 00:40	100412-3
	Thallium	46.9	ug/L	50	ug/L	93.7	90.0 - 110.0	MS	13-APR-10 00:40	100412-3

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Uranium	48.7	ug/L	50	ug/L	97.3	90.0 - 110.0	MS	13-APR-10 00:40	100412-3
	Arsenic	48.3	ug/L	50	ug/L	96.7	90.0 - 110.0	MS	13-APR-10 06:30	100412-5
	Beryllium	47.7	ug/L	50	ug/L	95.4	90.0 - 110.0	MS	13-APR-10 06:30	100412-5
	Nickel	48.9	ug/L	50	ug/L	97.8	90.0 - 110.0	MS	13-APR-10 06:30	100412-5
	Selenium	46.8	ug/L	50	ug/L	93.6	90.0 - 110.0	MS	13-APR-10 06:30	100412-5
	Thallium	46.8	ug/L	50	ug/L	93.6	90.0 - 110.0	MS	13-APR-10 06:30	100412-5
	Uranium	50	ug/L	50	ug/L	100	90.0 - 110.0	MS	13-APR-10 06:30	100412-5
CCV04										
	Mercury	5.26	ug/L	5	ug/L	105.3	80.0 - 120.0	AV	12-MAR-10 10:23	031210S1-6
	Aluminum	4810	ug/L	5000	ug/L	96.1	90.0 - 110.0	P	29-MAR-10 13:03	032910A-1
	Antimony	533	ug/L	500	ug/L	106.5	90.0 - 110.0	P	29-MAR-10 13:03	032910A-1
	Barium	528	ug/L	500	ug/L	105.7	90.0 - 110.0	P	29-MAR-10 13:03	032910A-1
	Cadmium	533	ug/L	500	ug/L	106.6	90.0 - 110.0	P	29-MAR-10 13:03	032910A-1
	Calcium	4860	ug/L	5000	ug/L	97.2	90.0 - 110.0	P	29-MAR-10 13:03	032910A-1
	Chromium	528	ug/L	500	ug/L	105.5	90.0 - 110.0	P	29-MAR-10 13:03	032910A-1
	Cobalt	530	ug/L	500	ug/L	106	90.0 - 110.0	P	29-MAR-10 13:03	032910A-1
	Copper	523	ug/L	500	ug/L	104.6	90.0 - 110.0	P	29-MAR-10 13:03	032910A-1
	Iron	5100	ug/L	5000	ug/L	102	90.0 - 110.0	P	29-MAR-10 13:03	032910A-1
	Lead	516	ug/L	500	ug/L	103.1	90.0 - 110.0	P	29-MAR-10 13:03	032910A-1
	Magnesium	5210	ug/L	5000	ug/L	104.2	90.0 - 110.0	P	29-MAR-10 13:03	032910A-1
	Manganese	522	ug/L	500	ug/L	104.4	90.0 - 110.0	P	29-MAR-10 13:03	032910A-1
	Potassium	5080	ug/L	5000	ug/L	101.6	90.0 - 110.0	P	29-MAR-10 13:03	032910A-1
	Silver	530	ug/L	500	ug/L	106	90.0 - 110.0	P	29-MAR-10 13:03	032910A-1
	Sodium	9610	ug/L	10000	ug/L	96.1	90.0 - 110.0	P	29-MAR-10 13:03	032910A-1
	Vanadium	533	ug/L	500	ug/L	106.6	90.0 - 110.0	P	29-MAR-10 13:03	032910A-1
	Zinc	526	ug/L	500	ug/L	105.2	90.0 - 110.0	P	29-MAR-10 13:03	032910A-1
	Arsenic	50.1	ug/L	50	ug/L	100.3	90.0 - 110.0	MS	13-APR-10 01:18	100412-3
	Beryllium	53.2	ug/L	50	ug/L	106.5	90.0 - 110.0	MS	13-APR-10 01:18	100412-3
	Nickel	49.3	ug/L	50	ug/L	98.5	90.0 - 110.0	MS	13-APR-10 01:18	100412-3
	Selenium	50.2	ug/L	50	ug/L	100.4	90.0 - 110.0	MS	13-APR-10 01:18	100412-3

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Thallium	47.9	ug/L	50	ug/L	95.7	90.0 – 110.0	MS	13-APR-10 01:18	100412-3
	Uranium	51	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	13-APR-10 01:18	100412-3
	Arsenic	51.1	ug/L	50	ug/L	102.2	90.0 – 110.0	MS	13-APR-10 07:07	100412-5
	Beryllium	50.4	ug/L	50	ug/L	100.7	90.0 – 110.0	MS	13-APR-10 07:07	100412-5
	Nickel	51.2	ug/L	50	ug/L	102.3	90.0 – 110.0	MS	13-APR-10 07:07	100412-5
	Selenium	51.4	ug/L	50	ug/L	102.8	90.0 – 110.0	MS	13-APR-10 07:07	100412-5
	Thallium	49.7	ug/L	50	ug/L	99.4	90.0 – 110.0	MS	13-APR-10 07:07	100412-5
	Uranium	52.2	ug/L	50	ug/L	104.4	90.0 – 110.0	MS	13-APR-10 07:07	100412-5
CCV05										
	Mercury	4.86	ug/L	5	ug/L	97.2	80.0 – 120.0	AV	12-MAR-10 10:43	031210S1-6
	Aluminum	4720	ug/L	5000	ug/L	94.4	90.0 – 110.0	P	29-MAR-10 14:12	032910A-1
	Antimony	537	ug/L	500	ug/L	107.5	90.0 – 110.0	P	29-MAR-10 14:12	032910A-1
	Barium	529	ug/L	500	ug/L	105.8	90.0 – 110.0	P	29-MAR-10 14:12	032910A-1
	Cadmium	532	ug/L	500	ug/L	106.4	90.0 – 110.0	P	29-MAR-10 14:12	032910A-1
	Calcium	4920	ug/L	5000	ug/L	98.3	90.0 – 110.0	P	29-MAR-10 14:12	032910A-1
	Chromium	524	ug/L	500	ug/L	104.9	90.0 – 110.0	P	29-MAR-10 14:12	032910A-1
	Cobalt	532	ug/L	500	ug/L	106.4	90.0 – 110.0	P	29-MAR-10 14:12	032910A-1
	Copper	518	ug/L	500	ug/L	103.6	90.0 – 110.0	P	29-MAR-10 14:12	032910A-1
	Iron	5280	ug/L	5000	ug/L	105.6	90.0 – 110.0	P	29-MAR-10 14:12	032910A-1
	Lead	522	ug/L	500	ug/L	104.3	90.0 – 110.0	P	29-MAR-10 14:12	032910A-1
	Magnesium	5320	ug/L	5000	ug/L	106.4	90.0 – 110.0	P	29-MAR-10 14:12	032910A-1
	Manganese	522	ug/L	500	ug/L	104.4	90.0 – 110.0	P	29-MAR-10 14:12	032910A-1
	Potassium	5070	ug/L	5000	ug/L	101.4	90.0 – 110.0	P	29-MAR-10 14:12	032910A-1
	Silver	527	ug/L	500	ug/L	105.4	90.0 – 110.0	P	29-MAR-10 14:12	032910A-1
	Sodium	10300	ug/L	10000	ug/L	102.8	90.0 – 110.0	P	29-MAR-10 14:12	032910A-1
	Vanadium	528	ug/L	500	ug/L	105.7	90.0 – 110.0	P	29-MAR-10 14:12	032910A-1
	Zinc	528	ug/L	500	ug/L	105.5	90.0 – 110.0	P	29-MAR-10 14:12	032910A-1
	Arsenic	48.8	ug/L	50	ug/L	97.7	90.0 – 110.0	MS	13-APR-10 01:50	100412-3
	Beryllium	52.5	ug/L	50	ug/L	105.1	90.0 – 110.0	MS	13-APR-10 01:50	100412-3
	Nickel	48	ug/L	50	ug/L	96	90.0 – 110.0	MS	13-APR-10 01:50	100412-3

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Selenium	48.8	ug/L	50	ug/L	97.7	90.0 – 110.0	MS	13-APR-10 01:50	100412-3
	Thallium	47.4	ug/L	50	ug/L	94.9	90.0 – 110.0	MS	13-APR-10 01:50	100412-3
	Uranium	49.5	ug/L	50	ug/L	99	90.0 – 110.0	MS	13-APR-10 01:50	100412-3
	Arsenic	50.8	ug/L	50	ug/L	101.7	90.0 – 110.0	MS	13-APR-10 07:40	100412-5
	Beryllium	51.9	ug/L	50	ug/L	103.8	90.0 – 110.0	MS	13-APR-10 07:40	100412-5
	Nickel	52.3	ug/L	50	ug/L	104.5	90.0 – 110.0	MS	13-APR-10 07:40	100412-5
	Selenium	50.9	ug/L	50	ug/L	101.8	90.0 – 110.0	MS	13-APR-10 07:40	100412-5
	Thallium	49.9	ug/L	50	ug/L	99.7	90.0 – 110.0	MS	13-APR-10 07:40	100412-5
	Uranium	53.1	ug/L	50	ug/L	106.2	90.0 – 110.0	MS	13-APR-10 07:40	100412-5
CCV06	Mercury	5.06	ug/L	5	ug/L	101.1	80.0 – 120.0	AV	12-MAR-10 11:03	031210S1-6
	Aluminum	4670	ug/L	5000	ug/L	93.4	90.0 – 110.0	P	29-MAR-10 15:02	032910A-1
	Antimony	537	ug/L	500	ug/L	107.5	90.0 – 110.0	P	29-MAR-10 15:02	032910A-1
	Barium	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	29-MAR-10 15:02	032910A-1
	Cadmium	514	ug/L	500	ug/L	102.7	90.0 – 110.0	P	29-MAR-10 15:02	032910A-1
	Calcium	4820	ug/L	5000	ug/L	96.4	90.0 – 110.0	P	29-MAR-10 15:02	032910A-1
	Chromium	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	29-MAR-10 15:02	032910A-1
	Cobalt	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	29-MAR-10 15:02	032910A-1
	Copper	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	29-MAR-10 15:02	032910A-1
	Iron	5030	ug/L	5000	ug/L	100.6	90.0 – 110.0	P	29-MAR-10 15:02	032910A-1
	Lead	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	29-MAR-10 15:02	032910A-1
	Magnesium	5140	ug/L	5000	ug/L	102.8	90.0 – 110.0	P	29-MAR-10 15:02	032910A-1
	Manganese	512	ug/L	500	ug/L	102.5	90.0 – 110.0	P	29-MAR-10 15:02	032910A-1
	Potassium	4950	ug/L	5000	ug/L	99.1	90.0 – 110.0	P	29-MAR-10 15:02	032910A-1
	Silver	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	29-MAR-10 15:02	032910A-1
	Sodium	9460	ug/L	10000	ug/L	94.6	90.0 – 110.0	P	29-MAR-10 15:02	032910A-1
	Vanadium	510	ug/L	500	ug/L	102.1	90.0 – 110.0	P	29-MAR-10 15:02	032910A-1
	Zinc	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	29-MAR-10 15:02	032910A-1
	Arsenic	48.4	ug/L	50	ug/L	96.8	90.0 – 110.0	MS	13-APR-10 02:19	100412-3
	Beryllium	51.9	ug/L	50	ug/L	103.8	90.0 – 110.0	MS	13-APR-10 02:19	100412-3

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Nickel	48.1	ug/L	50	ug/L	96.2	90.0 – 110.0	MS	13-APR-10 02:19	100412-3
	Selenium	48.8	ug/L	50	ug/L	97.6	90.0 – 110.0	MS	13-APR-10 02:19	100412-3
	Thallium	47	ug/L	50	ug/L	94.1	90.0 – 110.0	MS	13-APR-10 02:19	100412-3
	Uranium	48.9	ug/L	50	ug/L	97.8	90.0 – 110.0	MS	13-APR-10 02:19	100412-3
	Arsenic	51.9	ug/L	50	ug/L	103.8	90.0 – 110.0	MS	13-APR-10 08:08	100412-5
	Beryllium	51.5	ug/L	50	ug/L	103.1	90.0 – 110.0	MS	13-APR-10 08:08	100412-5
	Nickel	52.8	ug/L	50	ug/L	105.6	90.0 – 110.0	MS	13-APR-10 08:08	100412-5
	Selenium	51.5	ug/L	50	ug/L	103	90.0 – 110.0	MS	13-APR-10 08:08	100412-5
	Thallium	51.2	ug/L	50	ug/L	102.4	90.0 – 110.0	MS	13-APR-10 08:08	100412-5
	Uranium	54.2	ug/L	50	ug/L	108.4	90.0 – 110.0	MS	13-APR-10 08:08	100412-5
CCV07										
	Mercury	5.02	ug/L	5	ug/L	100.3	80.0 – 120.0	AV	12-MAR-10 11:23	031210S1-6
	Aluminum	4580	ug/L	5000	ug/L	91.6	90.0 – 110.0	P	29-MAR-10 16:17	032910A-1
	Antimony	528	ug/L	500	ug/L	105.5	90.0 – 110.0	P	29-MAR-10 16:17	032910A-1
	Barium	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	29-MAR-10 16:17	032910A-1
	Cadmium	524	ug/L	500	ug/L	104.7	90.0 – 110.0	P	29-MAR-10 16:17	032910A-1
	Calcium	4870	ug/L	5000	ug/L	97.4	90.0 – 110.0	P	29-MAR-10 16:17	032910A-1
	Chromium	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	29-MAR-10 16:17	032910A-1
	Cobalt	522	ug/L	500	ug/L	104.4	90.0 – 110.0	P	29-MAR-10 16:17	032910A-1
	Copper	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	29-MAR-10 16:17	032910A-1
	Iron	5210	ug/L	5000	ug/L	104.2	90.0 – 110.0	P	29-MAR-10 16:17	032910A-1
	Lead	508	ug/L	500	ug/L	101.5	90.0 – 110.0	P	29-MAR-10 16:17	032910A-1
	Magnesium	5130	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	29-MAR-10 16:17	032910A-1
	Manganese	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	29-MAR-10 16:17	032910A-1
	Potassium	4800	ug/L	5000	ug/L	96	90.0 – 110.0	P	29-MAR-10 16:17	032910A-1
	Silver	513	ug/L	500	ug/L	102.7	90.0 – 110.0	P	29-MAR-10 16:17	032910A-1
	Sodium	9600	ug/L	10000	ug/L	96	90.0 – 110.0	P	29-MAR-10 16:17	032910A-1
	Vanadium	516	ug/L	500	ug/L	103.2	90.0 – 110.0	P	29-MAR-10 16:17	032910A-1
	Zinc	518	ug/L	500	ug/L	103.6	90.0 – 110.0	P	29-MAR-10 16:17	032910A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV08										
	Mercury	5.01	ug/L	5	ug/L	100.3	80.0 – 120.0	AV	12-MAR-10 11:44	031210S1-6
	Aluminum	4700	ug/L	5000	ug/L	94	90.0 – 110.0	P	29-MAR-10 17:17	032910A-1
	Antimony	516	ug/L	500	ug/L	103.2	90.0 – 110.0	P	29-MAR-10 17:17	032910A-1
	Barium	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	29-MAR-10 17:17	032910A-1
	Cadmium	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	29-MAR-10 17:17	032910A-1
	Calcium	4870	ug/L	5000	ug/L	97.5	90.0 – 110.0	P	29-MAR-10 17:17	032910A-1
	Chromium	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	29-MAR-10 17:17	032910A-1
	Cobalt	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	29-MAR-10 17:17	032910A-1
	Copper	495	ug/L	500	ug/L	99	90.0 – 110.0	P	29-MAR-10 17:17	032910A-1
	Iron	5210	ug/L	5000	ug/L	104.2	90.0 – 110.0	P	29-MAR-10 17:17	032910A-1
	Lead	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	29-MAR-10 17:17	032910A-1
	Magnesium	5180	ug/L	5000	ug/L	103.7	90.0 – 110.0	P	29-MAR-10 17:17	032910A-1
	Manganese	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	29-MAR-10 17:17	032910A-1
	Potassium	4950	ug/L	5000	ug/L	99	90.0 – 110.0	P	29-MAR-10 17:17	032910A-1
	Silver	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	29-MAR-10 17:17	032910A-1
	Sodium	9970	ug/L	10000	ug/L	99.7	90.0 – 110.0	P	29-MAR-10 17:17	032910A-1
	Vanadium	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	29-MAR-10 17:17	032910A-1
	Zinc	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	29-MAR-10 17:17	032910A-1
CCV09										
	Mercury	5.02	ug/L	5	ug/L	100.4	80.0 – 120.0	AV	12-MAR-10 12:04	031210S1-6
	Aluminum	4510	ug/L	5000	ug/L	90.1	90.0 – 110.0	P	29-MAR-10 17:50	032910A-1
	Antimony	516	ug/L	500	ug/L	103.2	90.0 – 110.0	P	29-MAR-10 17:50	032910A-1
	Barium	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	29-MAR-10 17:50	032910A-1
	Cadmium	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	29-MAR-10 17:50	032910A-1
	Calcium	4710	ug/L	5000	ug/L	94.2	90.0 – 110.0	P	29-MAR-10 17:50	032910A-1
	Chromium	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	29-MAR-10 17:50	032910A-1
	Cobalt	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	29-MAR-10 17:50	032910A-1
	Copper	497	ug/L	500	ug/L	99.3	90.0 – 110.0	P	29-MAR-10 17:50	032910A-1
	Iron	5070	ug/L	5000	ug/L	101.3	90.0 – 110.0	P	29-MAR-10 17:50	032910A-1
	Lead	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	29-MAR-10 17:50	032910A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Magnesium	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	29-MAR-10 17:50	032910A-1
	Manganese	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	29-MAR-10 17:50	032910A-1
	Potassium	4730	ug/L	5000	ug/L	94.7	90.0 – 110.0	P	29-MAR-10 17:50	032910A-1
	Silver	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	29-MAR-10 17:50	032910A-1
	Sodium	9820	ug/L	10000	ug/L	98.3	90.0 – 110.0	P	29-MAR-10 17:50	032910A-1
	Vanadium	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	29-MAR-10 17:50	032910A-1
	Zinc	504	ug/L	500	ug/L	100.7	90.0 – 110.0	P	29-MAR-10 17:50	032910A-1
CCV10										
	Mercury	5.05	ug/L	5	ug/L	101.1	80.0 – 120.0	AV	12-MAR-10 12:24	031210S1-6
	Aluminum	4620	ug/L	5000	ug/L	92.5	90.0 – 110.0	P	29-MAR-10 19:07	032910A-1
	Antimony	512	ug/L	500	ug/L	102.3	90.0 – 110.0	P	29-MAR-10 19:07	032910A-1
	Barium	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	29-MAR-10 19:07	032910A-1
	Cadmium	511	ug/L	500	ug/L	102.1	90.0 – 110.0	P	29-MAR-10 19:07	032910A-1
	Calcium	4790	ug/L	5000	ug/L	95.9	90.0 – 110.0	P	29-MAR-10 19:07	032910A-1
	Chromium	500	ug/L	500	ug/L	100	90.0 – 110.0	P	29-MAR-10 19:07	032910A-1
	Cobalt	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	29-MAR-10 19:07	032910A-1
	Copper	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	29-MAR-10 19:07	032910A-1
	Iron	5130	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	29-MAR-10 19:07	032910A-1
	Lead	494	ug/L	500	ug/L	98.9	90.0 – 110.0	P	29-MAR-10 19:07	032910A-1
	Magnesium	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	29-MAR-10 19:07	032910A-1
	Manganese	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	29-MAR-10 19:07	032910A-1
	Potassium	4870	ug/L	5000	ug/L	97.3	90.0 – 110.0	P	29-MAR-10 19:07	032910A-1
	Silver	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	29-MAR-10 19:07	032910A-1
	Sodium	9980	ug/L	10000	ug/L	99.9	90.0 – 110.0	P	29-MAR-10 19:07	032910A-1
	Vanadium	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	29-MAR-10 19:07	032910A-1
	Zinc	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	29-MAR-10 19:07	032910A-1
CCV11										
	Mercury	5.05	ug/L	5	ug/L	100.9	80.0 – 120.0	AV	12-MAR-10 12:44	031210S1-6
	Aluminum	4500	ug/L	5000	ug/L	90	90.0 – 110.0	P	29-MAR-10 20:23	032910A-1
	Antimony	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	29-MAR-10 20:23	032910A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Barium	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	29-MAR-10 20:23	032910A-1
	Cadmium	508	ug/L	500	ug/L	101.5	90.0 – 110.0	P	29-MAR-10 20:23	032910A-1
	Calcium	4580	ug/L	5000	ug/L	91.7	90.0 – 110.0	P	29-MAR-10 20:23	032910A-1
	Chromium	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	29-MAR-10 20:23	032910A-1
	Cobalt	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	29-MAR-10 20:23	032910A-1
	Copper	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	29-MAR-10 20:23	032910A-1
	Iron	4890	ug/L	5000	ug/L	97.7	90.0 – 110.0	P	29-MAR-10 20:23	032910A-1
	Lead	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	29-MAR-10 20:23	032910A-1
	Magnesium	4910	ug/L	5000	ug/L	98.2	90.0 – 110.0	P	29-MAR-10 20:23	032910A-1
	Manganese	498	ug/L	500	ug/L	99.5	90.0 – 110.0	P	29-MAR-10 20:23	032910A-1
	Potassium	4650	ug/L	5000	ug/L	92.9	90.0 – 110.0	P	29-MAR-10 20:23	032910A-1
	Silver	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	29-MAR-10 20:23	032910A-1
	Sodium	9730	ug/L	10000	ug/L	97.3	90.0 – 110.0	P	29-MAR-10 20:23	032910A-1
	Vanadium	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	29-MAR-10 20:23	032910A-1
	Zinc	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	29-MAR-10 20:23	032910A-1
CCV12	Mercury	5.05	ug/L	5	ug/L	100.9	80.0 – 120.0	AV	12-MAR-10 13:05	031210S1-6
	Aluminum	4610	ug/L	5000	ug/L	92.1	90.0 – 110.0	P	29-MAR-10 21:33	032910A-1
	Antimony	515	ug/L	500	ug/L	102.9	90.0 – 110.0	P	29-MAR-10 21:33	032910A-1
	Barium	505	ug/L	500	ug/L	101	90.0 – 110.0	P	29-MAR-10 21:33	032910A-1
	Cadmium	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	29-MAR-10 21:33	032910A-1
	Calcium	4760	ug/L	5000	ug/L	95.2	90.0 – 110.0	P	29-MAR-10 21:33	032910A-1
	Chromium	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	29-MAR-10 21:33	032910A-1
	Cobalt	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	29-MAR-10 21:33	032910A-1
	Copper	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	29-MAR-10 21:33	032910A-1
	Iron	5130	ug/L	5000	ug/L	102.5	90.0 – 110.0	P	29-MAR-10 21:33	032910A-1
	Lead	498	ug/L	500	ug/L	99.5	90.0 – 110.0	P	29-MAR-10 21:33	032910A-1
	Magnesium	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	29-MAR-10 21:33	032910A-1
	Manganese	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	29-MAR-10 21:33	032910A-1
	Potassium	4770	ug/L	5000	ug/L	95.4	90.0 – 110.0	P	29-MAR-10 21:33	032910A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Silver	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	29-MAR-10 21:33	032910A-1
	Sodium	10500	ug/L	10000	ug/L	104.6	90.0 – 110.0	P	29-MAR-10 21:33	032910A-1
	Vanadium	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	29-MAR-10 21:33	032910A-1
	Zinc	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	29-MAR-10 21:33	032910A-1
CCV13										
	Mercury	5.14	ug/L	5	ug/L	102.7	80.0 – 120.0	AV	12-MAR-10 13:25	031210S1-6
	Aluminum	4440	ug/L	5000	ug/L	88.8	90.0 – 110.0	P	29-MAR-10 22:43	032910A-1
	Antimony	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	29-MAR-10 22:43	032910A-1
	Barium	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	29-MAR-10 22:43	032910A-1
	Cadmium	498	ug/L	500	ug/L	99.5	90.0 – 110.0	P	29-MAR-10 22:43	032910A-1
	Calcium	4490	ug/L	5000	ug/L	89.8	90.0 – 110.0	P	29-MAR-10 22:43	032910A-1
	Chromium	492	ug/L	500	ug/L	98.3	90.0 – 110.0	P	29-MAR-10 22:43	032910A-1
	Cobalt	497	ug/L	500	ug/L	99.3	90.0 – 110.0	P	29-MAR-10 22:43	032910A-1
	Copper	490	ug/L	500	ug/L	97.9	90.0 – 110.0	P	29-MAR-10 22:43	032910A-1
	Iron	4720	ug/L	5000	ug/L	94.5	90.0 – 110.0	P	29-MAR-10 22:43	032910A-1
	Lead	493	ug/L	500	ug/L	98.5	90.0 – 110.0	P	29-MAR-10 22:43	032910A-1
	Magnesium	4800	ug/L	5000	ug/L	96.1	90.0 – 110.0	P	29-MAR-10 22:43	032910A-1
	Manganese	505	ug/L	500	ug/L	101	90.0 – 110.0	P	29-MAR-10 22:43	032910A-1
	Potassium	4540	ug/L	5000	ug/L	90.7	90.0 – 110.0	P	29-MAR-10 22:43	032910A-1
	Silver	497	ug/L	500	ug/L	99.5	90.0 – 110.0	P	29-MAR-10 22:43	032910A-1
	Sodium	9550	ug/L	10000	ug/L	95.5	90.0 – 110.0	P	29-MAR-10 22:43	032910A-1
	Vanadium	499	ug/L	500	ug/L	99.9	90.0 – 110.0	P	29-MAR-10 22:43	032910A-1
	Zinc	494	ug/L	500	ug/L	98.7	90.0 – 110.0	P	29-MAR-10 22:43	032910A-1
CCV14										
	Mercury	5.09	ug/L	5	ug/L	101.8	80.0 – 120.0	AV	12-MAR-10 13:46	031210S1-6
	Aluminum	4570	ug/L	5000	ug/L	91.3	90.0 – 110.0	P	30-MAR-10 00:00	032910A-1
	Antimony	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	30-MAR-10 00:00	032910A-1
	Barium	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	30-MAR-10 00:00	032910A-1
	Cadmium	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	30-MAR-10 00:00	032910A-1
	Calcium	4720	ug/L	5000	ug/L	94.5	90.0 – 110.0	P	30-MAR-10 00:00	032910A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Chromium	500	ug/L	500	ug/L	100	90.0 – 110.0	P	30-MAR-10 00:00	032910A-1
	Cobalt	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	30-MAR-10 00:00	032910A-1
	Copper	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	30-MAR-10 00:00	032910A-1
	Iron	4950	ug/L	5000	ug/L	99	90.0 – 110.0	P	30-MAR-10 00:00	032910A-1
	Lead	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	30-MAR-10 00:00	032910A-1
	Magnesium	5030	ug/L	5000	ug/L	100.7	90.0 – 110.0	P	30-MAR-10 00:00	032910A-1
	Manganese	497	ug/L	500	ug/L	99.3	90.0 – 110.0	P	30-MAR-10 00:00	032910A-1
	Potassium	4730	ug/L	5000	ug/L	94.5	90.0 – 110.0	P	30-MAR-10 00:00	032910A-1
	Silver	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	30-MAR-10 00:00	032910A-1
	Sodium	9890	ug/L	10000	ug/L	98.9	90.0 – 110.0	P	30-MAR-10 00:00	032910A-1
	Vanadium	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	30-MAR-10 00:00	032910A-1
	Zinc	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	30-MAR-10 00:00	032910A-1
CCV15										
	Mercury	5.06	ug/L	5	ug/L	101.2	80.0 – 120.0	AV	12-MAR-10 13:51	031210S1-6
	Aluminum	4630	ug/L	5000	ug/L	92.7	90.0 – 110.0	P	30-MAR-10 01:18	032910A-1
	Antimony	510	ug/L	500	ug/L	102	90.0 – 110.0	P	30-MAR-10 01:18	032910A-1
	Barium	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	30-MAR-10 01:18	032910A-1
	Cadmium	510	ug/L	500	ug/L	102	90.0 – 110.0	P	30-MAR-10 01:18	032910A-1
	Calcium	4670	ug/L	5000	ug/L	93.4	90.0 – 110.0	P	30-MAR-10 01:18	032910A-1
	Chromium	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	30-MAR-10 01:18	032910A-1
	Cobalt	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	30-MAR-10 01:18	032910A-1
	Copper	495	ug/L	500	ug/L	99	90.0 – 110.0	P	30-MAR-10 01:18	032910A-1
	Iron	4740	ug/L	5000	ug/L	94.8	90.0 – 110.0	P	30-MAR-10 01:18	032910A-1
	Lead	499	ug/L	500	ug/L	99.7	90.0 – 110.0	P	30-MAR-10 01:18	032910A-1
	Magnesium	4970	ug/L	5000	ug/L	99.4	90.0 – 110.0	P	30-MAR-10 01:18	032910A-1
	Manganese	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	30-MAR-10 01:18	032910A-1
	Potassium	4730	ug/L	5000	ug/L	94.6	90.0 – 110.0	P	30-MAR-10 01:18	032910A-1
	Silver	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	30-MAR-10 01:18	032910A-1
	Sodium	9060	ug/L	10000	ug/L	90.6	90.0 – 110.0	P	30-MAR-10 01:18	032910A-1
	Vanadium	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	30-MAR-10 01:18	032910A-1

SW846

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,JCPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV16	Zinc	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	30-MAR-10 01:18	032910A-1
	Mercury	4.87	ug/L	5	ug/L	97.3	80.0 – 120.0	AV	12-MAR-10 14:08	031210S1-6
	Aluminum	4520	ug/L	5000	ug/L	90.4	90.0 – 110.0	P	30-MAR-10 02:35	032910A-1
	Antimony	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	30-MAR-10 02:35	032910A-1
	Barium	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	30-MAR-10 02:35	032910A-1
	Cadmium	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	30-MAR-10 02:35	032910A-1
	Calcium	4580	ug/L	5000	ug/L	91.6	90.0 – 110.0	P	30-MAR-10 02:35	032910A-1
	Chromium	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	30-MAR-10 02:35	032910A-1
	Cobalt	510	ug/L	500	ug/L	102.1	90.0 – 110.0	P	30-MAR-10 02:35	032910A-1
	Copper	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	30-MAR-10 02:35	032910A-1
	Iron	4680	ug/L	5000	ug/L	93.7	90.0 – 110.0	P	30-MAR-10 02:35	032910A-1
	Lead	505	ug/L	500	ug/L	101	90.0 – 110.0	P	30-MAR-10 02:35	032910A-1
	Magnesium	4810	ug/L	5000	ug/L	96.2	90.0 – 110.0	P	30-MAR-10 02:35	032910A-1
	Manganese	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	30-MAR-10 02:35	032910A-1
	Potassium	4620	ug/L	5000	ug/L	92.5	90.0 – 110.0	P	30-MAR-10 02:35	032910A-1
	Silver	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	30-MAR-10 02:35	032910A-1
	Sodium	9520	ug/L	10000	ug/L	95.2	90.0 – 110.0	P	30-MAR-10 02:35	032910A-1
	Vanadium	516	ug/L	500	ug/L	103.3	90.0 – 110.0	P	30-MAR-10 02:35	032910A-1
	Zinc	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	30-MAR-10 02:35	032910A-1
CCV17	Aluminum	4900	ug/L	5000	ug/L	98.1	90.0 – 110.0	P	30-MAR-10 03:54	032910A-1
	Antimony	518	ug/L	500	ug/L	103.6	90.0 – 110.0	P	30-MAR-10 03:54	032910A-1
	Barium	515	ug/L	500	ug/L	103	90.0 – 110.0	P	30-MAR-10 03:54	032910A-1
	Cadmium	517	ug/L	500	ug/L	103.5	90.0 – 110.0	P	30-MAR-10 03:54	032910A-1
	Calcium	4880	ug/L	5000	ug/L	97.6	90.0 – 110.0	P	30-MAR-10 03:54	032910A-1
	Chromium	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	30-MAR-10 03:54	032910A-1
	Cobalt	516	ug/L	500	ug/L	103.2	90.0 – 110.0	P	30-MAR-10 03:54	032910A-1
	Copper	511	ug/L	500	ug/L	102.1	90.0 – 110.0	P	30-MAR-10 03:54	032910A-1
	Iron	5050	ug/L	5000	ug/L	100.9	90.0 – 110.0	P	30-MAR-10 03:54	032910A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,JCPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Lead	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	30-MAR-10 03:54	032910A-1
	Magnesium	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	30-MAR-10 03:54	032910A-1
	Manganese	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	30-MAR-10 03:54	032910A-1
	Potassium	5070	ug/L	5000	ug/L	101.3	90.0 – 110.0	P	30-MAR-10 03:54	032910A-1
	Silver	518	ug/L	500	ug/L	103.6	90.0 – 110.0	P	30-MAR-10 03:54	032910A-1
	Sodium	10300	ug/L	10000	ug/L	103.3	90.0 – 110.0	P	30-MAR-10 03:54	032910A-1
	Vanadium	522	ug/L	500	ug/L	104.3	90.0 – 110.0	P	30-MAR-10 03:54	032910A-1
	Zinc	514	ug/L	500	ug/L	102.7	90.0 – 110.0	P	30-MAR-10 03:54	032910A-1

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: HG3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01										
	Mercury	.154	ug/L	.2	ug/L	77	70.0 – 130.0	AV	12-MAR-10 09:21	031210S1-6
	Arsenic	5.82	ug/L	5	ug/L	116.3	70.0 – 130.0	MS	12-APR-10 23:06	100412-3
	Beryllium	.511	ug/L	.5	ug/L	102.2	70.0 – 130.0	MS	12-APR-10 23:06	100412-3
	Selenium	5.92	ug/L	5	ug/L	118.4	70.0 – 130.0	MS	12-APR-10 23:06	100412-3
	Uranium	.246	ug/L	.2	ug/L	123	70.0 – 130.0	MS	12-APR-10 23:06	100412-3
	Thallium	1.15	ug/L	1	ug/L	115.3	70.0 – 130.0	MS	12-APR-10 23:06	100412-3
	Nickel	2.3	ug/L	2	ug/L	114.8	70.0 – 130.0	MS	12-APR-10 23:06	100412-3
	Nickel	2.27	ug/L	2	ug/L	113.7	70.0 – 130.0	MS	13-APR-10 04:55	100412-5
	Thallium	1.26	ug/L	1	ug/L	125.5	70.0 – 130.0	MS	13-APR-10 04:55	100412-5
	Arsenic	6	ug/L	5	ug/L	119.9	70.0 – 130.0	MS	13-APR-10 04:55	100412-5
	Beryllium	.556	ug/L	.5	ug/L	111.2	70.0 – 130.0	MS	13-APR-10 04:55	100412-5
	Selenium	5.52	ug/L	5	ug/L	110.4	70.0 – 130.0	MS	13-APR-10 04:55	100412-5
	Uranium	.249	ug/L	.2	ug/L	124.5	70.0 – 130.0	MS	13-APR-10 04:55	100412-5
PQL01										
	Aluminum	203	ug/L	200	ug/L	101.7	70.0 – 130.0	P	29-MAR-10 10:00	032910A-1
	Iron	117	ug/L	100	ug/L	116.9	70.0 – 130.0	P	29-MAR-10 10:00	032910A-1
	Lead	13.7	ug/L	10	ug/L	137.2	70.0 – 130.0	P	29-MAR-10 10:00	032910A-1
	Magnesium	355	ug/L	300	ug/L	118.4	70.0 – 130.0	P	29-MAR-10 10:00	032910A-1
	Manganese	12.5	ug/L	10	ug/L	125.4	70.0 – 130.0	P	29-MAR-10 10:00	032910A-1
	Potassium	123	ug/L	150	ug/L	81.7	70.0 – 130.0	P	29-MAR-10 10:00	032910A-1
	Silver	5.83	ug/L	5	ug/L	116.5	70.0 – 130.0	P	29-MAR-10 10:00	032910A-1
	Sodium	284	ug/L	300	ug/L	94.6	70.0 – 130.0	P	29-MAR-10 10:00	032910A-1
	Antimony	10.7	ug/L	10	ug/L	107.1	70.0 – 130.0	P	29-MAR-10 10:00	032910A-1
	Barium	6.51	ug/L	5	ug/L	130.1	70.0 – 130.0	P	29-MAR-10 10:00	032910A-1
	Cadmium	6.01	ug/L	5	ug/L	120.3	70.0 – 130.0	P	29-MAR-10 10:00	032910A-1
	Chromium	5.88	ug/L	5	ug/L	117.7	70.0 – 130.0	P	29-MAR-10 10:00	032910A-1
	Cobalt	5.84	ug/L	5	ug/L	116.7	70.0 – 130.0	P	29-MAR-10 10:00	032910A-1
	Copper	12.2	ug/L	10	ug/L	122.2	70.0 – 130.0	P	29-MAR-10 10:00	032910A-1
	Vanadium	5.99	ug/L	5	ug/L	119.8	70.0 – 130.0	P	29-MAR-10 10:00	032910A-1
	Zinc	11.4	ug/L	10	ug/L	114	70.0 – 130.0	P	29-MAR-10 10:00	032910A-1

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source:

ICP CRDL Standard Source

Instrument ID: HG3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Calcium	185	ug/L	200	ug/L	92.5	70.0 – 130.0	P	29-MAR-10 10:00	032910A-1
	Antimony	10.2	ug/L	10	ug/L	101.5	70.0 – 130.0	P	05-APR-10 08:30	040510-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122

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>
ICB01	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 09:19	031210S1-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-MAR-10 09:53	032910A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	29-MAR-10 09:53	032910A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 09:53	032910A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 09:53	032910A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 09:53	032910A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 09:53	032910A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 09:53	032910A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	29-MAR-10 09:53	032910A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 09:53	032910A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	29-MAR-10 09:53	032910A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-MAR-10 09:53	032910A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-MAR-10 09:53	032910A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	29-MAR-10 09:53	032910A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 09:53	032910A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	29-MAR-10 09:53	032910A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 09:53	032910A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	29-MAR-10 09:53	032910A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	05-APR-10 08:22	040510-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	12-APR-10 23:02	100412-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	12-APR-10 23:02	100412-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	12-APR-10 23:02	100412-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	12-APR-10 23:02	100412-3
	Thallium	0.351	+/-1	J	0.3	1.0	SOL	MS	12-APR-10 23:02	100412-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	12-APR-10 23:02	100412-3
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 04:51	100412-5
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 04:51	100412-5
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 04:51	100412-5
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 04:51	100412-5
	Thallium	0.335	+/-1	J	0.3	1.0	SOL	MS	13-APR-10 04:51	100412-5
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 04:51	100412-5

SW846

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122

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>
CCB01	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 09:24	031210S1-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-MAR-10 10:41	032910A-1
	Antimony	3.49	+/-10	J	3.3	10.0	SOL	P	29-MAR-10 10:41	032910A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 10:41	032910A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 10:41	032910A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 10:41	032910A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 10:41	032910A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 10:41	032910A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	29-MAR-10 10:41	032910A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 10:41	032910A-1
	Lead	2.5	+/-10	J	2.5	10.0	SOL	P	29-MAR-10 10:41	032910A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-MAR-10 10:41	032910A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-MAR-10 10:41	032910A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	29-MAR-10 10:41	032910A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 10:41	032910A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	29-MAR-10 10:41	032910A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 10:41	032910A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	29-MAR-10 10:41	032910A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	05-APR-10 09:11	040510-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	12-APR-10 23:23	100412-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	12-APR-10 23:23	100412-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	12-APR-10 23:23	100412-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	12-APR-10 23:23	100412-3
	Thallium	0.39	+/-1	J	0.3	1.0	SOL	MS	12-APR-10 23:23	100412-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	12-APR-10 23:23	100412-3
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 05:12	100412-5
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 05:12	100412-5
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 05:12	100412-5
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 05:12	100412-5
	Thallium	0.512	+/-1	J	0.3	1.0	SOL	MS	13-APR-10 05:12	100412-5
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 05:12	100412-5

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122

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>
CCB02	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 09:44	031210S1-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-MAR-10 11:07	032910A-1
	Antimony	-4.02	+/-10	J	3.3	10.0	SOL	P	29-MAR-10 11:07	032910A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 11:07	032910A-1
	Cadmium	1.08	+/-5	J	1.0	5.0	SOL	P	29-MAR-10 11:07	032910A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 11:07	032910A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 11:07	032910A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 11:07	032910A-1
	Copper	-4.75	+/-10	J	3.0	10.0	SOL	P	29-MAR-10 11:07	032910A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 11:07	032910A-1
	Lead	3.74	+/-10	J	2.5	10.0	SOL	P	29-MAR-10 11:07	032910A-1
	Magnesium	85.08	+/-300	J	85.0	300	SOL	P	29-MAR-10 11:07	032910A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-MAR-10 11:07	032910A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	29-MAR-10 11:07	032910A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 11:07	032910A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	29-MAR-10 11:07	032910A-1
	Vanadium	3.53	+/-5	J	1.0	5.0	SOL	P	29-MAR-10 11:07	032910A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	29-MAR-10 11:07	032910A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	05-APR-10 09:40	040510-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 00:04	100412-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 00:04	100412-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 00:04	100412-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 00:04	100412-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 00:04	100412-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 00:04	100412-3
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 05:53	100412-5
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 05:53	100412-5
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 05:53	100412-5
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 05:53	100412-5
	Thallium	0.417	+/-1	J	0.3	1.0	SOL	MS	13-APR-10 05:53	100412-5
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 05:53	100412-5

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Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122

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>
CCB03	Mercury	0.068	+/- .2	U	0.068	0.2	SOL	AV	12-MAR-10 10:04	031210S1-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-MAR-10 12:08	032910A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	29-MAR-10 12:08	032910A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 12:08	032910A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 12:08	032910A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 12:08	032910A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 12:08	032910A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 12:08	032910A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	29-MAR-10 12:08	032910A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 12:08	032910A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	29-MAR-10 12:08	032910A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-MAR-10 12:08	032910A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-MAR-10 12:08	032910A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	29-MAR-10 12:08	032910A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 12:08	032910A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	29-MAR-10 12:08	032910A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 12:08	032910A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	29-MAR-10 12:08	032910A-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 00:45	100412-3
	Beryllium	0.1	+/- .5	U	0.1	0.5	SOL	MS	13-APR-10 00:45	100412-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 00:45	100412-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 00:45	100412-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 00:45	100412-3
	Uranium	0.066	+/- .2	U	0.066	0.2	SOL	MS	13-APR-10 00:45	100412-3
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 06:34	100412-5
	Beryllium	0.1	+/- .5	U	0.1	0.5	SOL	MS	13-APR-10 06:34	100412-5
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 06:34	100412-5
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 06:34	100412-5
	Thallium	0.356	+/-1	J	0.3	1.0	SOL	MS	13-APR-10 06:34	100412-5
	Uranium	0.066	+/- .2	U	0.066	0.2	SOL	MS	13-APR-10 06:34	100412-5

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122

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>
CCB04	Mercury	0.068	+/- .2	U	0.068	0.2	SOL	AV	12-MAR-10 10:25	031210S1-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-MAR-10 13:10	032910A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	29-MAR-10 13:10	032910A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 13:10	032910A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 13:10	032910A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 13:10	032910A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 13:10	032910A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 13:10	032910A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	29-MAR-10 13:10	032910A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 13:10	032910A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	29-MAR-10 13:10	032910A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-MAR-10 13:10	032910A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-MAR-10 13:10	032910A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	29-MAR-10 13:10	032910A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 13:10	032910A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	29-MAR-10 13:10	032910A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 13:10	032910A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	29-MAR-10 13:10	032910A-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 01:22	100412-3
	Beryllium	0.109	+/- .5	J	0.1	0.5	SOL	MS	13-APR-10 01:22	100412-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 01:22	100412-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 01:22	100412-3
	Thallium	0.81	+/-1	J	0.3	1.0	SOL	MS	13-APR-10 01:22	100412-3
	Uranium	0.094	+/- .2	J	0.066	0.2	SOL	MS	13-APR-10 01:22	100412-3
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 07:11	100412-5
	Beryllium	0.1	+/- .5	U	0.1	0.5	SOL	MS	13-APR-10 07:11	100412-5
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 07:11	100412-5
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 07:11	100412-5
	Thallium	0.416	+/-1	J	0.3	1.0	SOL	MS	13-APR-10 07:11	100412-5
	Uranium	0.066	+/- .2	U	0.066	0.2	SOL	MS	13-APR-10 07:11	100412-5

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122

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>
CCB05	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 10:45	031210SI-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-MAR-10 14:19	032910A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	29-MAR-10 14:19	032910A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 14:19	032910A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 14:19	032910A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 14:19	032910A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 14:19	032910A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 14:19	032910A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	29-MAR-10 14:19	032910A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 14:19	032910A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	29-MAR-10 14:19	032910A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-MAR-10 14:19	032910A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-MAR-10 14:19	032910A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	29-MAR-10 14:19	032910A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 14:19	032910A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	29-MAR-10 14:19	032910A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 14:19	032910A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	29-MAR-10 14:19	032910A-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 01:55	100412-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 01:55	100412-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 01:55	100412-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 01:55	100412-3
	Thallium	0.757	+/-1	J	0.3	1.0	SOL	MS	13-APR-10 01:55	100412-3
	Uranium	0.085	+/-2	J	0.066	0.2	SOL	MS	13-APR-10 01:55	100412-3
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 07:44	100412-5
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 07:44	100412-5
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 07:44	100412-5
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 07:44	100412-5
	Thallium	0.375	+/-1	J	0.3	1.0	SOL	MS	13-APR-10 07:44	100412-5
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 07:44	100412-5

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122

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>
CCB06	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 11:05	031210S1-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-MAR-10 15:09	032910A-1
	Antimony	-3.88	+/-10	J	3.3	10.0	SOL	P	29-MAR-10 15:09	032910A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 15:09	032910A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 15:09	032910A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 15:09	032910A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 15:09	032910A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 15:09	032910A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	29-MAR-10 15:09	032910A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 15:09	032910A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	29-MAR-10 15:09	032910A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-MAR-10 15:09	032910A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-MAR-10 15:09	032910A-1
	Potassium	-95.49	+/-250	J	64.0	250	SOL	P	29-MAR-10 15:09	032910A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 15:09	032910A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	29-MAR-10 15:09	032910A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 15:09	032910A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	29-MAR-10 15:09	032910A-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 02:23	100412-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 02:23	100412-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 02:23	100412-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 02:23	100412-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-APR-10 02:23	100412-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 02:23	100412-3
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	13-APR-10 08:13	100412-5
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	13-APR-10 08:13	100412-5
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	13-APR-10 08:13	100412-5
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	13-APR-10 08:13	100412-5
	Thallium	0.365	+/-1	J	0.3	1.0	SOL	MS	13-APR-10 08:13	100412-5
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-APR-10 08:13	100412-5

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122

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>
CCB07										
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 11:25	031210S1-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-MAR-10 16:24	032910A-1
	Antimony	-5.87	+/-10	J	3.3	10.0	SOL	P	29-MAR-10 16:24	032910A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 16:24	032910A-1
	Cadmium	1.18	+/-5	J	1.0	5.0	SOL	P	29-MAR-10 16:24	032910A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 16:24	032910A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 16:24	032910A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 16:24	032910A-1
	Copper	-6.16	+/-10	J	3.0	10.0	SOL	P	29-MAR-10 16:24	032910A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 16:24	032910A-1
	Lead	4.12	+/-10	J	2.5	10.0	SOL	P	29-MAR-10 16:24	032910A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-MAR-10 16:24	032910A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-MAR-10 16:24	032910A-1
	Potassium	-153.55	+/-250	J	64.0	250	SOL	P	29-MAR-10 16:24	032910A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 16:24	032910A-1
	Sodium	94.38	+/-250	J	70.0	250	SOL	P	29-MAR-10 16:24	032910A-1
	Vanadium	4.58	+/-5	J	1.0	5.0	SOL	P	29-MAR-10 16:24	032910A-1
	Zinc	-3.94	+/-10	J	3.3	10.0	SOL	P	29-MAR-10 16:24	032910A-1
CCB08										
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 11:45	031210S1-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-MAR-10 17:24	032910A-1
	Antimony	-5.62	+/-10	J	3.3	10.0	SOL	P	29-MAR-10 17:24	032910A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 17:24	032910A-1
	Cadmium	1.14	+/-5	J	1.0	5.0	SOL	P	29-MAR-10 17:24	032910A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 17:24	032910A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 17:24	032910A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 17:24	032910A-1
	Copper	-6.05	+/-10	J	3.0	10.0	SOL	P	29-MAR-10 17:24	032910A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 17:24	032910A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	29-MAR-10 17:24	032910A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-MAR-10 17:24	032910A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122

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	29-MAR-10 17:24	032910A-1
	Potassium	-137.99	+/-250	J	64.0	250	SOL	P	29-MAR-10 17:24	032910A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 17:24	032910A-1
	Sodium	79.37	+/-250	J	70.0	250	SOL	P	29-MAR-10 17:24	032910A-1
	Vanadium	4.59	+/-5	J	1.0	5.0	SOL	P	29-MAR-10 17:24	032910A-1
	Zinc	-3.76	+/-10	J	3.3	10.0	SOL	P	29-MAR-10 17:24	032910A-1
CCB09	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 12:05	031210S1-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-MAR-10 17:57	032910A-1
	Antimony	-6.62	+/-10	J	3.3	10.0	SOL	P	29-MAR-10 17:57	032910A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 17:57	032910A-1
	Cadmium	1.09	+/-5	J	1.0	5.0	SOL	P	29-MAR-10 17:57	032910A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 17:57	032910A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 17:57	032910A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 17:57	032910A-1
	Copper	-6.12	+/-10	J	3.0	10.0	SOL	P	29-MAR-10 17:57	032910A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 17:57	032910A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	29-MAR-10 17:57	032910A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-MAR-10 17:57	032910A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-MAR-10 17:57	032910A-1
	Potassium	-137.08	+/-250	J	64.0	250	SOL	P	29-MAR-10 17:57	032910A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 17:57	032910A-1
	Sodium	72.19	+/-250	J	70.0	250	SOL	P	29-MAR-10 17:57	032910A-1
	Vanadium	4.46	+/-5	J	1.0	5.0	SOL	P	29-MAR-10 17:57	032910A-1
	Zinc	-3.64	+/-10	J	3.3	10.0	SOL	P	29-MAR-10 17:57	032910A-1
CCB10	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 12:26	031210S1-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-MAR-10 19:14	032910A-1
	Antimony	-5.92	+/-10	J	3.3	10.0	SOL	P	29-MAR-10 19:14	032910A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 19:14	032910A-1
	Cadmium	1.08	+/-5	J	1.0	5.0	SOL	P	29-MAR-10 19:14	032910A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 19:14	032910A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 19:14	032910A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 19:14	032910A-1
	Copper	-6.27	+/-10	J	3.0	10.0	SOL	P	29-MAR-10 19:14	032910A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 19:14	032910A-1
	Lead	3.35	+/-10	J	2.5	10.0	SOL	P	29-MAR-10 19:14	032910A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-MAR-10 19:14	032910A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-MAR-10 19:14	032910A-1
	Potassium	-104.24	+/-250	J	64.0	250	SOL	P	29-MAR-10 19:14	032910A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 19:14	032910A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	29-MAR-10 19:14	032910A-1
	Vanadium	4.53	+/-5	J	1.0	5.0	SOL	P	29-MAR-10 19:14	032910A-1
	Zinc	-3.49	+/-10	J	3.3	10.0	SOL	P	29-MAR-10 19:14	032910A-1
CCB11	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 12:46	031210S1-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-MAR-10 20:30	032910A-1
	Antimony	-5.76	+/-10	J	3.3	10.0	SOL	P	29-MAR-10 20:30	032910A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 20:30	032910A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 20:30	032910A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 20:30	032910A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 20:30	032910A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 20:30	032910A-1
	Copper	-5.87	+/-10	J	3.0	10.0	SOL	P	29-MAR-10 20:30	032910A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 20:30	032910A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	29-MAR-10 20:30	032910A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-MAR-10 20:30	032910A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-MAR-10 20:30	032910A-1
	Potassium	-128.18	+/-250	J	64.0	250	SOL	P	29-MAR-10 20:30	032910A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 20:30	032910A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	29-MAR-10 20:30	032910A-1
	Vanadium	4.53	+/-5	J	1.0	5.0	SOL	P	29-MAR-10 20:30	032910A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB12	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	29-MAR-10 20:30	032910A-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 13:06	031210S1-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-MAR-10 21:40	032910A-1
	Antimony	-7.48	+/-10	J	3.3	10.0	SOL	P	29-MAR-10 21:40	032910A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 21:40	032910A-1
	Cadmium	1.24	+/-5	J	1.0	5.0	SOL	P	29-MAR-10 21:40	032910A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 21:40	032910A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 21:40	032910A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 21:40	032910A-1
	Copper	-6.36	+/-10	J	3.0	10.0	SOL	P	29-MAR-10 21:40	032910A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 21:40	032910A-1
	Lead	4.11	+/-10	J	2.5	10.0	SOL	P	29-MAR-10 21:40	032910A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-MAR-10 21:40	032910A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-MAR-10 21:40	032910A-1
	Potassium	-133.59	+/-250	J	64.0	250	SOL	P	29-MAR-10 21:40	032910A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 21:40	032910A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	29-MAR-10 21:40	032910A-1
	Vanadium	4.99	+/-5	J	1.0	5.0	SOL	P	29-MAR-10 21:40	032910A-1
	Zinc	-3.58	+/-10	J	3.3	10.0	SOL	P	29-MAR-10 21:40	032910A-1
CCB13	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 13:27	031210S1-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	29-MAR-10 22:50	032910A-1
	Antimony	-6.62	+/-10	J	3.3	10.0	SOL	P	29-MAR-10 22:50	032910A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 22:50	032910A-1
	Cadmium	1.01	+/-5	J	1.0	5.0	SOL	P	29-MAR-10 22:50	032910A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 22:50	032910A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 22:50	032910A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	29-MAR-10 22:50	032910A-1
	Copper	-6.37	+/-10	J	3.0	10.0	SOL	P	29-MAR-10 22:50	032910A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	29-MAR-10 22:50	032910A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122

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	2.89	+/-10	J	2.5	10.0	SOL	P	29-MAR-10 22:50	032910A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	29-MAR-10 22:50	032910A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	29-MAR-10 22:50	032910A-1
	Potassium	-136.23	+/-250	J	64.0	250	SOL	P	29-MAR-10 22:50	032910A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	29-MAR-10 22:50	032910A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	29-MAR-10 22:50	032910A-1
	Vanadium	4.83	+/-5	J	1.0	5.0	SOL	P	29-MAR-10 22:50	032910A-1
	Zinc	-3.36	+/-10	J	3.3	10.0	SOL	P	29-MAR-10 22:50	032910A-1
CCB14	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 13:47	031210S1-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 00:07	032910A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 00:07	032910A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 00:07	032910A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 00:07	032910A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 00:07	032910A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 00:07	032910A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 00:07	032910A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	30-MAR-10 00:07	032910A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 00:07	032910A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 00:07	032910A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 00:07	032910A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 00:07	032910A-1
	Potassium	-131.83	+/-250	J	64.0	250	SOL	P	30-MAR-10 00:07	032910A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 00:07	032910A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 00:07	032910A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 00:07	032910A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	30-MAR-10 00:07	032910A-1
CCB15	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 13:53	031210S1-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 01:25	032910A-1
	Antimony	-9.01	+/-10	J	3.3	10.0	SOL	P	30-MAR-10 01:25	032910A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 01:25	032910A-1
	Cadmium	1.07	+/-5	J	1.0	5.0	SOL	P	30-MAR-10 01:25	032910A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 01:25	032910A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 01:25	032910A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 01:25	032910A-1
	Copper	-6.52	+/-10	J	3.0	10.0	SOL	P	30-MAR-10 01:25	032910A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 01:25	032910A-1
	Lead	3.08	+/-10	J	2.5	10.0	SOL	P	30-MAR-10 01:25	032910A-1
	Magnesium	135.63	+/-300	J	85.0	300	SOL	P	30-MAR-10 01:25	032910A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 01:25	032910A-1
	Potassium	-95.47	+/-250	J	64.0	250	SOL	P	30-MAR-10 01:25	032910A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 01:25	032910A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 01:25	032910A-1
	Vanadium	5.01	+/-5		1.0	5.0	SOL	P	30-MAR-10 01:25	032910A-1
	Zinc	-3.33	+/-10	J	3.3	10.0	SOL	P	30-MAR-10 01:25	032910A-1
CCB16	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	12-MAR-10 14:10	031210S1-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 02:42	032910A-1
	Antimony	-6.81	+/-10	J	3.3	10.0	SOL	P	30-MAR-10 02:42	032910A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 02:42	032910A-1
	Cadmium	1.31	+/-5	J	1.0	5.0	SOL	P	30-MAR-10 02:42	032910A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 02:42	032910A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 02:42	032910A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 02:42	032910A-1
	Copper	-6.74	+/-10	J	3.0	10.0	SOL	P	30-MAR-10 02:42	032910A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 02:42	032910A-1
	Lead	3.17	+/-10	J	2.5	10.0	SOL	P	30-MAR-10 02:42	032910A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 02:42	032910A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 02:42	032910A-1
	Potassium	-114.66	+/-250	J	64.0	250	SOL	P	30-MAR-10 02:42	032910A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 02:42	032910A-1

SW846

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB17	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 02:42	032910A-1
	Vanadium	5.26	+/-5		1.0	5.0	SOL	P	30-MAR-10 02:42	032910A-1
	Zinc	-3.55	+/-10	J	3.3	10.0	SOL	P	30-MAR-10 02:42	032910A-1
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	30-MAR-10 04:01	032910A-1
	Antimony	-4.11	+/-10	J	3.3	10.0	SOL	P	30-MAR-10 04:01	032910A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 04:01	032910A-1
	Cadmium	1.27	+/-5	J	1.0	5.0	SOL	P	30-MAR-10 04:01	032910A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 04:01	032910A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 04:01	032910A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	30-MAR-10 04:01	032910A-1
	Copper	-6.55	+/-10	J	3.0	10.0	SOL	P	30-MAR-10 04:01	032910A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	30-MAR-10 04:01	032910A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	30-MAR-10 04:01	032910A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	30-MAR-10 04:01	032910A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	30-MAR-10 04:01	032910A-1
	Potassium	-80.21	+/-250	J	64.0	250	SOL	P	30-MAR-10 04:01	032910A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	30-MAR-10 04:01	032910A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	30-MAR-10 04:01	032910A-1
	Vanadium	5.09	+/-5		1.0	5.0	SOL	P	30-MAR-10 04:01	032910A-1
	Zinc	-3.37	+/-10	J	3.3	10.0	SOL	P	30-MAR-10 04:01	032910A-1

METALS
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PREPARATION BLANK SUMMARY

SDG NO. 10-2122
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>
1202056211	Mercury	3.55	ug/kg	+/-10.5	U	AV	3.55	10.5
1202056918	Aluminum	6730	ug/Kg	+/-19800	U	P	6730	19800
	Antimony	-616	ug/Kg	+/-990	J	P	327	990
	Barium	99	ug/Kg	+/-495	U	P	99	495
	Cadmium	114	ug/Kg	+/-495	J	P	99	495
	Calcium	7920	ug/Kg	+/-24800	U	P	7920	24800
	Chromium	149	ug/Kg	+/-495	U	P	149	495
	Cobalt	149	ug/Kg	+/-495	U	P	149	495
	Copper	-634	ug/Kg	+/-990	J	P	297	990
	Iron	7920	ug/Kg	+/-24800	U	P	7920	24800
	Lead	281	ug/Kg	+/-990	J	P	248	990
	Magnesium	8420	ug/Kg	+/-29700	U	P	8420	29700
	Manganese	198	ug/Kg	+/-990	U	P	198	990
	Potassium	-9750	ug/Kg	+/-24800	J	P	6340	24800
	Silver	99	ug/Kg	+/-495	U	P	99	495
	Sodium	6930	ug/Kg	+/-24800	U	P	6930	24800
	Vanadium	518	ug/Kg	+/-495		P	99	495
	Zinc	327	ug/Kg	+/-990	U	P	327	990
1202056924	Arsenic	0.192	mg/kg	+/-0.962	U	MS	0.192	0.962
	Beryllium	0.0192	mg/kg	+/-0.0962	U	MS	0.0192	0.0962
	Nickel	0.0962	mg/kg	+/-0.385	U	MS	0.0962	0.385
	Selenium	0.481	mg/kg	+/-0.962	U	MS	0.481	0.962
	Thallium	0.0577	mg/kg	+/-0.192	U	MS	0.0577	0.192
	Uranium	0.0127	mg/kg	+/-0.0385	U	MS	0.0127	0.0385

METALS
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Interference Check Sample

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Aluminum	485000	ug/L	500000	ug/L	97.1	80.0 - 120.0	29-MAR-10 10:07	032910A-1
	Antimony	-10.7	ug/L					29-MAR-10 10:07	032910A-1
	Barium	0.509	ug/L					29-MAR-10 10:07	032910A-1
	Cadmium	1.46	ug/L					29-MAR-10 10:07	032910A-1
	Calcium	448000	ug/L	500000	ug/L	89.5	80.0 - 120.0	29-MAR-10 10:07	032910A-1
	Chromium	-8.77	ug/L					29-MAR-10 10:07	032910A-1
	Cobalt	-0.416	ug/L					29-MAR-10 10:07	032910A-1
	Copper	-1.92	ug/L					29-MAR-10 10:07	032910A-1
	Iron	184000	ug/L	200000	ug/L	91.9	80.0 - 120.0	29-MAR-10 10:07	032910A-1
	Lead	-7.39	ug/L					29-MAR-10 10:07	032910A-1
	Magnesium	484000	ug/L	500000	ug/L	96.8	80.0 - 120.0	29-MAR-10 10:07	032910A-1
	Manganese	-0.822	ug/L					29-MAR-10 10:07	032910A-1
	Potassium	-181.0	ug/L					29-MAR-10 10:07	032910A-1
	Silver	-3.9	ug/L					29-MAR-10 10:07	032910A-1
	Sodium	44.2	ug/L					29-MAR-10 10:07	032910A-1
	Vanadium	3.17	ug/L					29-MAR-10 10:07	032910A-1
	Zinc	-1.99	ug/L					29-MAR-10 10:07	032910A-1
ICSAB01									
	Aluminum	492000	ug/L	500000	ug/L	98.5	80.0 - 120.0	29-MAR-10 10:14	032910A-1
	Antimony	543	ug/L	500	ug/L	109	80.0 - 120.0	29-MAR-10 10:14	032910A-1
	Barium	506	ug/L	500	ug/L	101	80.0 - 120.0	29-MAR-10 10:14	032910A-1
	Cadmium	493	ug/L	500	ug/L	98.5	80.0 - 120.0	29-MAR-10 10:14	032910A-1
	Calcium	457000	ug/L	500000	ug/L	91.3	80.0 - 120.0	29-MAR-10 10:14	032910A-1
	Chromium	501	ug/L	500	ug/L	100	80.0 - 120.0	29-MAR-10 10:14	032910A-1
	Cobalt	459	ug/L	500	ug/L	91.8	80.0 - 120.0	29-MAR-10 10:14	032910A-1
	Copper	567	ug/L	500	ug/L	113	80.0 - 120.0	29-MAR-10 10:14	032910A-1
	Iron	195000	ug/L	200000	ug/L	97.5	80.0 - 120.0	29-MAR-10 10:14	032910A-1
	Lead	479	ug/L	500	ug/L	95.8	80.0 - 120.0	29-MAR-10 10:14	032910A-1
	Magnesium	503000	ug/L	500000	ug/L	101	80.0 - 120.0	29-MAR-10 10:14	032910A-1

SW846

METALS

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Interference Check Sample

SDG No: 10-2122

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	492	ug/L	500	ug/L	98.4	80.0 – 120.0	29-MAR-10 10:14	032910A-1
	Potassium	5340	ug/L	5000	ug/L	107	80.0 – 120.0	29-MAR-10 10:14	032910A-1
	Silver	285	ug/L	250	ug/L	114	80.0 – 120.0	29-MAR-10 10:14	032910A-1
	Sodium	5500	ug/L	5000	ug/L	110	80.0 – 120.0	29-MAR-10 10:14	032910A-1
	Vanadium	532	ug/L	500	ug/L	106	80.0 – 120.0	29-MAR-10 10:14	032910A-1
	Zinc	507	ug/L	500	ug/L	101	80.0 – 120.0	29-MAR-10 10:14	032910A-1

METALS

-4-

Interference Check Sample

SDG No: 10-2122

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Antimony	2.36	ug/L					05-APR-10 08:37	040510-2
ICSAB01	Antimony	572	ug/L	500	ug/L	114	80.0 - 120.0	05-APR-10 08:44	040510-2

METALS

-4-

Interference Check Sample

SDG No: 10-2122

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	-0.078	ug/L					12-APR-10 23:10	100412-3
	Beryllium	0.098	ug/L					12-APR-10 23:10	100412-3
	Nickel	2.74	ug/L					12-APR-10 23:10	100412-3
	Selenium	-0.795	ug/L					12-APR-10 23:10	100412-3
	Thallium	-0.059	ug/L					12-APR-10 23:10	100412-3
	Uranium	-0.018	ug/L					12-APR-10 23:10	100412-3
ICSAB01									
	Arsenic	19.7	ug/L	20	ug/L	98.7	80.0 - 120.0	12-APR-10 23:14	100412-3
	Beryllium	20.3	ug/L	20	ug/L	101	80.0 - 120.0	12-APR-10 23:14	100412-3
	Nickel	21.1	ug/L	23.31	ug/L	90.6	80.0 - 120.0	12-APR-10 23:14	100412-3
	Selenium	19.4	ug/L	20	ug/L	97.1	80.0 - 120.0	12-APR-10 23:14	100412-3
	Thallium	17.9	ug/L	20	ug/L	89.7	80.0 - 120.0	12-APR-10 23:14	100412-3
	Uranium	20.7	ug/L	20	ug/L	104	80.0 - 120.0	12-APR-10 23:14	100412-3

METALS

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Interference Check Sample

SDG No: 10-2122

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	-0.209	ug/L					13-APR-10 04:59	100412-5
	Beryllium	0.14	ug/L					13-APR-10 04:59	100412-5
	Nickel	2.92	ug/L					13-APR-10 04:59	100412-5
	Selenium	-1.18	ug/L					13-APR-10 04:59	100412-5
	Thallium	0.005	ug/L					13-APR-10 04:59	100412-5
	Uranium	-0.025	ug/L					13-APR-10 04:59	100412-5
ICSAB01									
	Arsenic	20.5	ug/L	20	ug/L	102	80.0 - 120.0	13-APR-10 05:03	100412-5
	Beryllium	19.0	ug/L	20	ug/L	95	80.0 - 120.0	13-APR-10 05:03	100412-5
	Nickel	21.9	ug/L	23.31	ug/L	93.9	80.0 - 120.0	13-APR-10 05:03	100412-5
	Selenium	19.8	ug/L	20	ug/L	99.2	80.0 - 120.0	13-APR-10 05:03	100412-5
	Thallium	18.8	ug/L	20	ug/L	93.9	80.0 - 120.0	13-APR-10 05:03	100412-5
	Uranium	21.2	ug/L	20	ug/L	106	80.0 - 120.0	13-APR-10 05:03	100412-5

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2122

Client ID RE11-10-1651S

Contract: LANL01004

Level: Low

Matrix: SOIL

% Solids: 77

Sample ID: 248189001

Spike ID: 1202056214

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Mercury	ug/kg	75-125	164		8.44	J	149	104		AV

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-2122 Client ID RE11-10-1651SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 77

Sample ID: 248189001 Spike ID: 1202056216

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/kg	75-125	124		8.44	J	147	78.8		AV

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2122 **Client ID** RE36-10-7405S

Contract: LANL01004 **Level:** Low

Matrix: SOIL **% Solids:** 82

Sample ID: 248198001 **Spike ID:** 1202056921

<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>
Aluminum	ug/Kg		12700000		7100000		595000	940	N/A	P
Antimony	ug/Kg	75-125	48900		387	U	59500	82.1		P
Barium	ug/Kg	75-125	177000		92400		59500	142	N	P
Cadmium	ug/Kg	75-125	56700		345	J	59500	94.6		P
Calcium	ug/Kg		5390000		3520000		595000	314	N/A	P
Chromium	ug/Kg	75-125	68100		6890		59500	103		P
Cobalt	ug/Kg	75-125	59000		3250		59500	93.6		P
Copper	ug/Kg	75-125	72500		6640		59500	111		P
Iron	ug/Kg		11700000		10400000		595000	219	N/A	P
Lead	ug/Kg	75-125	74900		15600		59500	99.5		P
Magnesium	ug/Kg	75-125	2680000		1580000		595000	185	N	P
Manganese	ug/Kg		789000		537000		59500	424	N/A	P
Potassium	ug/Kg	75-125	3190000		1970000		595000	205	N	P
Silver	ug/Kg	75-125	59200		348	J	59500	98.9		P
Sodium	ug/Kg	75-125	670000		92000		595000	97		P
Vanadium	ug/Kg	75-125	79300		15800		59500	107		P
Zinc	ug/Kg	75-125	116000		51400		59500	109		P

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-2122 Client ID RE36-10-7405SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 82

Sample ID: 248198001 Spike ID: 1202056922

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg		12000000		7100000		606000	811	N/A	P
Antimony	ug/Kg	75-125	51300		387	U	60600	84.6		P
Barium	ug/Kg	75-125	164000		92400		60600	118		P
Cadmium	ug/Kg	75-125	57400		345	J	60600	94.1		P
Calcium	ug/Kg		4870000		3520000		606000	223	N/A	P
Chromium	ug/Kg	75-125	68100		6890		60600	101		P
Cobalt	ug/Kg	75-125	59200		3250		60600	92.3		P
Copper	ug/Kg	75-125	71600		6640		60600	107		P
Iron	ug/Kg		11100000		10400000		606000	129	N/A	P
Lead	ug/Kg	75-125	73600		15600		60600	95.7		P
Magnesium	ug/Kg	75-125	2520000		1580000		606000	154	N	P
Manganese	ug/Kg		702000		537000		60600	272	N/A	P
Potassium	ug/Kg	75-125	3010000		1970000		606000	172	N	P
Silver	ug/Kg	75-125	59600		348	J	60600	97.8		P
Vanadium	ug/Kg	75-125	78300		15800		60600	103		P
Zinc	ug/Kg	75-125	112000		51400		60600	101		P
Sodium	ug/Kg	75-125	669000		92000		606000	95.2		P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2122 Client ID RE36-10-7405S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 82

Sample ID: 248198001 Spike ID: 1202056927

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/kg	75-125	10.3		2.01		9.38	88.7		MS
Beryllium	mg/kg	75-125	6.17		0.834		5.86	91.1		MS
Nickel	mg/kg	75-125	11.1		6.01		5.86	87.6		MS
Selenium	mg/kg	75-125	2.21		0.574	U	2.34	77.2		MS
Thallium	mg/kg	75-125	10.3		0.124	J	11.7	86.4		MS
Uranium	mg/kg	75-125	7.22		1.67		5.86	94.6		MS

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-2122 Client ID RE36-10-7405SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 82

Sample ID: 248198001 Spike ID: 1202056928

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/kg	75-125	10.7		2.01		9.68	89.8		MS
Beryllium	mg/kg	75-125	6.72		0.834		6.05	97.3		MS
Nickel	mg/kg	75-125	12.1		6.01		6.05	101		MS
Selenium	mg/kg	75-125	2.17		0.574	U	2.42	73.2	N	MS
Thallium	mg/kg	75-125	11		0.124	J	12.1	89.8		MS
Uranium	mg/kg	75-125	8.27		1.67		6.05	109		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2122

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE11-10-1651D

Sample ID: 248189001

Duplicate ID: 1202056213

Percent Solids for Dup: 77

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-13.3	8.44 J		10 J		17.2		AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2122

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE11-10-1651SD

Sample ID: 1202056214

Duplicate ID: 1202056216

Percent Solids for Dup: 77

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-20	164		124		27.5	*	AV

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-2122

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-7405D

Sample ID: 248198001

Duplicate ID: 1202056919

Percent Solids for Dup: 82

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20%	7100000		6630000		6.82		P
Antimony	ug/Kg		387 U		392 U				P
Barium	ug/Kg	+/-20%	92400		95200		3.01		P
Cadmium	ug/Kg	+/-594	345 J		449 J		26.2		P
Calcium	ug/Kg	+/-20%	3520000		3910000		10.7		P
Chromium	ug/Kg	+/-20%	6890		7120		3.25		P
Cobalt	ug/Kg	+/-20%	3250		3110		4.52		P
Copper	ug/Kg	+/-20%	6640		6990		5.04		P
Iron	ug/Kg	+/-20%	10400000		9420000		9.37		P
Lead	ug/Kg	+/-20%	15600		17200		9.68		P
Magnesium	ug/Kg	+/-20%	1580000		1540000		2.61		P
Manganese	ug/Kg	+/-20%	537000		586000		8.67		P
Potassium	ug/Kg	+/-20%	1970000		1950000		.835		P
Silver	ug/Kg	+/-594	348 J		503 J		36.4		P
Sodium	ug/Kg	+/-29700	92000		87700		4.75		P
Vanadium	ug/Kg	+/-20%	15800		15900		.366		P
Zinc	ug/Kg	+/-20%	51400		44600		14.1		P

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2122

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-7405SD

Sample ID: 1202056921

Duplicate ID: 1202056922

Percent Solids for Dup: 82

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20	12700000		12000000		5.49		P
Antimony	ug/Kg	+/-20	48900		51300		4.78		P
Barium	ug/Kg	+/-20	177000		164000		7.76		P
Cadmium	ug/Kg	+/-20	56700		57400		1.23		P
Calcium	ug/Kg	+/-20	5390000		4870000		10.2		P
Chromium	ug/Kg	+/-20	68100		68100		.0124		P
Cobalt	ug/Kg	+/-20	59000		59200		.432		P
Copper	ug/Kg	+/-20	72500		71600		1.19		P
Iron	ug/Kg	+/-20	11700000		11100000		4.57		P
Lead	ug/Kg	+/-20	74900		73600		1.64		P
Magnesium	ug/Kg	+/-20	2680000		2520000		6.49		P
Manganese	ug/Kg	+/-20	789000		702000		11.7		P
Potassium	ug/Kg	+/-20	3190000		3010000		5.76		P
Silver	ug/Kg	+/-20	59200		59600		.664		P
Sodium	ug/Kg	+/-20	670000		669000		.117		P
Vanadium	ug/Kg	+/-20	79300		78300		1.26		P
Zinc	ug/Kg	+/-20	116000		112000		3.09		P

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2122

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-7405D

Sample ID: 248198001

Duplicate ID: 1202056925

Percent Solids for Dup: 82

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-1.18	2.01		1.83		9.62		MS
Beryllium	mg/kg	+/-20%	0.834		0.78		6.71		MS
Nickel	mg/kg	+/-20%	6.01		5.34		11.8		MS
Selenium	mg/kg		0.574 U		0.59 U				MS
Thallium	mg/kg	+/- .236	0.124 J		0.0774 J		46.3		MS
Uranium	mg/kg	+/-20%	1.67		1.49		11.4		MS

Metals

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Duplicate Sample Summary

SDG No.: 10-2122

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-7405SD

Sample ID: 1202056927

Duplicate ID: 1202056928

Percent Solids for Dup: 82

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-20	10.3		10.7		3.54		MS
Beryllium	mg/kg	+/-20	6.17		6.72		8.48		MS
Nickel	mg/kg	+/-20	11.1		12.1		8.21		MS
Selenium	mg/kg	+/-20	2.21		2.17		1.81		MS
Thallium	mg/kg	+/-20	10.3		11		6.92		MS
Uranium	mg/kg	+/-20	7.22		8.27		13.5		MS

METALS

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Laboratory Control Sample Summary

SDG NO. 10-2122

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>
1202056212	Mercury	ug/kg	5150	5670		110	71.6-128.3	AV

METALS

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Laboratory Control Sample Summary

SDG NO. 10-2122

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>
1202056923								
	Manganese	ug/Kg	558000	545000		97.6	81-119	P
	Potassium	ug/Kg	4300000	4080000		95	74-127	P
	Silver	ug/Kg	30100	30400		101	66-134	P
	Sodium	ug/Kg	1020000	1020000		99.6	74-127	P
	Vanadium	ug/Kg	115000	124000		108	79-121	P
	Zinc	ug/Kg	594000	591000		99.6	80-121	P
	Aluminum	ug/Kg	10500000	9070000		86.4	56-144	P
	Antimony	ug/Kg	173000	160000		92.2	71-130	P
	Barium	ug/Kg	198000	191000		96.5	80-120	P
	Cadmium	ug/Kg	60700	61400		101	81-120	P
	Calcium	ug/Kg	9870000	9290000		94.1	83-117	P
	Chromium	ug/Kg	236000	254000		108	80-120	P
	Cobalt	ug/Kg	91200	90900		99.7	81-120	P
	Copper	ug/Kg	174000	192000		110	81-118	P
	Iron	ug/Kg	18000000	16600000		92.3	51-149	P
	Lead	ug/Kg	86000	78600		91.4	79-121	P
	Magnesium	ug/Kg	4000000	3650000		91.2	79-122	P

METALS

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Laboratory Control Sample Summary

SDG NO. 10-2122

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>
1202056929								
	Arsenic	mg/kg	104	101		96.7	78-123	MS
	Beryllium	mg/kg	77.6	79.6		103	84-116	MS
	Nickel	mg/kg	134	132		98.2	78-123	MS
	Selenium	mg/kg	286	273		95.6	77-123	MS
	Thallium	mg/kg	121	120		99	78-122	MS
	Uranium	mg/kg	2.13	1.79		84.2	73-127	MS

METALS

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Serial Dilution Sample Summary

SDG NO. 10-2122 Client ID RE11-10-1651L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 248189001 Serial Dilution ID: 1202056215

<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	.111	J	.34	U	100			AV

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-2122 Client ID RE36-10-7405L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 248198001 Serial Dilution ID: 1202056920

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	60500		59500		1.65		10	P
Antimony	3.3	U	16.5	U				P
Barium	788		805		2.16		10	P
Cadmium	2.94	J	7.8	J	165			P
Calcium	30000		29200		2.67		10	P
Chromium	58.8		60.5		2.89			P
Cobalt	27.7		32		15.5			P
Copper	56.7		27.4	J	51.7			P
Iron	88300		89000		.793		10	P
Lead	133		149		12	E	10	P
Magnesium	13500		13500		0		10	P
Manganese	4580		4780		4.37		10	P
Potassium	16800		16000		5.06		10	P
Silver	2.97	J	5	U	100			P
Sodium	785		860	J	9.55			P
Vanadium	135		155		14.8	E	10	P
Zinc	438		430		1.94		10	P

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-2122 Client ID RE36-10-7405L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 248198001 Serial Dilution ID: 1202056926

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Arsenic	8.77		9.95	J	13.5			MS
Beryllium	3.63		3.82		5.23			MS
Nickel	26.2		28		6.87			MS
Selenium	2.5	U	12.5	U				MS
Thallium	.54	J	1.5	U	100			MS
Uranium	7.29		7.5		2.88		10	MS

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2122

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	959126						
1202056918	MB for batch 959126	MB	S	04-MAR-10	.505g	50mL	
1202056923	LCS for batch 959126	LCS	S	04-MAR-10	.514g	50mL	
1202056921	RE36-10-7405S	MS	S	04-MAR-10	.509g	50mL	
1202056922	RE36-10-7405SD	MSD	S	04-MAR-10	.5g	50mL	
1202056919	RE36-10-7405D	DUP	S	04-MAR-10	.51g	50mL	
248198001	RE36-10-7405	SAMPLE	S	04-MAR-10	.517g	50mL	
248198002	RE36-10-7403	SAMPLE	S	04-MAR-10	.518g	50mL	
248198003	RE36-10-7406	SAMPLE	S	04-MAR-10	.527g	50mL	
248198004	RE36-10-7404	SAMPLE	S	04-MAR-10	.52g	50mL	
248198005	RE36-10-7516	SAMPLE	S	04-MAR-10	.512g	50mL	
248198006	RE36-10-7426	SAMPLE	S	04-MAR-10	.502g	50mL	
248198007	RE36-10-7432	SAMPLE	S	04-MAR-10	.512g	50mL	
248198008	RE36-10-7431	SAMPLE	S	04-MAR-10	.573g	50mL	
248198009	RE36-10-7434	SAMPLE	S	04-MAR-10	.501g	50mL	
248198010	RE36-10-7425	SAMPLE	S	04-MAR-10	.562g	50mL	
248198011	RE36-10-7429	SAMPLE	S	04-MAR-10	.507g	50mL	
248198012	RE36-10-7433	SAMPLE	S	04-MAR-10	.522g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2122

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	959128						
1202056924	MB for batch 959128	MB	S	04-MAR-10	.52g	50mL	
1202056929	LCS for batch 959128	LCS	S	04-MAR-10	.505g	50mL	
1202056927	RE36-10-7405S	MS	S	04-MAR-10	.517g	50mL	
1202056928	RE36-10-7405SD	MSD	S	04-MAR-10	.501g	50mL	
1202056925	RE36-10-7405D	DUP	S	04-MAR-10	.514g	50mL	
248198001	RE36-10-7405	SAMPLE	S	04-MAR-10	.528g	50mL	
248198002	RE36-10-7403	SAMPLE	S	04-MAR-10	.541g	50mL	
248198003	RE36-10-7406	SAMPLE	S	04-MAR-10	.5g	50mL	
248198004	RE36-10-7404	SAMPLE	S	04-MAR-10	.508g	50mL	
248198005	RE36-10-7516	SAMPLE	S	04-MAR-10	.5g	50mL	
248198006	RE36-10-7426	SAMPLE	S	04-MAR-10	.506g	50mL	
248198007	RE36-10-7432	SAMPLE	S	04-MAR-10	.526g	50mL	
248198008	RE36-10-7431	SAMPLE	S	04-MAR-10	.509g	50mL	
248198009	RE36-10-7434	SAMPLE	S	04-MAR-10	.537g	50mL	
248198010	RE36-10-7425	SAMPLE	S	04-MAR-10	.525g	50mL	
248198011	RE36-10-7429	SAMPLE	S	04-MAR-10	.526g	50mL	
248198012	RE36-10-7433	SAMPLE	S	04-MAR-10	.504g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2122

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 958769							
1202056211	MB for batch 958769	MB	S	11-MAR-10	.574g	30mL	
1202056212	LCS for batch 958769	LCS	S	11-MAR-10	.208g	30mL	
1202056214	RE11-10-1651S	MS	S	11-MAR-10	.521g	30mL	
1202056216	RE11-10-1651SD	MSD	S	11-MAR-10	.528g	30mL	
1202056213	RE11-10-1651D	DUP	S	11-MAR-10	.583g	30mL	
248198001	RE36-10-7405	SAMPLE	S	11-MAR-10	.514g	30mL	
248198002	RE36-10-7403	SAMPLE	S	11-MAR-10	.569g	30mL	
248198003	RE36-10-7406	SAMPLE	S	11-MAR-10	.545g	30mL	
248198004	RE36-10-7404	SAMPLE	S	11-MAR-10	.576g	30mL	
248198005	RE36-10-7516	SAMPLE	S	11-MAR-10	.511g	30mL	
248198006	RE36-10-7426	SAMPLE	S	11-MAR-10	.501g	30mL	
248198007	RE36-10-7432	SAMPLE	S	11-MAR-10	.521g	30mL	
248198008	RE36-10-7431	SAMPLE	S	11-MAR-10	.515g	30mL	
248198009	RE36-10-7434	SAMPLE	S	11-MAR-10	.565g	30mL	
248198010	RE36-10-7425	SAMPLE	S	11-MAR-10	.546g	30mL	
248198011	RE36-10-7429	SAMPLE	S	11-MAR-10	.581g	30mL	
248198012	RE36-10-7433	SAMPLE	S	11-MAR-10	.52g	30mL	

SW846

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 12-APR-10

End Date: 13-APR-10

Client Sdg: 10-2122

Method: MS

Data File: 100412-3

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	22:46:00			X		X											X	X			X	X			
S10	1	22:50:00			X		X											X	X			X	X			
S100	1	22:54:00			X		X											X	X			X	X			
ICV01	1	22:58:00			X		X											X	X			X	X			
ICB01	1	23:02:00			X		X											X	X			X	X			
CRDL01	1	23:06:00			X		X											X	X			X	X			
ICSA01	1	23:10:00			X		X											X	X			X	X			
ICSAB01	1	23:14:00			X		X											X	X			X	X			
CCV01	1	23:18:00			X		X											X	X			X	X			
CCB01	1	23:23:00			X		X											X	X			X	X			
ZZZZZZ	2	23:27:00																								
ZZZZZZ	40	23:31:00																								
ZZZZZZ	2	23:35:00																								
ZZZZZZ	2	23:39:00																								
ZZZZZZ	2	23:43:00																								
ZZZZZZ	2	23:47:00																								
ZZZZZZ	10	23:51:00																								
ZZZZZZ	2	23:55:00																								
CCV02	1	23:59:00			X		X											X	X			X	X			
CCB02	1	00:04:00			X		X											X	X			X	X			
ZZZZZZ	2	00:08:00																								
ZZZZZZ	2	00:12:00																								
ZZZZZZ	2	00:16:00																								
ZZZZZZ	2	00:20:00																								
ZZZZZZ	2	00:24:00																								
ZZZZZZ	2	00:28:00																								
ZZZZZZ	2	00:32:00																								
ZZZZZZ	2	00:36:00																								
CCV03	1	00:40:00			X		X											X	X			X	X			
CCB03	1	00:45:00			X		X											X	X			X	X			
1202056924	2	00:49:00			X		X											X	X			X	X			
1202056929	40	00:53:00			X		X											X	X			X	X			
248198001	2	00:57:00			X		X											X	X			X	X			
1202056925	2	01:01:00			X		X											X	X			X	X			
1202056927	2	01:05:00			X		X											X	X			X	X			
1202056928	2	01:09:00			X		X											X	X			X	X			
1202056926	10	01:13:00			X		X											X	X			X	X			
CCV04	1	01:18:00			X		X											X	X			X	X			
CCB04	1	01:22:00			X		X											X	X			X	X			
248198002	2	01:26:00			X		X											X	X			X	X			

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time													X	X			X	X			
248198003	2	01:30:00			X	X									X	X			X	X			
248198004	2	01:34:00			X	X									X	X			X	X			
248198005	2	01:38:00			X	X									X	X			X	X			
248198006	2	01:42:00			X	X									X	X			X	X			
248198007	2	01:46:00			X	X									X	X			X	X			
CCV05	1	01:50:00			X	X									X	X			X	X			
CCB05	1	01:55:00			X	X									X	X			X	X			
ZZZZZZ	2	01:59:00																					
248198009	2	02:03:00			X	X									X	X			X	X			
248198010	2	02:07:00			X	X									X	X			X	X			
248198011	2	02:11:00			X	X									X	X			X	X			
248198012	2	02:15:00			X	X									X	X			X	X			
CCV06	1	02:19:00			X	X									X	X			X	X			
CCB06	1	02:23:00			X	X									X	X			X	X			

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 12-APR-10

End Date: 13-APR-10

Client Sdg: 10-2122

Method: MS

Data File: 100412-5

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	04:35:00			X		X											X		X			X	X		
S10	1	04:39:00			X		X											X		X			X	X		
S100	1	04:43:00			X		X											X		X			X	X		
ICV01	1	04:47:00			X		X											X		X			X	X		
ICB01	1	04:51:00			X		X											X		X			X	X		
CRDL01	1	04:55:00			X		X											X		X			X	X		
ICSA01	1	04:59:00			X		X											X		X			X	X		
ICSAB01	1	05:03:00			X		X											X		X			X	X		
CCV01	1	05:08:00			X		X											X		X			X	X		
CCB01	1	05:12:00			X		X											X		X			X	X		
ZZZZZZ	2	05:16:00																								
ZZZZZZ	40	05:20:00																								
ZZZZZZ	2	05:24:00																								
ZZZZZZ	2	05:28:00																								
ZZZZZZ	2	05:32:00																								
ZZZZZZ	2	05:36:00																								
ZZZZZZ	10	05:40:00																								
ZZZZZZ	2	05:44:00																								
CCV02	1	05:49:00			X		X											X		X			X	X		
CCB02	1	05:53:00			X		X											X		X			X	X		
ZZZZZZ	2	05:57:00																								
ZZZZZZ	2	06:01:00																								
ZZZZZZ	2	06:05:00																								
ZZZZZZ	2	06:09:00																								
ZZZZZZ	2	06:13:00																								
ZZZZZZ	2	06:17:00																								
ZZZZZZ	2	06:21:00																								
ZZZZZZ	2	06:26:00																								
CCV03	1	06:30:00			X		X											X		X			X	X		
CCB03	1	06:34:00			X		X											X		X			X	X		
ZZZZZZ	2	06:38:00																								
ZZZZZZ	40	06:42:00																								
ZZZZZZ	2	06:46:00																								
ZZZZZZ	2	06:50:00																								
ZZZZZZ	2	06:54:00																								
ZZZZZZ	2	06:58:00																								
ZZZZZZ	10	07:03:00																								
CCV04	1	07:07:00			X		X											X		X			X	X		
CCB04	1	07:11:00			X		X											X		X			X	X		
ZZZZZZ	2	07:15:00																								

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time																		
ZZZZZZ	2	07:19:00																		
ZZZZZZ	2	07:23:00																		
ZZZZZZ	2	07:27:00																		
ZZZZZZ	2	07:31:00																		
ZZZZZZ	2	07:35:00																		
CCV05	1	07:40:00		X	X							X	X			X	X			
CCB05	1	07:44:00		X	X							X	X			X	X			
248198008	2	07:48:00		X	X							X	X			X	X			
ZZZZZZ	2	07:52:00																		
ZZZZZZ	2	07:56:00																		
ZZZZZZ	2	08:00:00																		
ZZZZZZ	2	08:04:00																		
CCV06	1	08:08:00		X	X							X	X			X	X			
CCB06	1	08:13:00		X	X							X	X			X	X			

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA3

Start Date: 29-MAR-10

End Date: 30-MAR-10

Client Sdg: 10-2122

Method P

Data File: 032910A-J

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Ti	U	V	Zn
S0.0	1	09:13:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
S0.1	1	09:20:00		X		X		X		X	X	X		X		X			X		X				X	X
S0.5	1	09:27:00	X	X		X		X	X	X	X	X		X	X	X			X		X				X	X
SCAL	1	09:34:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
S10	1	09:41:00	X					X					X		X							X				
ICV01	1	09:46:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICB01	1	09:53:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
PQL01	1	10:00:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICSA01	1	10:07:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICSAB01	1	10:14:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR01	1	10:20:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR02	1	10:27:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV01	1	10:34:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB01	1	10:41:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	10:47:00																								
ZZZZZZ	1	10:53:00																								
CCV02	1	11:00:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB02	1	11:07:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	11:14:00																								
ZZZZZZ	1	11:21:00																								
ZZZZZZ	1	11:27:00																								
ZZZZZZ	1	11:34:00																								
ZZZZZZ	1	11:41:00																								
ZZZZZZ	1	11:48:00																								
ZZZZZZ	1	11:55:00																								
CCV03	1	12:01:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB03	1	12:08:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	10	12:15:00																								
ZZZZZZ	10	12:22:00																								
ZZZZZZ	10	12:29:00																								
ZZZZZZ	50	12:35:00																								
ZZZZZZ	10	12:42:00																								
ZZZZZZ	10	12:49:00																								
ZZZZZZ	10	12:56:00																								
CCV04	1	13:03:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB04	1	13:10:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	2	13:15:00																								
ZZZZZZ	2	13:22:00																								
ZZZZZZ	2	13:29:00																								
ZZZZZZ	2	13:36:00																								

SW846

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
ZZZZZZ	1	19:00:00																								
CCV10	1	19:07:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB10	1	19:14:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	19:20:00																								
ZZZZZZ	1	19:27:00																								
ZZZZZZ	1	19:34:00																								
ZZZZZZ	1	19:41:00																								
ZZZZZZ	1	19:49:00																								
ZZZZZZ	1	19:55:00																								
ZZZZZZ	1	20:02:00																								
ZZZZZZ	1	20:09:00																								
ZZZZZZ	1	20:16:00																								
CCV11	1	20:23:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB11	1	20:30:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	20:37:00																								
ZZZZZZ	1	20:44:00																								
ZZZZZZ	1	20:51:00																								
ZZZZZZ	1	20:58:00																								
ZZZZZZ	1	21:05:00																								
ZZZZZZ	1	21:12:00																								
ZZZZZZ	1	21:19:00																								
ZZZZZZ	5	21:26:00																								
CCV12	1	21:33:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB12	1	21:40:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	21:47:00																								
ZZZZZZ	1	21:53:00																								
ZZZZZZ	1	22:01:00																								
ZZZZZZ	1	22:08:00																								
ZZZZZZ	1	22:15:00																								
ZZZZZZ	1	22:22:00																								
ZZZZZZ	1	22:29:00																								
ZZZZZZ	1	22:36:00																								
CCV13	1	22:43:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB13	1	22:50:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	22:57:00																								
ZZZZZZ	1	23:04:00																								
ZZZZZZ	1	23:11:00																								
ZZZZZZ	1	23:18:00																								
ZZZZZZ	5	23:25:00																								
ZZZZZZ	1	23:32:00																								

SW846

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA3

Start Date: 05-APR-10

End Date: 05-APR-10

Client Sdg: 10-2122

Method P

Data File: 040510-2

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	07:41:00	X																							
S0.1	1	07:49:00	X																							
S0.5	1	07:56:00	X																							
SCAL	1	08:03:00	X																							
S10	1	08:10:00																								
ICV01	1	08:15:00	X																							
ICB01	1	08:22:00	X																							
PQL01	1	08:30:00	X																							
ICSA01	1	08:37:00	X																							
ICSAB01	1	08:44:00	X																							
LR01	1	08:50:00	X																							
LR02	1	08:58:00	X																							
CCV01	1	09:04:00	X																							
CCB01	1	09:11:00	X																							
LR03	1	09:26:00	X																							
CCV02	1	09:33:00	X																							
CCB02	1	09:40:00	X																							
248198002	5	09:48:00	X																							
248198004	5	09:55:00	X																							
ZZZZZZ	5	10:02:00																								
ZZZZZZ	5	10:08:00																								
ZZZZZZ	5	10:15:00																								
ZZZZZZ	5	10:22:00																								
CCV03	1	10:29:00	X																							
CCB03	1	10:36:00	X																							

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: HG3

Start Date: 12-MAR-10

End Date: 12-MAR-10

Client Sdg: 10-2122

Method: AV

Data File: 031210S1-6

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	09:08:00															X									
S0.2	1	09:09:00															X									
S0.5	1	09:11:00															X									
S2.0	1	09:13:00															X									
S5.0	1	09:14:00															X									
S10.0	1	09:16:00															X									
ICV01	1	09:18:00															X									
ICB01	1	09:19:00															X									
CRDL01	1	09:21:00															X									
CCV01	1	09:23:00															X									
CCB01	1	09:24:00															X									
ZZZZZZ	1	09:26:00																								
ZZZZZZ	10	09:28:00																								
ZZZZZZ	1	09:29:00																								
ZZZZZZ	1	09:31:00																								
ZZZZZZ	1	09:33:00																								
ZZZZZZ	1	09:34:00																								
ZZZZZZ	5	09:36:00																								
ZZZZZZ	1	09:38:00																								
ZZZZZZ	1	09:39:00																								
ZZZZZZ	10	09:41:00																								
CCV02	1	09:43:00															X									
CCB02	1	09:44:00															X									
ZZZZZZ	1	09:46:00																								
ZZZZZZ	1	09:48:00																								
ZZZZZZ	1	09:49:00																								
ZZZZZZ	1	09:51:00																								
ZZZZZZ	5	09:53:00																								
ZZZZZZ	1	09:54:00																								
ZZZZZZ	1	09:56:00																								
ZZZZZZ	1	09:58:00																								
ZZZZZZ	1	09:59:00																								
ZZZZZZ	1	10:01:00																								
CCV03	1	10:03:00															X									
CCB03	1	10:04:00															X									
ZZZZZZ	1	10:06:00																								
ZZZZZZ	1	10:08:00																								
ZZZZZZ	1	10:09:00																								
ZZZZZZ	1	10:11:00																								
ZZZZZZ	1	10:13:00																								

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time
ZZZZZZ	1	10:14:00
ZZZZZZ	1	10:16:00
ZZZZZZ	1	10:18:00
ZZZZZZ	1	10:20:00
ZZZZZZ	1	10:21:00
CCV04	1	10:23:00
CCB04	1	10:25:00
ZZZZZZ	1	10:26:00
ZZZZZZ	1	10:28:00
ZZZZZZ	1	10:30:00
ZZZZZZ	1	10:31:00
I202056211	1	10:33:00
I202056212	10	10:35:00
ZZZZZZ	1	10:36:00
I202056213	1	10:38:00
I202056214	1	10:40:00
I202056216	1	10:41:00
CCV05	1	10:43:00
CCB05	1	10:45:00
I202056215	5	10:46:00
ZZZZZZ	1	10:48:00
248198001	1	10:50:00
248198002	1	10:51:00
248198003	1	10:53:00
248198004	1	10:55:00
248198005	1	10:56:00
248198006	1	10:58:00
ZZZZZZ	1	11:00:00
ZZZZZZ	1	11:01:00
CCV06	1	11:03:00
CCB06	1	11:05:00
248198009	1	11:06:00
248198010	1	11:08:00
248198011	1	11:10:00
248198012	1	11:12:00
ZZZZZZ	1	11:13:00
ZZZZZZ	1	11:15:00
ZZZZZZ	1	11:17:00
ZZZZZZ	1	11:18:00
ZZZZZZ	10	11:20:00

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
ZZZZZZ	1	11:22:00																								
CCV07	1	11:23:00															X									
CCB07	1	11:25:00															X									
ZZZZZZ	1	11:27:00																								
ZZZZZZ	1	11:28:00																								
ZZZZZZ	1	11:30:00																								
ZZZZZZ	5	11:32:00																								
ZZZZZZ	1	11:33:00																								
ZZZZZZ	1	11:35:00																								
ZZZZZZ	1	11:37:00																								
ZZZZZZ	1	11:38:00																								
ZZZZZZ	1	11:40:00																								
ZZZZZZ	1	11:42:00																								
CCV08	1	11:44:00															X									
CCB08	1	11:45:00															X									
ZZZZZZ	1	11:47:00																								
ZZZZZZ	1	11:49:00																								
ZZZZZZ	1	11:50:00																								
ZZZZZZ	1	11:52:00																								
ZZZZZZ	1	11:54:00																								
ZZZZZZ	1	11:55:00																								
ZZZZZZ	1	11:57:00																								
ZZZZZZ	1	11:59:00																								
ZZZZZZ	1	12:00:00																								
ZZZZZZ	1	12:02:00																								
CCV09	1	12:04:00															X									
CCB09	1	12:05:00															X									
ZZZZZZ	1	12:07:00																								
ZZZZZZ	1	12:09:00																								
ZZZZZZ	1	12:11:00																								
ZZZZZZ	1	12:12:00																								
ZZZZZZ	10	12:14:00																								
ZZZZZZ	1	12:16:00																								
ZZZZZZ	1	12:17:00																								
ZZZZZZ	1	12:19:00																								
ZZZZZZ	1	12:21:00																								
ZZZZZZ	5	12:22:00																								
CCV10	1	12:24:00															X									
CCB10	1	12:26:00															X									
ZZZZZZ	1	12:27:00																								

Samp No.	D/F	Run Time
ZZZZZZ	1	12:29:00
ZZZZZZ	1	12:31:00
ZZZZZZ	1	12:33:00
ZZZZZZ	1	12:34:00
ZZZZZZ	1	12:36:00
ZZZZZZ	1	12:38:00
ZZZZZZ	1	12:39:00
ZZZZZZ	1	12:41:00
ZZZZZZ	1	12:43:00
CCV11	1	12:44:00
CCB11	1	12:46:00
ZZZZZZ	1	12:48:00
ZZZZZZ	1	12:49:00
ZZZZZZ	1	12:51:00
ZZZZZZ	1	12:53:00
ZZZZZZ	1	12:55:00
ZZZZZZ	1	12:56:00
ZZZZZZ	1	12:58:00
ZZZZZZ	1	13:00:00
ZZZZZZ	1	13:01:00
ZZZZZZ	1	13:03:00
CCV12	1	13:05:00
CCB12	1	13:06:00
ZZZZZZ	1	13:08:00
ZZZZZZ	5	13:10:00
ZZZZZZ	1	13:12:00
ZZZZZZ	1	13:13:00
ZZZZZZ	1	13:15:00
ZZZZZZ	1	13:17:00
ZZZZZZ	1	13:18:00
ZZZZZZ	1	13:20:00
ZZZZZZ	1	13:22:00
ZZZZZZ	1	13:24:00
CCV13	1	13:25:00
CCB13	1	13:27:00
ZZZZZZ	1	13:29:00
ZZZZZZ	5	13:30:00
ZZZZZZ	1	13:32:00
ZZZZZZ	1	13:34:00
ZZZZZZ	1	13:36:00

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	13:37:00																								
ZZZZZZ	1	13:39:00																								
ZZZZZZ	5	13:41:00																								
ZZZZZZ	1	13:42:00																								
ZZZZZZ	1	13:44:00																								
CCV14	1	13:46:00															X									
CCB14	1	13:47:00															X									
ZZZZZZ	1	13:49:00																								
CCV15	1	13:51:00															X									
CCB15	1	13:53:00															X									
248198007	100	14:05:00															X									
248198008	100	14:07:00															X									
CCV16	1	14:08:00															X									
CCB16	1	14:10:00															X									

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2122

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. 10-2122

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 15-JUN-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>			
SOLID	Mercury		0.068	.2

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2122

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

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

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-2122

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-2122

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-2122

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-2122**

Contract: LANL01004

Instrument: OPTIMA3

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

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-2122**

Contract: LANL01004

Instrument: OPTIMA3

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

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-2122

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

METALS
-12-
Linear Ranges

SDG NO. 10-2122

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
Aluminum	1	50000	ug/L	01-FEB-10
Chromium	1000	1000	ug/L	01-FEB-10
Cobalt	1000	1000	ug/L	01-FEB-10
Copper	1000	1000	ug/L	01-FEB-10
Iron	500	50000	ug/L	01-FEB-10
Lead	1000	5000	ug/L	01-FEB-10
Magnesium	1	50000	ug/L	01-FEB-10
Manganese	1000	1000	ug/L	01-FEB-10
Nickel	1000	1000	ug/L	01-FEB-10
Potassium	1	50000	ug/L	01-FEB-10
Selenium	1000	500	ug/L	01-FEB-10
Silver	1000	250	ug/L	01-FEB-10
Sodium	1	50000	ug/L	01-FEB-10
Thallium	1000	500	ug/L	01-FEB-10
Uranium	1000	5000	ug/L	01-FEB-10
Vanadium	1000	100	ug/L	01-FEB-10
Zinc	1000	2500	ug/L	01-FEB-10

METALS
-12-
Linear Ranges

SDG NO. 10-2122

Contract: LANL01004

Lab Code: GEL

Instrument ID OPTIMA3

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

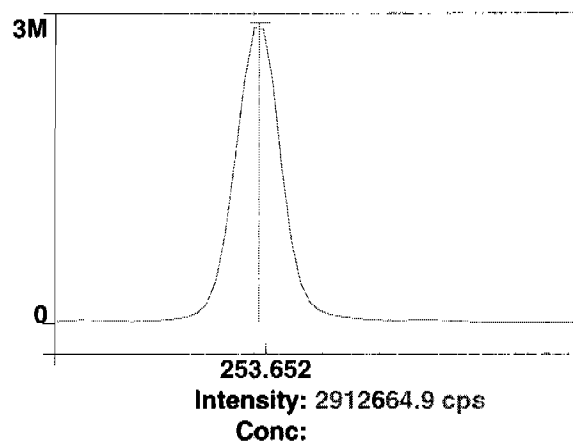
Raw Data

Method: Hg_ReAlign
Result: 041410

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



1

=====
Analysis Begun

Start Time: 3/29/2010 09:13:55

Plasma On Time: 3/29/2010 05:42:15

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\032910.sif

Batch ID:

Results Data Set: 032910A

Results Library: C:\pe\Optima3\Results\Results.mdb

=====
Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 3/29/2010 09:12:42

IEC File: 011110.iec

MSF File:

Method Description:

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

Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 3/29/2010 09:13:57

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	3017.2	3017.2	96.0 %	09:16:10
1	Y RADIAL	3442.3	3442.3	100.3 %	09:15:50
1	Al 396.153Radial†	-89.2	-93.0	[0.00] ug/L	09:16:10

1	Ca 317.933Radial†	18.9	19.7	[0.00]	ug/L	09:16:10
1	Fe 238.204 Radial†	6.4	6.7	[0.00]	ug/L	09:16:10
1	K 766.490 Radial†	2847.6	2967.2	[0.00]	ug/L	09:15:50
1	Mg 279.077 IEC†	0.2	0.2	[0.00]	ug/L	09:16:10
1	Na 589.592 Radial†	-620.4	-646.4	[0.00]	ug/L	09:15:50
1	Sr 421.552†	32.0	33.4	[0.00]	ug/L	09:15:50
1	Sc 361.383	496726.6	496726.6	100.22	%	09:17:06
1	Y 371.029	417081.1	417081.1	100.77	%	09:17:06
1	Ag 328.068†	106.4	106.2	[0.00]	ug/L	09:17:06
1	As 188.979†	-17.2	-17.1	[0.00]	ug/L	09:17:27
1	B 249.677†	-414.8	-413.9	[0.00]	ug/L	09:17:27
1	Ba 233.527†	-0.7	-0.7	[0.00]	ug/L	09:17:27
1	Be 313.107†	-3893.6	-3885.2	[0.00]	ug/L	09:17:06
1	Cd 226.502†	-203.4	-202.9	[0.00]	ug/L	09:17:27
1	Co 228.616†	-60.8	-60.7	[0.00]	ug/L	09:17:27
1	Cr 267.716†	83.5	83.3	[0.00]	ug/L	09:17:27
1	Cu 324.752†	5232.5	5221.2	[0.00]	ug/L	09:17:06
1	Mn 257.610†	426.8	425.8	[0.00]	ug/L	09:17:27
1	Mo 202.031†	8.0	8.0	[0.00]	ug/L	09:17:27
1	Ni 231.604†	82.9	82.7	[0.00]	ug/L	09:17:27
1	P 214.914†	193.5	193.1	[0.00]	ug/L	09:17:27
1	Pb 220.353†	-52.7	-52.6	[0.00]	ug/L	09:17:27
1	S 181.975 Axial†	34.8	34.7	[0.00]	ug/L	09:17:27
1	Sb 206.836†	34.6	34.5	[0.00]	ug/L	09:17:27
1	Se 196.026†	-25.8	-25.7	[0.00]	ug/L	09:17:27
1	Si 251.611†	604.7	603.4	[0.00]	ug/L	09:17:27
1	Sn 189.927†	12.6	12.6	[0.00]	ug/L	09:17:27
1	Ti 334.940†	-1366.4	-1363.5	[0.00]	ug/L	09:17:06
1	Tl 190.801†	-25.2	-25.1	[0.00]	ug/L	09:17:27
1	U 409.014†	-2702.1	-2696.2	[0.00]	ug/L	09:17:06
1	V 292.402†	-1626.1	-1622.6	[0.00]	ug/L	09:17:06
1	Zn 213.857†	653.4	652.0	[0.00]	ug/L	09:17:27
1	SiO2†	571.5	570.2	[0.00]	ug/L	09:18:22
2	Sc Radial	3185.3	3185.3	101	%	09:16:35
2	Y RADIAL	3303.8	3303.8	96.26	%	09:16:15
2	Al 396.153Radial†	-86.3	-85.1	[0.00]	ug/L	09:16:35
2	Ca 317.933Radial†	15.6	15.4	[0.00]	ug/L	09:16:35
2	Fe 238.204 Radial†	6.2	6.1	[0.00]	ug/L	09:16:35
2	K 766.490 Radial†	2862.2	2825.0	[0.00]	ug/L	09:16:15
2	Mg 279.077 IEC†	1.2	1.2	[0.00]	ug/L	09:16:35
2	Na 589.592 Radial†	-612.6	-604.7	[0.00]	ug/L	09:16:15
2	Sr 421.552†	38.2	37.7	[0.00]	ug/L	09:16:15
2	Sc 361.383	487158.5	487158.5	98.286	%	09:17:32
2	Y 371.029	404418.2	404418.2	97.709	%	09:17:32
2	Ag 328.068†	170.1	173.1	[0.00]	ug/L	09:17:32
2	As 188.979†	-25.2	-25.7	[0.00]	ug/L	09:17:52
2	B 249.677†	-388.0	-394.8	[0.00]	ug/L	09:17:52
2	Ba 233.527†	-24.6	-25.0	[0.00]	ug/L	09:17:52
2	Be 313.107†	-3753.6	-3819.0	[0.00]	ug/L	09:17:32
2	Cd 226.502†	-201.5	-205.0	[0.00]	ug/L	09:17:52
2	Co 228.616†	-51.9	-52.8	[0.00]	ug/L	09:17:52
2	Cr 267.716†	83.5	85.0	[0.00]	ug/L	09:17:52
2	Cu 324.752†	5075.9	5164.3	[0.00]	ug/L	09:17:32
2	Mn 257.610†	411.7	418.9	[0.00]	ug/L	09:17:52
2	Mo 202.031†	2.1	2.1	[0.00]	ug/L	09:17:52
2	Ni 231.604†	70.9	72.1	[0.00]	ug/L	09:17:52
2	P 214.914†	224.9	228.8	[0.00]	ug/L	09:17:52
2	Pb 220.353†	-63.3	-64.4	[0.00]	ug/L	09:17:52
2	S 181.975 Axial†	36.3	37.0	[0.00]	ug/L	09:17:52
2	Sb 206.836†	40.1	40.8	[0.00]	ug/L	09:17:52
2	Se 196.026†	-30.6	-31.2	[0.00]	ug/L	09:17:52
2	Si 251.611†	582.0	592.1	[0.00]	ug/L	09:17:52
2	Sn 189.927†	3.7	3.7	[0.00]	ug/L	09:17:52
2	Ti 334.940†	-1535.6	-1562.4	[0.00]	ug/L	09:17:32
2	Tl 190.801†	-30.3	-30.9	[0.00]	ug/L	09:17:52
2	U 409.014†	-2740.8	-2788.5	[0.00]	ug/L	09:17:32
2	V 292.402†	-1546.2	-1573.2	[0.00]	ug/L	09:17:32
2	Zn 213.857†	650.4	661.8	[0.00]	ug/L	09:17:52
2	SiO2†	621.7	632.6	[0.00]	ug/L	09:18:27
3	Sc Radial	3229.2	3229.2	103	%	09:17:00
3	Y RADIAL	3550.5	3550.5	103.4	%	09:16:40

3	Al 396.153Radial†	-87.4	-85.1	[0.00]	ug/L	09:17:00
3	Ca 317.933Radial†	19.8	19.3	[0.00]	ug/L	09:17:00
3	Fe 238.204 Radial†	6.6	6.4	[0.00]	ug/L	09:17:00
3	K 766.490 Radial†	2754.1	2681.3	[0.00]	ug/L	09:16:40
3	Mg 279.077 IEC†	3.1	3.0	[0.00]	ug/L	09:17:00
3	Na 589.592 Radial†	-587.0	-571.5	[0.00]	ug/L	09:16:40
3	Sr 421.552†	26.4	25.7	[0.00]	ug/L	09:16:40
3	Sc 361.383	503070.1	503070.1	101.50	%	09:17:57
3	Y 371.029	420204.4	420204.4	101.52	%	09:17:57
3	Ag 328.068†	83.3	82.1	[0.00]	ug/L	09:17:57
3	As 188.979†	-25.4	-25.1	[0.00]	ug/L	09:18:17
3	B 249.677†	-421.4	-415.1	[0.00]	ug/L	09:18:17
3	Ba 233.527†	2.7	2.6	[0.00]	ug/L	09:18:17
3	Be 313.107†	-4027.2	-3967.8	[0.00]	ug/L	09:17:57
3	Cd 226.502†	-203.5	-200.5	[0.00]	ug/L	09:18:17
3	Co 228.616†	-60.7	-59.8	[0.00]	ug/L	09:18:17
3	Cr 267.716†	61.3	60.4	[0.00]	ug/L	09:18:17
3	Cu 324.752†	5363.3	5284.2	[0.00]	ug/L	09:17:57
3	Mn 257.610†	427.8	421.5	[0.00]	ug/L	09:18:17
3	Mo 202.031†	6.8	6.7	[0.00]	ug/L	09:18:17
3	Ni 231.604†	76.8	75.7	[0.00]	ug/L	09:18:17
3	P 214.914†	224.4	221.0	[0.00]	ug/L	09:18:17
3	Pb 220.353†	-70.2	-69.2	[0.00]	ug/L	09:18:17
3	S 181.975 Axial†	34.8	34.3	[0.00]	ug/L	09:18:17
3	Sb 206.836†	40.7	40.1	[0.00]	ug/L	09:18:17
3	Se 196.026†	-19.9	-19.6	[0.00]	ug/L	09:18:17
3	Si 251.611†	581.6	573.1	[0.00]	ug/L	09:18:17
3	Sn 189.927†	15.9	15.6	[0.00]	ug/L	09:18:17
3	Ti 334.940†	-1393.3	-1372.7	[0.00]	ug/L	09:17:57
3	Tl 190.801†	-25.6	-25.2	[0.00]	ug/L	09:18:17
3	U 409.014†	-2775.6	-2734.7	[0.00]	ug/L	09:17:57
3	V 292.402†	-1586.8	-1563.4	[0.00]	ug/L	09:17:57
3	Zn 213.857†	652.3	642.7	[0.00]	ug/L	09:18:17
3	SiO2†	575.7	567.2	[0.00]	ug/L	09:18:32

Mean Data: S0

Analyte	Mean Corrected		RSD	Calib	
	Intensity	Std.Dev.		Conc.	Units
Sc 361.383	495651.7	8010.07	1.62%	100.00	%
Sc Radial	3143.9	111.92	3.56%	100	%
Y 371.029	413901.2	8359.71	2.02%	100.00	%
Y RADIAL	3432.2	123.66	3.60%	100.0	%
Ag 328.068†	120.5	47.14	39.14%	[0.00]	ug/L
Al 396.153Radial†	-87.7	4.54	5.17%	[0.00]	ug/L
As 188.979†	-22.6	4.77	21.10%	[0.00]	ug/L
B 249.677†	-407.9	11.43	2.80%	[0.00]	ug/L
Ba 233.527†	-7.7	15.10	195.99%	[0.00]	ug/L
Be 313.107†	-3890.7	74.54	1.92%	[0.00]	ug/L
Ca 317.933Radial†	18.1	2.39	13.19%	[0.00]	ug/L
Cd 226.502†	-202.8	2.25	1.11%	[0.00]	ug/L
Co 228.616†	-57.7	4.34	7.51%	[0.00]	ug/L
Cr 267.716†	76.3	13.73	18.00%	[0.00]	ug/L
Cu 324.752†	5223.3	59.97	1.15%	[0.00]	ug/L
Fe 238.204 Radial†	6.4	0.30	4.69%	[0.00]	ug/L
K 766.490 Radial†	2824.5	142.93	5.06%	[0.00]	ug/L
Mg 279.077 IEC†	1.5	1.42	96.33%	[0.00]	ug/L
Mn 257.610†	422.1	3.53	0.84%	[0.00]	ug/L
Mo 202.031†	5.6	3.05	54.59%	[0.00]	ug/L
Na 589.592 Radial†	-607.5	37.56	6.18%	[0.00]	ug/L
Ni 231.604†	76.8	5.39	7.02%	[0.00]	ug/L
P 214.914†	214.3	18.80	8.77%	[0.00]	ug/L
Pb 220.353†	-62.1	8.57	13.82%	[0.00]	ug/L
S 181.975 Axial†	35.3	1.44	4.06%	[0.00]	ug/L
Sb 206.836†	38.5	3.44	8.95%	[0.00]	ug/L
Se 196.026†	-25.5	5.78	22.66%	[0.00]	ug/L
Si 251.611†	589.5	15.33	2.60%	[0.00]	ug/L
Sn 189.927†	10.7	6.19	58.06%	[0.00]	ug/L
Sr 421.552†	32.3	6.10	18.92%	[0.00]	ug/L
Ti 334.940†	-1432.9	112.27	7.84%	[0.00]	ug/L
Tl 190.801†	-27.1	3.31	12.22%	[0.00]	ug/L

U 409.014†	-2739.8	46.37	1.69%	[0.00] ug/L
V 292.402†	-1586.4	31.71	2.00%	[0.00] ug/L
Zn 213.857†	652.1	9.56	1.47%	[0.00] ug/L
SiO2†	590.0	36.90	6.25%	[0.00] ug/L

Sequence No.: 2

Sample ID: S0.1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 3/29/2010 09:20:43

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	3265.6	3265.6	104 %	09:22:56
1	Y RADIAL	3542.1	3542.1	103.2 %	09:22:56
1	K 766.490 Radial†	7158.7	4067.4	[1000] ug/L	09:22:36
1	Sr 421.552†	7808.5	7485.1	[100] ug/L	09:22:56
1	Sc 361.383	551148.4	551148.4	111.20 %	09:23:53
1	Y 371.029	435796.3	435796.3	105.29 %	09:23:53
1	Ag 328.068†	13557.9	12072.3	[100] ug/L	09:23:53
1	As 188.979†	119.7	130.3	[100] ug/L	09:24:13
1	B 249.677†	2300.2	2476.5	[100] ug/L	09:23:53
1	Ba 233.527†	7860.4	7076.6	[100] ug/L	09:23:53
1	Be 313.107†	176564.8	162676.6	[100] ug/L	09:23:53
1	Cd 226.502†	4909.3	4617.7	[100] ug/L	09:24:13
1	Co 228.616†	3109.4	2854.1	[100] ug/L	09:24:13
1	Cr 267.716†	5168.0	4571.4	[100] ug/L	09:23:53
1	Cu 324.752†	26751.9	18834.9	[100] ug/L	09:23:53
1	Mn 257.610†	59325.0	52929.3	[100] ug/L	09:23:53
1	Mo 202.031†	836.5	746.7	[100] ug/L	09:24:13
1	Ni 231.604†	2435.3	2113.2	[100] ug/L	09:24:13
1	P 214.914†	775.4	483.1	[500] ug/L	09:24:13
1	Pb 220.353†	419.2	439.0	[100] ug/L	09:24:13
1	S 181.975 Axial†	128.8	80.5	[200] ug/L	09:24:13
1	Sb 206.836†	224.1	163.0	[100] ug/L	09:24:13
1	Se 196.026†	73.4	91.5	[100] ug/L	09:24:13
1	Si 251.611†	10500.9	8854.0	[500] ug/L	09:23:53
1	Sn 189.927†	336.8	292.2	[100] ug/L	09:24:13
1	Ti 334.940†	40719.2	38051.9	[100] ug/L	09:23:53
1	Tl 190.801†	169.2	179.2	[100] ug/L	09:24:13
1	U 409.014†	-534.3	2259.3	[100] ug/L	09:23:53
1	V 292.402†	6852.2	7748.6	[100] ug/L	09:23:53
1	Zn 213.857†	6968.3	5614.5	[100] ug/L	09:23:53
1	SiO2†	10375.3	8740.6	[1069.5] ug/L	09:25:09
2	Sc Radial	3294.8	3294.8	105 %	09:23:21
2	Y RADIAL	3575.6	3575.6	104.2 %	09:23:21
2	K 766.490 Radial†	6857.6	3719.0	[1000] ug/L	09:23:01
2	Sr 421.552†	7950.6	7554.2	[100] ug/L	09:23:21
2	Sc 361.383	563088.6	563088.6	113.61 %	09:24:18
2	Y 371.029	445113.0	445113.0	107.54 %	09:24:18
2	Ag 328.068†	14100.3	12291.1	[100] ug/L	09:24:18
2	As 188.979†	129.9	137.0	[100] ug/L	09:24:38
2	B 249.677†	2489.7	2599.5	[100] ug/L	09:24:18
2	Ba 233.527†	8026.3	7072.7	[100] ug/L	09:24:18
2	Be 313.107†	181475.1	163631.8	[100] ug/L	09:24:18
2	Cd 226.502†	5093.0	4685.9	[100] ug/L	09:24:38
2	Co 228.616†	3247.3	2916.1	[100] ug/L	09:24:38
2	Cr 267.716†	5365.0	4646.2	[100] ug/L	09:24:18
2	Cu 324.752†	27571.9	19046.6	[100] ug/L	09:24:18
2	Mn 257.610†	60909.4	53192.7	[100] ug/L	09:24:18
2	Mo 202.031†	874.0	763.8	[100] ug/L	09:24:38
2	Ni 231.604†	2548.9	2166.8	[100] ug/L	09:24:38
2	P 214.914†	804.9	494.2	[500] ug/L	09:24:38
2	Pb 220.353†	467.5	473.6	[100] ug/L	09:24:38
2	S 181.975 Axial†	134.8	83.3	[200] ug/L	09:24:38
2	Sb 206.836†	232.9	166.5	[100] ug/L	09:24:38
2	Se 196.026†	81.5	97.2	[100] ug/L	09:24:38
2	Si 251.611†	10785.1	8903.9	[500] ug/L	09:24:18
2	Sn 189.927†	361.4	307.5	[100] ug/L	09:24:38
2	Ti 334.940†	41990.0	38394.1	[100] ug/L	09:24:18
2	Tl 190.801†	185.9	190.7	[100] ug/L	09:24:38
2	U 409.014†	-364.3	2419.1	[100] ug/L	09:24:18

2	V 292.402†	7023.3	7768.5	[100] ug/L	09:24:18
2	Zn 213.857†	7193.5	5679.8	[100] ug/L	09:24:18
2	SiO2†	11598.7	9619.6	[1069.5] ug/L	09:25:14
3	Sc Radial	3275.8	3275.8	104 %	09:23:46
3	Y RADIAL	3554.9	3554.9	103.6 %	09:23:46
3	K 766.490 Radial†	6757.7	3661.0	[1000] ug/L	09:23:26
3	Sr 421.552†	7858.5	7509.7	[100] ug/L	09:23:46
3	Sc 361.383	634334.1	634334.1	127.98 %	09:24:44
3	Y 371.029	498601.3	498601.3	120.46 %	09:24:44
3	Ag 328.068†	15742.2	12180.1	[100] ug/L	09:24:44
3	As 188.979†	123.5	119.1	[100] ug/L	09:25:04
3	B 249.677†	2890.6	2666.6	[100] ug/L	09:24:44
3	Ba 233.527†	9190.9	7189.2	[100] ug/L	09:24:44
3	Be 313.107†	206403.2	165168.6	[100] ug/L	09:24:44
3	Cd 226.502†	4960.1	4078.5	[100] ug/L	09:25:04
3	Co 228.616†	3134.2	2506.7	[100] ug/L	09:25:04
3	Cr 267.716†	5992.7	4606.3	[100] ug/L	09:24:44
3	Cu 324.752†	31060.3	19046.4	[100] ug/L	09:24:44
3	Mn 257.610†	68856.7	53380.7	[100] ug/L	09:24:44
3	Mo 202.031†	840.4	651.1	[100] ug/L	09:25:04
3	Ni 231.604†	2489.1	1868.1	[100] ug/L	09:25:04
3	P 214.914†	787.3	400.9	[500] ug/L	09:25:04
3	Pb 220.353†	440.4	406.2	[100] ug/L	09:25:04
3	S 181.975 Axial†	127.2	64.0	[200] ug/L	09:25:04
3	Sb 206.836†	232.4	143.1	[100] ug/L	09:25:04
3	Se 196.026†	65.7	76.8	[100] ug/L	09:25:04
3	Si 251.611†	12275.6	9002.3	[500] ug/L	09:24:44
3	Sn 189.927†	343.1	257.5	[100] ug/L	09:25:04
3	Ti 334.940†	47553.7	38590.1	[100] ug/L	09:24:44
3	Tl 190.801†	184.3	171.0	[100] ug/L	09:25:04
3	U 409.014†	77.0	2800.0	[100] ug/L	09:24:44
3	V 292.402†	8211.9	8003.0	[100] ug/L	09:24:44
3	Zn 213.857†	8021.0	5615.2	[100] ug/L	09:24:44
3	SiO2†	10831.4	7873.3	[1069.5] ug/L	09:25:19

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
Sc 361.383	582857.0	44978.39	7.72%	117.59 %
Sc Radial	3278.7	14.80	0.45%	104 %
Y 371.029	459836.9	33892.67	7.37%	111.10 %
Y RADIAL	3557.5	16.89	0.47%	103.7 %
Ag 328.068†	12181.2	109.43	0.90%	[100] ug/L
As 188.979†	128.8	9.03	7.01%	[100] ug/L
B 249.677†	2580.9	96.41	3.74%	[100] ug/L
Ba 233.527†	7112.9	66.16	0.93%	[100] ug/L
Be 313.107†	163825.7	1257.25	0.77%	[100] ug/L
Cd 226.502†	4460.7	332.75	7.46%	[100] ug/L
Co 228.616†	2759.0	220.63	8.00%	[100] ug/L
Cr 267.716†	4608.0	37.43	0.81%	[100] ug/L
Cu 324.752†	18975.9	122.17	0.64%	[100] ug/L
K 766.490 Radial†	3815.8	219.78	5.76%	[1000] ug/L
Mn 257.610†	53167.6	226.75	0.43%	[100] ug/L
Mo 202.031†	720.5	60.74	8.43%	[100] ug/L
Ni 231.604†	2049.4	159.27	7.77%	[100] ug/L
P 214.914†	459.4	50.96	11.09%	[500] ug/L
Pb 220.353†	439.6	33.71	7.67%	[100] ug/L
S 181.975 Axial†	76.0	10.41	13.71%	[200] ug/L
Sb 206.836†	157.6	12.63	8.01%	[100] ug/L
Se 196.026†	88.5	10.52	11.89%	[100] ug/L
Si 251.611†	8920.1	75.45	0.85%	[500] ug/L
Sn 189.927†	285.7	25.64	8.97%	[100] ug/L
Sr 421.552†	7516.4	35.01	0.47%	[100] ug/L
Ti 334.940†	38345.4	272.35	0.71%	[100] ug/L
Tl 190.801†	180.3	9.86	5.47%	[100] ug/L
U 409.014†	2492.8	277.77	11.14%	[100] ug/L
V 292.402†	7840.0	141.46	1.80%	[100] ug/L
Zn 213.857†	5636.5	37.51	0.67%	[100] ug/L
SiO2†	8744.5	873.15	9.99%	[1069.5] ug/L

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

Autosampler Location: 3
 Date Collected: 3/29/2010 09:27:30
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.5

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	3235.2	3235.2	103 %	09:29:42
1	Y RADIAL	3480.0	3480.0	101.4 %	09:29:42
1	Al 396.153Radial†	3446.2	3436.7	[5000] ug/L	09:29:22
1	Ca 317.933Radial†	2103.5	2026.0	[5000] ug/L	09:29:42
1	K 766.490 Radial†	22497.5	19038.2	[5000] ug/L	09:29:22
1	Mg 279.077 IEC†	102.3	97.9	[5000] ug/L	09:29:42
1	Sr 421.552†	38869.0	37740.0	[500] ug/L	09:29:22
1	Sc 361.383	636574.2	636574.2	128.43 %	09:30:39
1	Y 371.029	423143.5	423143.5	102.23 %	09:30:45
1	Ag 328.068†	74994.2	58271.8	[500] ug/L	09:30:45
1	As 188.979†	780.5	630.3	[500] ug/L	09:31:05
1	B 249.677†	15451.4	12438.7	[500] ug/L	09:30:45
1	Ba 233.527†	42953.5	33452.3	[500] ug/L	09:30:45
1	Be 313.107†	1049624.8	821153.3	[500] ug/L	09:30:39
1	Cd 226.502†	27414.0	21548.0	[500] ug/L	09:30:45
1	Co 228.616†	16753.3	13102.2	[500] ug/L	09:30:45
1	Cr 267.716†	27929.4	21670.2	[500] ug/L	09:30:45
1	Cu 324.752†	125910.6	92813.7	[500] ug/L	09:30:45
1	Mn 257.610†	314440.0	244408.3	[500] ug/L	09:30:45
1	Mo 202.031†	4464.0	3470.2	[500] ug/L	09:31:05
1	Ni 231.604†	12782.7	9876.1	[500] ug/L	09:30:45
1	P 214.914†	3343.0	2388.6	[2500] ug/L	09:31:05
1	Pb 220.353†	2598.8	2085.6	[500] ug/L	09:31:05
1	S 181.975 Axial†	553.6	395.7	[1000] ug/L	09:31:05
1	Sb 206.836†	1058.8	785.9	[500] ug/L	09:31:05
1	Se 196.026†	511.5	423.8	[500] ug/L	09:31:05
1	Si 251.611†	56358.6	43292.6	[2500] ug/L	09:30:45
1	Sn 189.927†	1838.6	1420.9	[500] ug/L	09:31:05
1	Ti 334.940†	227742.7	178758.7	[500] ug/L	09:30:45
1	Tl 190.801†	1068.6	859.1	[500] ug/L	09:31:05
1	U 409.014†	8378.8	9263.7	[500] ug/L	09:30:45
1	V 292.402†	44923.0	36564.5	[500] ug/L	09:30:45
1	Zn 213.857†	35752.9	27185.9	[500] ug/L	09:30:45
1	SiO2†	55163.5	42361.6	[5347.5] ug/L	09:32:11
2	Sc Radial	3267.1	3267.1	104 %	09:30:08
2	Y RADIAL	3488.9	3488.9	101.7 %	09:30:08
2	Al 396.153Radial†	3396.0	3355.8	[5000] ug/L	09:29:48
2	Ca 317.933Radial†	2137.1	2038.4	[5000] ug/L	09:30:08
2	K 766.490 Radial†	22218.0	18555.9	[5000] ug/L	09:29:48
2	Mg 279.077 IEC†	101.3	96.1	[5000] ug/L	09:30:08
2	Sr 421.552†	38134.8	36665.0	[500] ug/L	09:29:48
2	Sc 361.383	641681.6	641681.6	129.46 %	09:31:10
2	Y 371.029	421235.9	421235.9	101.77 %	09:31:15
2	Ag 328.068†	74691.5	57573.3	[500] ug/L	09:31:15
2	As 188.979†	740.7	594.7	[500] ug/L	09:31:35
2	B 249.677†	15512.1	12389.9	[500] ug/L	09:31:15
2	Ba 233.527†	42991.2	33215.2	[500] ug/L	09:31:15
2	Be 313.107†	1057380.7	820639.2	[500] ug/L	09:31:10
2	Cd 226.502†	27432.8	21392.6	[500] ug/L	09:31:15
2	Co 228.616†	16812.9	13044.5	[500] ug/L	09:31:15
2	Cr 267.716†	27918.2	21488.5	[500] ug/L	09:31:15
2	Cu 324.752†	125496.5	91713.5	[500] ug/L	09:31:15
2	Mn 257.610†	314947.4	242851.6	[500] ug/L	09:31:15
2	Mo 202.031†	4297.7	3314.1	[500] ug/L	09:31:35
2	Ni 231.604†	12829.0	9832.6	[500] ug/L	09:31:15
2	P 214.914†	3196.7	2254.9	[2500] ug/L	09:31:35
2	Pb 220.353†	2489.3	1984.9	[500] ug/L	09:31:35
2	S 181.975 Axial†	532.3	375.8	[1000] ug/L	09:31:35
2	Sb 206.836†	1026.6	754.5	[500] ug/L	09:31:35

2	Se 196.026†	481.0	397.0	[500]	ug/L	09:31:35
2	Si 251.611†	56086.2	42732.9	[2500]	ug/L	09:31:15
2	Sn 189.927†	1750.0	1341.1	[500]	ug/L	09:31:35
2	Ti 334.940†	227397.2	177080.4	[500]	ug/L	09:31:15
2	Tl 190.801†	1022.5	816.9	[500]	ug/L	09:31:35
2	U 409.014†	8580.3	9367.4	[500]	ug/L	09:31:15
2	V 292.402†	44793.5	36186.1	[500]	ug/L	09:31:15
2	Zn 213.857†	35829.1	27023.2	[500]	ug/L	09:31:15
2	SiO2†	52597.0	40037.3	[5347.5]	ug/L	09:32:17
3	Sc Radial	3763.2	3763.2	120	%	09:30:33
3	Y RADIAL	3932.8	3932.8	114.6	%	09:30:33
3	Al 396.153Radial†	3675.2	3158.1	[5000]	ug/L	09:30:13
3	Ca 317.933Radial†	2498.1	2068.9	[5000]	ug/L	09:30:33
3	K 766.490 Radial†	23709.8	16983.6	[5000]	ug/L	09:30:13
3	Mg 279.077 IEC†	121.9	100.4	[5000]	ug/L	09:30:33
3	Sr 421.552†	41313.0	34482.3	[500]	ug/L	09:30:13
3	Sc 361.383	616302.5	616302.5	124.34	%	09:31:41
3	Y 371.029	419201.0	419201.0	101.28	%	09:31:46
3	Ag 328.068†	73927.6	59334.7	[500]	ug/L	09:31:46
3	As 188.979†	717.9	600.0	[500]	ug/L	09:32:06
3	B 249.677†	15350.0	12752.9	[500]	ug/L	09:31:46
3	Ba 233.527†	42459.2	34154.9	[500]	ug/L	09:31:46
3	Be 313.107†	1008315.0	814812.3	[500]	ug/L	09:31:41
3	Cd 226.502†	27082.6	21983.6	[500]	ug/L	09:31:46
3	Co 228.616†	16629.4	13431.7	[500]	ug/L	09:31:46
3	Cr 267.716†	27633.8	22147.8	[500]	ug/L	09:31:46
3	Cu 324.752†	123934.0	94448.7	[500]	ug/L	09:31:46
3	Mn 257.610†	311502.1	250098.7	[500]	ug/L	09:31:46
3	Mo 202.031†	4175.5	3352.5	[500]	ug/L	09:32:06
3	Ni 231.604†	12690.8	10129.5	[500]	ug/L	09:31:46
3	P 214.914†	3061.4	2247.8	[2500]	ug/L	09:32:06
3	Pb 220.353†	2394.6	1987.9	[500]	ug/L	09:32:06
3	S 181.975 Axial†	510.3	375.1	[1000]	ug/L	09:32:06
3	Sb 206.836†	1000.0	765.7	[500]	ug/L	09:32:06
3	Se 196.026†	465.0	399.4	[500]	ug/L	09:32:06
3	Si 251.611†	55288.3	43875.3	[2500]	ug/L	09:31:46
3	Sn 189.927†	1690.4	1348.8	[500]	ug/L	09:32:06
3	Ti 334.940†	224663.6	182115.1	[500]	ug/L	09:31:46
3	Tl 190.801†	984.9	819.2	[500]	ug/L	09:32:06
3	U 409.014†	8023.0	9192.2	[500]	ug/L	09:31:46
3	V 292.402†	44126.6	37074.6	[500]	ug/L	09:31:46
3	Zn 213.857†	35373.0	27796.1	[500]	ug/L	09:31:46
3	SiO2†	56628.7	44952.7	[5347.5]	ug/L	09:32:22

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	631519.4	13423.41	2.13%	127.41 %
Sc Radial	3421.8	296.06	8.65%	109 %
Y 371.029	421193.5	1971.57	0.47%	101.76 %
Y RADIAL	3633.9	258.88	7.12%	105.9 %
Ag 328.068†	58393.2	886.97	1.52%	[500] ug/L
Al 396.153Radial†	3316.9	143.30	4.32%	[5000] ug/L
As 188.979†	608.3	19.23	3.16%	[500] ug/L
B 249.677†	12527.2	197.00	1.57%	[500] ug/L
Ba 233.527†	33607.5	488.68	1.45%	[500] ug/L
Be 313.107†	818868.3	3521.96	0.43%	[500] ug/L
Ca 317.933Radial†	2044.4	22.06	1.08%	[5000] ug/L
Cd 226.502†	21641.4	306.35	1.42%	[500] ug/L
Co 228.616†	13192.8	208.89	1.58%	[500] ug/L
Cr 267.716†	21768.8	340.55	1.56%	[500] ug/L
Cu 324.752†	92992.0	1376.29	1.48%	[500] ug/L
K 766.490 Radial†	18192.6	1074.45	5.91%	[5000] ug/L
Mg 279.077 IEC†	98.1	2.16	2.20%	[5000] ug/L
Mn 257.610†	245786.2	3814.97	1.55%	[500] ug/L
Mo 202.031†	3378.9	81.35	2.41%	[500] ug/L
Ni 231.604†	9946.1	160.36	1.61%	[500] ug/L
P 214.914†	2297.1	79.34	3.45%	[2500] ug/L
Pb 220.353†	2019.5	57.27	2.84%	[500] ug/L
S 181.975 Axial†	382.2	11.70	3.06%	[1000] ug/L

Sb 206.836†	768.7	15.91	2.07%	[500] ug/L
Se 196.026†	406.7	14.79	3.64%	[500] ug/L
Si 251.611†	43300.3	571.22	1.32%	[2500] ug/L
Sn 189.927†	1370.3	44.02	3.21%	[500] ug/L
Sr 421.552†	36295.8	1659.97	4.57%	[500] ug/L
Ti 334.940†	179318.1	2563.53	1.43%	[500] ug/L
Tl 190.801†	831.7	23.75	2.86%	[500] ug/L
U 409.014†	9274.4	88.13	0.95%	[500] ug/L
V 292.402†	36608.4	445.87	1.22%	[500] ug/L
Zn 213.857†	27335.1	407.45	1.49%	[500] ug/L
SiO2†	42450.5	2458.91	5.79%	[5347.5] ug/L

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

Autosampler Location: 4
 Date Collected: 3/29/2010 09:34:32
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Analysis Time
1	Sc Radial	3364.5	3364.5	107 %		09:36:46
1	Y RADIAL	3476.6	3476.6	101.3 %		09:36:46
1	Al 396.153Radial†	8120.4	7675.8	[10000] ug/L		09:36:26
1	Ca 317.933Radial†	4312.4	4011.6	[10000] ug/L		09:36:46
1	Fe 238.204 Radial†	673.1	622.6	[10000] ug/L		09:36:46
1	K 766.490 Radial†	48835.1	42809.2	[10000] ug/L		09:36:26
1	Mg 279.077 IEC†	211.0	195.7	[10000] ug/L		09:36:46
1	Na 589.592 Radial†	18811.2	18185.6	[10000] ug/L		09:36:26
1	Sr 421.552†	90258.1	84308.8	[1000] ug/L		09:36:26
1	Sc 361.383	563290.6	563290.6	113.65 %		09:37:45
1	Y 371.029	440412.0	440412.0	106.41 %		09:37:45
1	Ag 328.068†	137841.1	121168.9	[1000] ug/L		09:37:45
1	As 188.979†	1525.2	1364.7	[1000] ug/L		09:38:05
1	B 249.677†	28895.2	25833.5	[1000] ug/L		09:37:45
1	Ba 233.527†	79339.2	69820.0	[1000] ug/L		09:37:45
1	Be 313.107†	1826777.2	1611311.7	[1000] ug/L		09:37:45
1	Cd 226.502†	50352.5	44509.1	[1000] ug/L		09:37:45
1	Co 228.616†	32586.1	28731.0	[1000] ug/L		09:38:05
1	Cr 267.716†	51568.7	45300.2	[1000] ug/L		09:37:45
1	Cu 324.752†	228564.6	195895.7	[1000] ug/L		09:37:45
1	Mn 257.610†	588643.9	517538.5	[1000] ug/L		09:37:45
1	Mo 202.031†	8649.6	7605.4	[1000] ug/L		09:38:05
1	Ni 231.604†	24913.3	21845.0	[1000] ug/L		09:38:05
1	P 214.914†	6214.1	5253.6	[5000] ug/L		09:38:05
1	Pb 220.353†	5050.7	4506.3	[1000] ug/L		09:38:05
1	S 181.975 Axial†	1020.8	862.9	[2000] ug/L		09:38:05
1	Sb 206.836†	2034.7	1751.9	[1000] ug/L		09:38:05
1	Se 196.026†	1023.3	926.0	[1000] ug/L		09:38:05
1	Si 251.611†	102309.6	89434.9	[5000] ug/L		09:37:45
1	Sn 189.927†	3523.9	3090.1	[1000] ug/L		09:38:05
1	Ti 334.940†	429318.0	379199.1	[1000] ug/L		09:37:45
1	Tl 190.801†	2071.2	1849.6	[1000] ug/L		09:38:05
1	U 409.014†	17415.5	18064.1	[1000] ug/L		09:37:45
1	V 292.402†	84447.5	75893.6	[1000] ug/L		09:37:45
1	Zn 213.857†	65042.3	56580.0	[1000] ug/L		09:37:45
1	SiO2†	106599.1	93208.9	[10695] ug/L		09:39:05
2	Sc Radial	3461.6	3461.6	110 %		09:37:11
2	Y RADIAL	3534.2	3534.2	103.0 %		09:37:11
2	Al 396.153Radial†	7346.0	6759.5	[10000] ug/L		09:36:51
2	Ca 317.933Radial†	4378.6	3958.6	[10000] ug/L		09:37:11
2	Fe 238.204 Radial†	683.3	614.2	[10000] ug/L		09:37:11
2	K 766.490 Radial†	44139.0	37263.4	[10000] ug/L		09:36:51
2	Mg 279.077 IEC†	219.0	197.4	[10000] ug/L		09:37:11
2	Na 589.592 Radial†	16849.8	15910.8	[10000] ug/L		09:36:51
2	Sr 421.552†	80892.6	73435.9	[1000] ug/L		09:36:51
2	Sc 361.383	588533.5	588533.5	118.74 %		09:38:12
2	Y 371.029	459637.6	459637.6	111.05 %		09:38:12
2	Ag 328.068†	144363.7	121459.9	[1000] ug/L		09:38:12
2	As 188.979†	1550.1	1328.1	[1000] ug/L		09:38:33
2	B 249.677†	30581.0	26162.7	[1000] ug/L		09:38:12
2	Ba 233.527†	83160.8	70044.1	[1000] ug/L		09:38:12
2	Be 313.107†	1919154.7	1620166.2	[1000] ug/L		09:38:12
2	Cd 226.502†	52993.3	44832.8	[1000] ug/L		09:38:12
2	Co 228.616†	32980.2	27833.0	[1000] ug/L		09:38:33
2	Cr 267.716†	54087.9	45475.6	[1000] ug/L		09:38:12
2	Cu 324.752†	239916.1	196829.5	[1000] ug/L		09:38:12
2	Mn 257.610†	617549.1	519666.1	[1000] ug/L		09:38:12
2	Mo 202.031†	8729.4	7346.2	[1000] ug/L		09:38:33
2	Ni 231.604†	25167.7	21119.0	[1000] ug/L		09:38:33

2	P 214.914†	6323.7	5111.4	[5000]	ug/L	09:38:33
2	Pb 220.353†	5142.8	4393.2	[1000]	ug/L	09:38:33
2	S 181.975 Axial†	1044.3	844.2	[2000]	ug/L	09:38:33
2	Sb 206.836†	2061.5	1697.7	[1000]	ug/L	09:38:33
2	Se 196.026†	1025.2	888.9	[1000]	ug/L	09:38:33
2	Si 251.611†	107671.5	90089.4	[5000]	ug/L	09:38:12
2	Sn 189.927†	3576.1	3001.1	[1000]	ug/L	09:38:33
2	Ti 334.940†	449728.3	380185.5	[1000]	ug/L	09:38:12
2	Tl 190.801†	2114.7	1808.0	[1000]	ug/L	09:38:33
2	U 409.014†	18270.7	18127.0	[1000]	ug/L	09:38:12
2	V 292.402†	88575.5	76183.0	[1000]	ug/L	09:38:12
2	Zn 213.857†	68278.7	56850.9	[1000]	ug/L	09:38:12
2	SiO2†	109366.8	91516.7	[10695]	ug/L	09:39:10
3	Sc Radial	3333.3	3333.3	106	%	09:37:36
3	Y RADIAL	3453.3	3453.3	100.6	%	09:37:36
3	Al 396.153Radial†	7931.0	7568.1	[10000]	ug/L	09:37:16
3	Ca 317.933Radial†	4261.0	4000.8	[10000]	ug/L	09:37:36
3	Fe 238.204 Radial†	666.9	622.6	[10000]	ug/L	09:37:36
3	K 766.490 Radial†	47726.2	42190.0	[10000]	ug/L	09:37:16
3	Mg 279.077 IEC†	210.7	197.2	[10000]	ug/L	09:37:36
3	Na 589.592 Radial†	18137.1	17714.1	[10000]	ug/L	09:37:16
3	Sr 421.552†	87497.0	82493.4	[1000]	ug/L	09:37:16
3	Sc 361.383	627115.4	627115.4	126.52	%	09:38:40
3	Y 371.029	488050.9	488050.9	117.91	%	09:38:40
3	Ag 328.068†	153913.1	121527.5	[1000]	ug/L	09:38:40
3	As 188.979†	1506.4	1213.2	[1000]	ug/L	09:39:00
3	B 249.677†	32751.2	26293.4	[1000]	ug/L	09:38:40
3	Ba 233.527†	88460.6	69924.1	[1000]	ug/L	09:38:40
3	Be 313.107†	2047191.8	1621924.7	[1000]	ug/L	09:38:40
3	Cd 226.502†	56739.5	45047.9	[1000]	ug/L	09:38:40
3	Co 228.616†	32351.7	25627.4	[1000]	ug/L	09:39:00
3	Cr 267.716†	57575.7	45429.7	[1000]	ug/L	09:38:40
3	Cu 324.752†	257083.3	197967.0	[1000]	ug/L	09:38:40
3	Mn 257.610†	658562.3	520084.2	[1000]	ug/L	09:38:40
3	Mo 202.031†	8549.1	6751.3	[1000]	ug/L	09:39:00
3	Ni 231.604†	24686.7	19434.7	[1000]	ug/L	09:39:00
3	P 214.914†	6154.4	4649.9	[5000]	ug/L	09:39:00
3	Pb 220.353†	5025.4	4034.0	[1000]	ug/L	09:39:00
3	S 181.975 Axial†	1022.0	772.5	[2000]	ug/L	09:39:00
3	Sb 206.836†	2013.4	1552.8	[1000]	ug/L	09:39:00
3	Se 196.026†	999.6	815.5	[1000]	ug/L	09:39:00
3	Si 251.611†	115368.3	90593.8	[5000]	ug/L	09:38:40
3	Sn 189.927†	3501.3	2756.6	[1000]	ug/L	09:39:00
3	Ti 334.940†	479854.0	380693.9	[1000]	ug/L	09:38:40
3	Tl 190.801†	2045.4	1643.7	[1000]	ug/L	09:39:00
3	U 409.014†	19399.2	18072.3	[1000]	ug/L	09:38:40
3	V 292.402†	94492.8	76270.5	[1000]	ug/L	09:38:40
3	Zn 213.857†	73047.2	57082.0	[1000]	ug/L	09:38:40
3	SiO2†	111033.7	87167.5	[10695]	ug/L	09:39:16

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	592979.9	32143.88	5.42%	119.64	%
Sc Radial	3386.4	66.93	1.98%	108	%
Y 371.029	462700.1	23966.65	5.18%	111.79	%
Y RADIAL	3488.0	41.67	1.19%	101.6	%
Ag 328.068†	121385.4	190.53	0.16%	[1000]	ug/L
Al 396.153Radial†	7334.5	500.85	6.83%	[10000]	ug/L
As 188.979†	1302.0	79.01	6.07%	[1000]	ug/L
B 249.677†	26096.5	237.02	0.91%	[1000]	ug/L
Ba 233.527†	69929.4	112.13	0.16%	[1000]	ug/L
Be 313.107†	1617800.9	5688.11	0.35%	[1000]	ug/L
Ca 317.933Radial†	3990.3	27.98	0.70%	[10000]	ug/L
Cd 226.502†	44796.6	271.19	0.61%	[1000]	ug/L
Co 228.616†	27397.2	1597.02	5.83%	[1000]	ug/L
Cr 267.716†	45401.8	90.97	0.20%	[1000]	ug/L
Cu 324.752†	196897.4	1037.34	0.53%	[1000]	ug/L
Fe 238.204 Radial†	619.8	4.86	0.78%	[10000]	ug/L
K 766.490 Radial†	40754.2	3038.95	7.46%	[10000]	ug/L

Mg 279.077 IEC†	196.8	0.94	0.48%	[10000]	ug/L
Mn 257.610†	519096.3	1365.18	0.26%	[1000]	ug/L
Mo 202.031†	7234.3	437.90	6.05%	[1000]	ug/L
Na 589.592 Radial†	17270.2	1200.62	6.95%	[10000]	ug/L
Ni 231.604†	20799.5	1236.46	5.94%	[1000]	ug/L
P 214.914†	5005.0	315.59	6.31%	[5000]	ug/L
Pb 220.353†	4311.2	246.62	5.72%	[1000]	ug/L
S 181.975 Axial†	826.5	47.73	5.77%	[2000]	ug/L
Sb 206.836†	1667.5	102.91	6.17%	[1000]	ug/L
Se 196.026†	876.8	56.20	6.41%	[1000]	ug/L
Si 251.611†	90039.4	581.07	0.65%	[5000]	ug/L
Sn 189.927†	2949.3	172.66	5.85%	[1000]	ug/L
Sr 421.552†	80079.4	5824.61	7.27%	[1000]	ug/L
Ti 334.940†	380026.2	760.03	0.20%	[1000]	ug/L
Tl 190.801†	1767.1	108.89	6.16%	[1000]	ug/L
U 409.014†	18087.8	34.20	0.19%	[1000]	ug/L
V 292.402†	76115.7	197.26	0.26%	[1000]	ug/L
Zn 213.857†	56837.6	251.27	0.44%	[1000]	ug/L
SiO2†	90631.0	3116.58	3.44%	[10695]	ug/L

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

Autosampler Location: 5
 Date Collected: 3/29/2010 09:41:27
 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	3119.1	3119.1	99.2 %		09:43:40
1	Y RADIAL	3374.7	3374.7	98.32 %		09:43:40
1	Al 396.153Radial†	39364.7	39765.3	[50000] ug/L		09:43:20
1	Ca 317.933Radial†	22065.0	22222.3	[50000] ug/L		09:43:20
1	Fe 238.204 Radial†	1217.7	1221.0	[20000] ug/L		09:43:40
1	Mg 279.077 IEC†	939.2	945.2	[50000] ug/L		09:43:40
1	Na 589.592 Radial†	36021.8	36915.7	[20000] ug/L		09:43:20
1	Sc 361.383	591723.7	591723.7	119.38 %		09:44:37
1	Y 371.029	460715.0	460715.0	111.31 %		09:44:37
2	Sc Radial	3179.5	3179.5	101 %		09:44:05
2	Y RADIAL	3442.6	3442.6	100.3 %		09:44:05
2	Al 396.153Radial†	38451.3	38109.0	[50000] ug/L		09:43:45
2	Ca 317.933Radial†	21515.5	21256.7	[50000] ug/L		09:43:45
2	Fe 238.204 Radial†	1257.1	1236.6	[20000] ug/L		09:44:05
2	Mg 279.077 IEC†	973.4	961.1	[50000] ug/L		09:44:05
2	Na 589.592 Radial†	35218.9	35432.5	[20000] ug/L		09:43:45
2	Sc 361.383	570908.7	570908.7	115.18 %		09:44:42
2	Y 371.029	444724.5	444724.5	107.45 %		09:44:42
3	Sc Radial	3140.3	3140.3	99.9 %		09:44:30
3	Y RADIAL	3376.6	3376.6	98.38 %		09:44:30
3	Al 396.153Radial†	36366.4	36495.5	[50000] ug/L		09:44:10
3	Ca 317.933Radial†	20237.9	20242.8	[50000] ug/L		09:44:10
3	Fe 238.204 Radial†	1204.4	1199.3	[20000] ug/L		09:44:30
3	Mg 279.077 IEC†	929.7	929.3	[50000] ug/L		09:44:30
3	Na 589.592 Radial†	32913.6	33558.5	[20000] ug/L		09:44:10
3	Sc 361.383	625534.8	625534.8	126.20 %		09:44:47
3	Y 371.029	485498.0	485498.0	117.30 %		09:44:47

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sc 361.383	596055.7	27569.52	4.63%	120.26 %	
Sc Radial	3146.3	30.62	0.97%	100 %	
Y 371.029	463645.8	20544.18	4.43%	112.02 %	
Y RADIAL	3398.0	38.66	1.14%	99.00 %	
Al 396.153Radial†	38123.3	1634.99	4.29%	[50000] ug/L	
Ca 317.933Radial†	21240.6	989.87	4.66%	[50000] ug/L	
Fe 238.204 Radial†	1219.0	18.71	1.53%	[20000] ug/L	
Mg 279.077 IEC†	945.2	15.89	1.68%	[50000] ug/L	
Na 589.592 Radial†	35302.2	1682.37	4.77%	[20000] ug/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	120.5	0.00000	0.999884	
Al 396.153Radial	3	Lin Thru 0	0.0	0.7604	0.00000	0.999895	
As 188.979	3	Lin Thru 0	0.0	1.285	0.00000	0.999650	
B 249.677	3	Lin Thru 0	0.0	25.89	0.00000	0.999871	
Ba 233.527	3	Lin Thru 0	0.0	69.40	0.00000	0.999876	
Be 313.107	3	Lin Thru 0	0.0	1622	0.00000	0.999988	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.4237	0.00000	0.999926	
Cd 226.502	3	Lin Thru 0	0.0	44.49	0.00000	0.999908	
Co 228.616	3	Lin Thru 0	0.0	27.20	0.00000	0.999889	
Cr 267.716	3	Lin Thru 0	0.0	45.04	0.00000	0.999862	
Cu 324.752	3	Lin Thru 0	0.0	194.7	0.00000	0.999748	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0612	0.00000	0.999977	
K 766.490 Radial	3	Lin Thru 0	0.0	3.987	0.00000	0.999041	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0189	0.00000	0.999963
Mn 257.610	3	Lin Thru 0	0.0	513.7	0.00000	0.999767
Mo 202.031	3	Lin Thru 0	0.0	7.140	0.00000	0.999646
Na 589.592 Radia	2	Lin Thru 0	0.0	1.757	0.00000	0.999962
Ni 231.604	3	Lin Thru 0	0.0	20.62	0.00000	0.999846
P 214.914	3	Lin Thru 0	0.0	0.9840	0.00000	0.999430
Pb 220.353	3	Lin Thru 0	0.0	4.258	0.00000	0.999671
S 181.975 Axial	3	Lin Thru 0	0.0	0.4068	0.00000	0.999521
Sb 206.836	3	Lin Thru 0	0.0	1.641	0.00000	0.999495
Se 196.026	3	Lin Thru 0	0.0	0.8643	0.00000	0.999572
Si 251.611	3	Lin Thru 0	0.0	17.87	0.00000	0.999882
Sn 189.927	3	Lin Thru 0	0.0	2.907	0.00000	0.999590
Sr 421.552	3	Lin Thru 0	0.0	78.55	0.00000	0.999272
Ti 334.940	3	Lin Thru 0	0.0	375.8	0.00000	0.999741
Tl 190.801	3	Lin Thru 0	0.0	1.747	0.00000	0.999717
U 409.014	3	Lin Thru 0	0.0	18.23	0.00000	0.999411
V 292.402	3	Lin Thru 0	0.0	75.56	0.00000	0.999878
Zn 213.857	3	Lin Thru 0	0.0	56.40	0.00000	0.999883
SiO2	3	Lin Thru 0	0.0	8.365	0.00000	0.999673

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 3/29/2010 09:46:59

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	3110.7	3110.7	98.9 %		09:49:11
1	Y RADIAL	3636.7	3636.7	106.0 %		09:48:51
1	Al 396.153Radial†	3753.9	3881.7	5081.5 ug/L	5081.5 ppb	09:48:51
1	Ca 317.933Radial†	2026.6	2030.1	4791.6 ug/L	4791.6 ppb	09:49:11
1	Fe 238.204 Radial†	312.0	308.9	5066.6 ug/L	5066.6 ppb	09:49:11
1	K 766.490 Radial†	13283.0	10600.1	2655.6 ug/L	2655.6 ppb	09:48:51
1	Mg 279.077 IEC†	97.9	97.4	5144.4 ug/L	5144.4 ppb	09:49:11
1	Na 589.592 Radial†	3585.3	4231.1	2407.5 ug/L	2407.5 ppb	09:48:51
1	Sr 421.552†	42339.7	42758.8	544.28 ug/L	544.28 ppb	09:48:51
1	Sc 361.383	660693.0	660693.0	133.30 %		09:50:09
1	Y 371.029	515590.6	515590.6	124.57 %		09:50:09
1	Ag 328.068†	40447.7	30223.4	253.96 ug/L	253.96 ppb	09:50:09
1	As 188.979†	727.9	568.7	446.83 ug/L	446.83 ppb	09:50:29
1	B 249.677†	17812.1	13770.6	529.65 ug/L	529.65 ppb	09:50:09
1	Ba 233.527†	47544.5	35675.5	515.31 ug/L	515.31 ppb	09:50:09
1	Be 313.107†	550128.3	416596.8	257.96 ug/L	257.96 ppb	09:50:09
1	Cd 226.502†	29704.6	22487.2	505.28 ug/L	505.28 ppb	09:50:09
1	Co 228.616†	18566.0	13985.9	514.28 ug/L	514.28 ppb	09:50:09
1	Cr 267.716†	29751.5	22243.3	494.92 ug/L	494.92 ppb	09:50:09
1	Cu 324.752†	140636.5	100282.2	515.10 ug/L	515.10 ppb	09:50:09
1	Mn 257.610†	346641.4	259628.2	505.66 ug/L	505.66 ppb	09:50:09
1	Mo 202.031†	4571.3	3423.8	480.00 ug/L	480.00 ppb	09:50:29
1	Ni 231.604†	13539.7	10080.6	488.64 ug/L	488.64 ppb	09:50:09
1	P 214.914†	3280.9	2247.0	2182.8 ug/L	2182.8 ppb	09:50:29
1	Pb 220.353†	2519.2	1952.0	460.20 ug/L	460.20 ppb	09:50:29
1	S 181.975 Axial†	1250.5	902.8	2218.2 ug/L	2218.2 ppb	09:50:29
1	Sb 206.836†	1037.1	739.6	467.94 ug/L	467.94 ppb	09:50:29
1	Se 196.026†	2665.5	2025.1	2359.4 ug/L	2359.4 ppb	09:50:29
1	Si 251.611†	118688.6	88450.6	4943.7 ug/L	4943.7 ppb	09:50:09
1	Sn 189.927†	1864.1	1387.8	479.00 ug/L	479.00 ppb	09:50:29
1	Ti 334.940†	242702.3	183508.0	488.12 ug/L	488.12 ppb	09:50:09
1	Tl 190.801†	1078.9	836.5	482.12 ug/L	482.12 ppb	09:50:29
1	U 409.014†	9067.1	9541.9	521.64 ug/L	521.64 ppb	09:50:09
1	V 292.402†	48399.8	37895.9	507.99 ug/L	507.99 ppb	09:50:09
1	Zn 213.857†	38699.9	28380.5	498.60 ug/L	498.60 ppb	09:50:09
1	SiO2†	108490.9	80799.9	9645.7 ug/L	9645.7 ppb	09:51:27
2	Sc Radial	3369.7	3369.7	107 %		09:49:37
2	Y RADIAL	3441.9	3441.9	100.3 %		09:49:17
2	Al 396.153Radial†	3561.9	3410.9	4460.1 ug/L	4460.1 ppb	09:49:17
2	Ca 317.933Radial†	2188.2	2023.4	4775.9 ug/L	4775.9 ppb	09:49:37
2	Fe 238.204 Radial†	336.1	307.2	5038.6 ug/L	5038.6 ppb	09:49:37
2	K 766.490 Radial†	12750.0	9071.0	2272.1 ug/L	2272.1 ppb	09:49:17
2	Mg 279.077 IEC†	106.4	97.8	5162.7 ug/L	5162.7 ppb	09:49:37
2	Na 589.592 Radial†	3396.1	3776.0	2148.5 ug/L	2148.5 ppb	09:49:17
2	Sr 421.552†	40238.5	37509.3	477.46 ug/L	477.46 ppb	09:49:17
2	Sc 361.383	610370.8	610370.8	123.15 %		09:50:35
2	Y 371.029	477490.6	477490.6	115.36 %		09:50:35
2	Ag 328.068†	37335.0	30197.4	253.73 ug/L	253.73 ppb	09:50:35
2	As 188.979†	734.5	619.1	485.92 ug/L	485.92 ppb	09:50:55
2	B 249.677†	16218.2	13578.0	522.22 ug/L	522.22 ppb	09:50:35
2	Ba 233.527†	43880.5	35640.9	514.81 ug/L	514.81 ppb	09:50:35
2	Be 313.107†	503671.0	412896.8	255.68 ug/L	255.68 ppb	09:50:35
2	Cd 226.502†	27313.1	22382.5	502.93 ug/L	502.93 ppb	09:50:35
2	Co 228.616†	17056.2	13908.2	511.53 ug/L	511.53 ppb	09:50:35
2	Cr 267.716†	27393.5	22168.6	493.26 ug/L	493.26 ppb	09:50:35
2	Cu 324.752†	129420.0	99872.2	513.00 ug/L	513.00 ppb	09:50:35
2	Mn 257.610†	319798.5	259270.4	504.96 ug/L	504.96 ppb	09:50:35
2	Mo 202.031†	4622.0	3747.7	525.37 ug/L	525.37 ppb	09:50:55
2	Ni 231.604†	12542.7	10108.4	489.99 ug/L	489.99 ppb	09:50:35

2	P 214.914†	3327.8	2488.0	2428.4 ug/L	2428.4 ppb	09:50:55
2	Pb 220.353†	2551.7	2134.1	502.94 ug/L	502.94 ppb	09:50:55
2	S 181.975 Axial†	1272.1	997.7	2451.4 ug/L	2451.4 ppb	09:50:55
2	Sb 206.836†	1040.1	806.2	510.15 ug/L	510.15 ppb	09:50:55
2	Se 196.026†	2715.3	2230.4	2596.8 ug/L	2596.8 ppb	09:50:55
2	Si 251.611†	108782.4	87747.2	4903.8 ug/L	4903.8 ppb	09:50:35
2	Sn 189.927†	1879.8	1515.8	523.05 ug/L	523.05 ppb	09:50:55
2	Ti 334.940†	223936.5	183280.5	487.51 ug/L	487.51 ppb	09:50:35
2	Tl 190.801†	1087.6	910.3	524.38 ug/L	524.38 ppb	09:50:55
2	U 409.014†	8378.7	9543.7	521.74 ug/L	521.74 ppb	09:50:35
2	V 292.402†	44478.9	37705.5	506.11 ug/L	506.11 ppb	09:50:35
2	Zn 213.857†	35610.9	28265.7	496.56 ug/L	496.56 ppb	09:50:35
2	SiO2†	120341.4	97133.3	11597 ug/L	11597 ppb	09:51:32
3	Sc Radial	3067.6	3067.6	97.6 %		09:50:02
3	Y RADIAL	3705.2	3705.2	108.0 %		09:49:42
3	Al 396.153Radial†	3819.2	4001.9	5237.3 ug/L	5237.3 ppb	09:49:42
3	Ca 317.933Radial†	1987.3	2018.6	4764.4 ug/L	4764.4 ppb	09:50:02
3	Fe 238.204 Radial†	304.3	305.5	5010.7 ug/L	5010.7 ppb	09:50:02
3	K 766.490 Radial†	13374.4	10882.5	2726.3 ug/L	2726.3 ppb	09:49:42
3	Mg 279.077 IEC†	95.5	96.4	5089.8 ug/L	5089.8 ppb	09:50:02
3	Na 589.592 Radial†	3699.7	4399.2	2503.1 ug/L	2503.1 ppb	09:49:42
3	Sr 421.552†	43604.7	44656.7	568.44 ug/L	568.44 ppb	09:49:42
3	Sc 361.383	600246.6	600246.6	121.10 %		09:51:01
3	Y 371.029	470107.7	470107.7	113.58 %		09:51:01
3	Ag 328.068†	36803.1	30269.6	254.32 ug/L	254.32 ppb	09:51:01
3	As 188.979†	724.2	620.6	487.12 ug/L	487.12 ppb	09:51:21
3	B 249.677†	15957.5	13584.8	522.50 ug/L	522.50 ppb	09:51:01
3	Ba 233.527†	43067.8	35570.8	513.80 ug/L	513.80 ppb	09:51:01
3	Be 313.107†	493182.2	411134.3	254.59 ug/L	254.59 ppb	09:51:01
3	Cd 226.502†	26787.4	22322.4	501.58 ug/L	501.58 ppb	09:51:01
3	Co 228.616†	16703.5	13850.6	509.41 ug/L	509.41 ppb	09:51:01
3	Cr 267.716†	26923.1	22155.4	492.96 ug/L	492.96 ppb	09:51:01
3	Cu 324.752†	127171.5	99788.2	512.57 ug/L	512.57 ppb	09:51:01
3	Mn 257.610†	313739.7	258647.5	503.75 ug/L	503.75 ppb	09:51:01
3	Mo 202.031†	4540.2	3743.5	524.78 ug/L	524.78 ppb	09:51:21
3	Ni 231.604†	12253.1	10041.1	486.72 ug/L	486.72 ppb	09:51:01
3	P 214.914†	3267.8	2484.1	2424.7 ug/L	2424.7 ppb	09:51:21
3	Pb 220.353†	2512.2	2136.5	503.69 ug/L	503.69 ppb	09:51:21
3	S 181.975 Axial†	1246.9	994.3	2443.1 ug/L	2443.1 ppb	09:51:21
3	Sb 206.836†	1028.6	810.9	512.99 ug/L	512.99 ppb	09:51:21
3	Se 196.026†	2661.3	2223.1	2588.4 ug/L	2588.4 ppb	09:51:21
3	Si 251.611†	106434.5	87298.4	4878.7 ug/L	4878.7 ppb	09:51:01
3	Sn 189.927†	1846.1	1513.7	522.33 ug/L	522.33 ppb	09:51:21
3	Ti 334.940†	219695.4	182845.7	486.36 ug/L	486.36 ppb	09:51:01
3	Tl 190.801†	1062.9	904.8	521.23 ug/L	521.23 ppb	09:51:21
3	U 409.014†	8124.0	9448.2	516.50 ug/L	516.50 ppb	09:51:01
3	V 292.402†	43727.9	37694.6	505.95 ug/L	505.95 ppb	09:51:01
3	Zn 213.857†	34866.8	28139.0	494.34 ug/L	494.34 ppb	09:51:01
3	SiO2†	114142.1	93662.5	11182 ug/L	11182 ppb	09:51:37

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	623770.1	125.85 %	6.532			5.19%
Sc Radial	3182.7	101 %	5.2			5.13%
Y 371.029	487729.6	117.84 %	5.897			5.00%
Y RADIAL	3594.6	104.7 %	3.98			3.80%
Ag 328.068†	30230.1	254.01 ug/L	0.299	254.01 ppb	0.299	0.12%
QC value within limits for Ag 328.068 Recovery = 101.60%						
Al 396.153Radial†	3764.8	4926.3 ug/L	411.15	4926.3 ppb	411.15	8.35%
QC value within limits for Al 396.153Radial Recovery = 98.53%						
As 188.979†	602.8	473.29 ug/L	22.921	473.29 ppb	22.921	4.84%
QC value within limits for As 188.979 Recovery = 94.66%						
B 249.677†	13644.5	524.79 ug/L	4.212	524.79 ppb	4.212	0.80%
QC value within limits for B 249.677 Recovery = 104.96%						
Ba 233.527†	35629.1	514.64 ug/L	0.772	514.64 ppb	0.772	0.15%
QC value within limits for Ba 233.527 Recovery = 102.93%						
Be 313.107†	413542.6	256.08 ug/L	1.721	256.08 ppb	1.721	0.67%
QC value within limits for Be 313.107 Recovery = 102.43%						
Ca 317.933Radial†	2024.0	4777.3 ug/L	13.64	4777.3 ppb	13.64	0.29%

QC value within limits for Ca 317.933 Radial Recovery = 95.55%

Cd 226.502†	22397.3	503.26 ug/L	1.872	503.26 ppb	1.872	0.37%
QC value within limits for Cd 226.502 Recovery = 100.65%						
Co 228.616†	13914.9	511.74 ug/L	2.440	511.74 ppb	2.440	0.48%
QC value within limits for Co 228.616 Recovery = 102.35%						
Cr 267.716†	22189.1	493.71 ug/L	1.057	493.71 ppb	1.057	0.21%
QC value within limits for Cr 267.716 Recovery = 98.74%						
Cu 324.752†	99980.9	513.55 ug/L	1.358	513.55 ppb	1.358	0.26%
QC value within limits for Cu 324.752 Recovery = 102.71%						
Fe 238.204 Radial†	307.2	5038.6 ug/L	27.98	5038.6 ppb	27.98	0.56%
QC value within limits for Fe 238.204 Radial Recovery = 100.77%						
K 766.490 Radial†	10184.5	2551.3 ug/L	244.41	2551.3 ppb	244.41	9.58%
QC value within limits for K 766.490 Radial Recovery = 102.05%						
Mg 279.077 IEC†	97.2	5132.3 ug/L	37.91	5132.3 ppb	37.91	0.74%
QC value within limits for Mg 279.077 IEC Recovery = 102.65%						
Mn 257.610†	259182.0	504.79 ug/L	0.968	504.79 ppb	0.968	0.19%
QC value within limits for Mn 257.610 Recovery = 100.96%						
Mo 202.031†	3638.3	510.05 ug/L	26.024	510.05 ppb	26.024	5.10%
QC value within limits for Mo 202.031 Recovery = 102.01%						
Na 589.592 Radial†	4135.4	2353.0 ug/L	183.45	2353.0 ppb	183.45	7.80%
QC value within limits for Na 589.592 Radial Recovery = 94.12%						
Ni 231.604†	10076.7	488.45 ug/L	1.639	488.45 ppb	1.639	0.34%
QC value within limits for Ni 231.604 Recovery = 97.69%						
P 214.914†	2406.4	2345.3 ug/L	140.75	2345.3 ppb	140.75	6.00%
QC value within limits for P 214.914 Recovery = 93.81%						
Pb 220.353†	2074.2	488.94 ug/L	24.898	488.94 ppb	24.898	5.09%
QC value within limits for Pb 220.353 Recovery = 97.79%						
S 181.975 Axial†	964.9	2370.9 ug/L	132.31	2370.9 ppb	132.31	5.58%
QC value within limits for S 181.975 Axial Recovery = 94.84%						
Sb 206.836†	785.5	497.03 ug/L	25.231	497.03 ppb	25.231	5.08%
QC value within limits for Sb 206.836 Recovery = 99.41%						
Se 196.026†	2159.5	2514.8 ug/L	134.71	2514.8 ppb	134.71	5.36%
QC value within limits for Se 196.026 Recovery = 100.59%						
Si 251.611†	87832.1	4908.8 ug/L	32.79	4908.8 ppb	32.79	0.67%
QC value within limits for Si 251.611 Recovery = 98.18%						
Sn 189.927†	1472.4	508.13 ug/L	25.224	508.13 ppb	25.224	4.96%
QC value within limits for Sn 189.927 Recovery = 101.63%						
Sr 421.552†	41641.6	530.06 ug/L	47.131	530.06 ppb	47.131	8.89%
QC value within limits for Sr 421.552 Recovery = 106.01%						
Ti 334.940†	183211.4	487.33 ug/L	0.893	487.33 ppb	0.893	0.18%
QC value within limits for Ti 334.940 Recovery = 97.47%						
Tl 190.801†	883.8	509.25 ug/L	23.542	509.25 ppb	23.542	4.62%
QC value within limits for Tl 190.801 Recovery = 101.85%						
U 409.014†	9511.3	519.96 ug/L	2.993	519.96 ppb	2.993	0.58%
QC value within limits for U 409.014 Recovery = 103.99%						
V 292.402†	37765.4	506.68 ug/L	1.130	506.68 ppb	1.130	0.22%
QC value within limits for V 292.402 Recovery = 101.34%						
Zn 213.857†	28261.7	496.50 ug/L	2.130	496.50 ppb	2.130	0.43%
QC value within limits for Zn 213.857 Recovery = 99.30%						
SiO2†	90531.9	10808 ug/L	1027.9	10808 ppb	1027.9	9.51%
QC value within limits for SiO2 Recovery = 101.06%						

All analyte(s) passed QC.

Sequence No.: 7
 Sample ID: ICB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 10
 Date Collected: 3/29/2010 09:53:48
 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	3270.7	3270.7	104 %		09:56:01
1	Y RADIAL	3521.5	3521.5	102.6 %		09:56:01
1	Al 396.153Radial†	-83.8	7.2	9.4661 ug/L	9.4661 ppb	09:56:01
1	Ca 317.933Radial†	14.3	-4.4	-10.305 ug/L	-10.305 ppb	09:56:01
1	Fe 238.204 Radial†	8.6	1.9	30.902 ug/L	30.902 ppb	09:56:01
1	K 766.490 Radial†	2840.0	-94.6	-23.739 ug/L	-23.739 ppb	09:55:41
1	Mg 279.077 IEC†	1.8	0.3	16.289 ug/L	16.289 ppb	09:56:01
1	Na 589.592 Radial†	-628.3	3.6	2.0298 ug/L	2.0298 ppb	09:55:41
1	Sr 421.552†	23.2	-9.9	-0.1265 ug/L	-0.1265 ppb	09:55:41
1	Sc 361.383	511350.1	511350.1	103.17 %		09:56:58
1	Y 371.029	431592.3	431592.3	104.27 %		09:56:58
1	Ag 328.068†	171.7	45.9	0.3854 ug/L	0.3854 ppb	09:56:58
1	As 188.979†	-18.6	4.6	3.6042 ug/L	3.6042 ppb	09:57:18
1	B 249.677†	-286.9	129.9	5.0120 ug/L	5.0120 ppb	09:57:18
1	Ba 233.527†	-3.5	4.3	0.0650 ug/L	0.0650 ppb	09:57:18
1	Be 313.107†	-3979.7	33.1	0.0203 ug/L	0.0203 ppb	09:56:58
1	Cd 226.502†	-203.2	5.9	0.1310 ug/L	0.1310 ppb	09:57:18
1	Co 228.616†	-53.7	5.7	0.2118 ug/L	0.2118 ppb	09:57:18
1	Cr 267.716†	73.4	-5.1	-0.1125 ug/L	-0.1125 ppb	09:57:18
1	Cu 324.752†	5448.5	58.0	0.2929 ug/L	0.2929 ppb	09:56:58
1	Mn 257.610†	430.4	-4.9	-0.0072 ug/L	-0.0072 ppb	09:57:18
1	Mo 202.031†	13.1	7.1	0.9988 ug/L	0.9988 ppb	09:57:18
1	Ni 231.604†	64.3	-14.5	-0.7047 ug/L	-0.7047 ppb	09:57:18
1	P 214.914†	204.3	-16.3	-16.638 ug/L	-16.638 ppb	09:57:18
1	Pb 220.353†	-75.4	-11.0	-2.5887 ug/L	-2.5887 ppb	09:57:18
1	S 181.975 Axial†	36.2	-0.2	-0.5866 ug/L	-0.5866 ppb	09:57:18
1	Sb 206.836†	34.8	-4.8	-2.8786 ug/L	-2.8786 ppb	09:57:18
1	Se 196.026†	-28.9	-2.5	-2.7932 ug/L	-2.7932 ppb	09:57:18
1	Si 251.611†	556.2	-50.4	-2.8330 ug/L	-2.8330 ppb	09:57:18
1	Sn 189.927†	13.2	2.2	0.7431 ug/L	0.7431 ppb	09:57:18
1	Ti 334.940†	-1508.1	-28.9	-0.0848 ug/L	-0.0848 ppb	09:56:58
1	Tl 190.801†	-38.5	-10.2	-5.8637 ug/L	-5.8637 ppb	09:57:18
1	U 409.014†	-2606.8	213.1	11.682 ug/L	11.682 ppb	09:56:58
1	V 292.402†	-1560.6	73.7	1.0077 ug/L	1.0077 ppb	09:56:58
1	Zn 213.857†	598.7	-71.8	-1.2741 ug/L	-1.2741 ppb	09:57:18
1	SiO2†	551.3	-55.7	-6.6805 ug/L	-6.6805 ppb	09:58:13
2	Sc Radial	3386.9	3386.9	108 %		09:56:26
2	Y RADIAL	3620.8	3620.8	105.5 %		09:56:26
2	Al 396.153Radial†	-82.2	11.5	15.022 ug/L	15.022 ppb	09:56:26
2	Ca 317.933Radial†	15.1	-4.1	-9.7652 ug/L	-9.7652 ppb	09:56:26
2	Fe 238.204 Radial†	8.6	1.6	25.768 ug/L	25.768 ppb	09:56:26
2	K 766.490 Radial†	2879.1	-152.0	-38.123 ug/L	-38.123 ppb	09:56:06
2	Mg 279.077 IEC†	4.3	2.5	134.08 ug/L	134.08 ppb	09:56:26
2	Na 589.592 Radial†	-632.8	20.1	11.447 ug/L	11.447 ppb	09:56:06
2	Sr 421.552†	7.6	-25.2	-0.3211 ug/L	-0.3211 ppb	09:56:06
2	Sc 361.383	500211.0	500211.0	100.92 %		09:57:23
2	Y 371.029	417991.4	417991.4	100.99 %		09:57:23
2	Ag 328.068†	150.0	28.2	0.2391 ug/L	0.2391 ppb	09:57:23
2	As 188.979†	-29.2	-6.4	-4.9437 ug/L	-4.9437 ppb	09:57:43
2	B 249.677†	-314.0	96.8	3.7346 ug/L	3.7346 ppb	09:57:43
2	Ba 233.527†	7.3	14.9	0.2139 ug/L	0.2139 ppb	09:57:43
2	Be 313.107†	-3931.9	-5.4	-0.0031 ug/L	-0.0031 ppb	09:57:23
2	Cd 226.502†	-208.5	-3.8	-0.0872 ug/L	-0.0872 ppb	09:57:43
2	Co 228.616†	-52.3	5.9	0.2202 ug/L	0.2202 ppb	09:57:43
2	Cr 267.716†	85.2	8.2	0.1830 ug/L	0.1830 ppb	09:57:43
2	Cu 324.752†	5336.4	64.5	0.3327 ug/L	0.3327 ppb	09:57:23
2	Mn 257.610†	450.1	23.9	0.0436 ug/L	0.0436 ppb	09:57:43
2	Mo 202.031†	14.1	8.4	1.1828 ug/L	1.1828 ppb	09:57:43
2	Ni 231.604†	78.2	0.6	0.0293 ug/L	0.0293 ppb	09:57:43

2	P 214.914†	209.8	-6.4	-6.5566 ug/L	-6.5566 ppb	09:57:43
2	Pb 220.353†	-58.2	4.4	1.0381 ug/L	1.0381 ppb	09:57:43
2	S 181.975 Axial†	39.6	3.9	9.6324 ug/L	9.6324 ppb	09:57:43
2	Sb 206.836†	39.4	0.6	0.4135 ug/L	0.4135 ppb	09:57:43
2	Se 196.026†	-7.1	18.5	21.474 ug/L	21.474 ppb	09:57:43
2	Si 251.611†	542.2	-52.3	-2.9399 ug/L	-2.9399 ppb	09:57:43
2	Sn 189.927†	18.0	7.2	2.4743 ug/L	2.4743 ppb	09:57:43
2	Ti 334.940†	-1412.8	32.9	0.0751 ug/L	0.0751 ppb	09:57:23
2	Tl 190.801†	-45.7	-18.3	-10.461 ug/L	-10.461 ppb	09:57:43
2	U 409.014†	-2759.4	5.6	0.3031 ug/L	0.3031 ppb	09:57:23
2	V 292.402†	-1651.3	-49.9	-0.6438 ug/L	-0.6438 ppb	09:57:23
2	Zn 213.857†	603.5	-54.1	-0.9640 ug/L	-0.9640 ppb	09:57:43
2	SiO2†	567.8	-27.4	-3.3079 ug/L	-3.3079 ppb	09:58:18
3	Sc Radial	3304.1	3304.1	105 %		09:56:51
3	Y RADIAL	3569.9	3569.9	104.0 %		09:56:51
3	Al 396.153Radial†	-76.3	15.1	19.891 ug/L	19.891 ppb	09:56:51
3	Ca 317.933Radial†	18.9	-0.1	-0.2374 ug/L	-0.2374 ppb	09:56:51
3	Fe 238.204 Radial†	6.9	0.1	2.3053 ug/L	2.3053 ppb	09:56:51
3	K 766.490 Radial†	2820.0	-141.2	-35.424 ug/L	-35.424 ppb	09:56:31
3	Mg 279.077 IEC†	2.8	1.2	65.170 ug/L	65.170 ppb	09:56:51
3	Na 589.592 Radial†	-603.5	33.3	18.933 ug/L	18.933 ppb	09:56:31
3	Sr 421.552†	6.6	-26.0	-0.3311 ug/L	-0.3311 ppb	09:56:31
3	Sc 361.383	492573.9	492573.9	99.379 %		09:57:48
3	Y 371.029	411765.8	411765.8	99.484 %		09:57:48
3	Ag 328.068†	157.8	38.3	0.3173 ug/L	0.3173 ppb	09:57:48
3	As 188.979†	-31.0	-8.6	-6.6943 ug/L	-6.6943 ppb	09:58:08
3	B 249.677†	-296.2	109.9	4.2436 ug/L	4.2436 ppb	09:58:08
3	Ba 233.527†	-2.8	4.9	0.0698 ug/L	0.0698 ppb	09:58:08
3	Be 313.107†	-3928.3	-62.2	-0.0391 ug/L	-0.0391 ppb	09:57:48
3	Cd 226.502†	-208.8	-7.3	-0.1643 ug/L	-0.1643 ppb	09:58:08
3	Co 228.616†	-47.0	10.4	0.3836 ug/L	0.3836 ppb	09:58:08
3	Cr 267.716†	68.6	-7.2	-0.1610 ug/L	-0.1610 ppb	09:58:08
3	Cu 324.752†	5094.5	-96.9	-0.4977 ug/L	-0.4977 ppb	09:57:48
3	Mn 257.610†	425.9	6.5	0.0103 ug/L	0.0103 ppb	09:58:08
3	Mo 202.031†	5.8	0.2	0.0322 ug/L	0.0322 ppb	09:58:08
3	Ni 231.604†	58.1	-18.3	-0.8901 ug/L	-0.8901 ppb	09:58:08
3	P 214.914†	210.1	-2.9	-2.8315 ug/L	-2.8315 ppb	09:58:08
3	Pb 220.353†	-43.5	18.3	4.3097 ug/L	4.3097 ppb	09:58:08
3	S 181.975 Axial†	32.0	-3.1	-7.6700 ug/L	-7.6700 ppb	09:58:08
3	Sb 206.836†	35.3	-2.9	-1.8347 ug/L	-1.8347 ppb	09:58:08
3	Se 196.026†	-26.1	-0.8	-0.8965 ug/L	-0.8965 ppb	09:58:08
3	Si 251.611†	553.4	-32.7	-1.8302 ug/L	-1.8302 ppb	09:58:08
3	Sn 189.927†	1.4	-9.3	-3.1874 ug/L	-3.1874 ppb	09:58:08
3	Ti 334.940†	-1544.2	-121.0	-0.3271 ug/L	-0.3271 ppb	09:57:48
3	Tl 190.801†	-19.5	7.4	4.2272 ug/L	4.2272 ppb	09:58:08
3	U 409.014†	-2728.6	-5.8	-0.3196 ug/L	-0.3196 ppb	09:57:48
3	V 292.402†	-1605.3	-28.9	-0.3812 ug/L	-0.3812 ppb	09:57:48
3	Zn 213.857†	588.0	-60.5	-1.0665 ug/L	-1.0665 ppb	09:58:08
3	SiO2†	567.8	-18.7	-2.2357 ug/L	-2.2357 ppb	09:58:23

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	501378.4	101.16 %		1.905			1.88%
Sc Radial	3320.6	106 %		1.9			1.80%
Y 371.029	420449.8	101.58 %		2.450			2.41%
Y RADIAL	3570.8	104.0 %		1.45			1.39%
Ag 328.068†	37.5	0.3139 ug/L		0.07320	0.3139 ppb	0.07320	23.32%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	11.3	14.793 ug/L		5.2161	14.793 ppb	5.2161	35.26%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-3.4	-2.6779 ug/L		5.51047	-2.6779 ppb	5.51047	205.77%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	112.2	4.3301 ug/L		0.64310	4.3301 ppb	0.64310	14.85%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	8.0	0.1162 ug/L		0.08461	0.1162 ppb	0.08461	72.79%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-11.5	-0.0073 ug/L		0.02989	-0.0073 ppb	0.02989	408.47%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-2.9	-6.7693 ug/L		5.66325	-6.7693 ppb	5.66325	83.66%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-1.7	-0.0402 ug/L	0.15319	-0.0402 ppb	0.15319 381.20%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	7.3	0.2719 ug/L	0.09683	0.2719 ppb	0.09683 35.61%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-1.4	-0.0302 ug/L	0.18618	-0.0302 ppb	0.18618 617.09%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	8.5	0.0426 ug/L	0.46835	0.0426 ppb	0.46835 >999.9%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	1.2	19.659 ug/L	15.2460	19.659 ppb	15.2460 77.55%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	-129.3	-32.428 ug/L	7.6457	-32.428 ppb	7.6457 23.58%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	1.4	71.846 ug/L	59.1783	71.846 ppb	59.1783 82.37%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	8.5	0.0156 ug/L	0.02580	0.0156 ppb	0.02580 165.67%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	5.3	0.7379 ug/L	0.61810	0.7379 ppb	0.61810 83.76%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	19.0	10.803 ug/L	8.4701	10.803 ppb	8.4701 78.40%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	-10.8	-0.5218 ug/L	0.48619	-0.5218 ppb	0.48619 93.17%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	-8.5	-8.6752 ug/L	7.14268	-8.6752 ppb	7.14268 82.33%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	3.9	0.9197 ug/L	3.45074	0.9197 ppb	3.45074 375.21%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	0.2	0.4586 ug/L	8.69841	0.4586 ppb	8.69841 >999.9%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	-2.4	-1.4333 ug/L	1.68236	-1.4333 ppb	1.68236 117.38%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	5.1	5.9282 ug/L	13.49666	5.9282 ppb	13.49666 227.67%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	-45.1	-2.5344 ug/L	0.61217	-2.5344 ppb	0.61217 24.15%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	0.0	0.0100 ug/L	2.90118	0.0100 ppb	2.90118 >999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-20.4	-0.2596 ug/L	0.11534	-0.2596 ppb	0.11534 44.43%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	-39.0	-0.1123 ug/L	0.20248	-0.1123 ppb	0.20248 180.36%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	-7.0	-4.0323 ug/L	7.51315	-4.0323 ppb	7.51315 186.32%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	70.9	3.8887 ug/L	6.75682	3.8887 ppb	6.75682 173.76%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-1.7	-0.0058 ug/L	0.88744	-0.0058 ppb	0.88744 >999.9%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	-62.1	-1.1015 ug/L	0.15801	-1.1015 ppb	0.15801 14.34%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	-33.9	-4.0747 ug/L	2.31948	-4.0747 ppb	2.31948 56.92%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 3/29/2010 10:00:34

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	3235.4	3235.4	103 %		10:02:47
1	Y RADIAL	3414.6	3414.6	99.49 %		10:02:27
1	Al 396.153Radial†	69.0	154.8	202.95 ug/L	202.95 ppb	10:02:47
1	Ca 317.933Radial†	99.6	78.6	185.57 ug/L	185.57 ppb	10:02:47
1	Fe 238.204 Radial†	12.1	5.3	87.430 ug/L	87.430 ppb	10:02:47
1	K 766.490 Radial†	3514.6	590.7	147.97 ug/L	147.97 ppb	10:02:27
1	Mg 279.077 IEC†	9.2	7.5	395.31 ug/L	395.31 ppb	10:02:47
1	Na 589.592 Radial†	-154.7	457.2	260.12 ug/L	260.12 ppb	10:02:27
1	Sr 421.552†	410.7	366.8	4.6683 ug/L	4.6683 ppb	10:02:27
1	Sc 361.383	503736.7	503736.7	101.63 %		10:03:44
1	Y 371.029	423954.0	423954.0	102.43 %		10:03:44
1	Ag 328.068†	856.0	721.8	5.9835 ug/L	5.9835 ppb	10:03:44
1	As 188.979†	19.4	41.7	32.481 ug/L	32.481 ppb	10:04:04
1	B 249.677†	1162.1	1551.3	59.896 ug/L	59.896 ppb	10:03:44
1	Ba 233.527†	451.8	452.3	6.5333 ug/L	6.5333 ppb	10:04:04
1	Be 313.107†	5697.5	9496.7	5.8686 ug/L	5.8686 ppb	10:03:44
1	Cd 226.502†	60.9	262.7	5.9128 ug/L	5.9128 ppb	10:04:04
1	Co 228.616†	104.3	160.4	5.9123 ug/L	5.9123 ppb	10:04:04
1	Cr 267.716†	361.2	279.1	6.1880 ug/L	6.1880 ppb	10:04:04
1	Cu 324.752†	7716.6	2369.4	12.137 ug/L	12.137 ppb	10:03:44
1	Mn 257.610†	6976.2	6442.2	12.532 ug/L	12.532 ppb	10:03:44
1	Mo 202.031†	98.3	91.2	12.779 ug/L	12.779 ppb	10:04:04
1	Ni 231.604†	196.1	116.1	5.6267 ug/L	5.6267 ppb	10:04:04
1	P 214.914†	398.6	177.9	178.46 ug/L	178.46 ppb	10:04:04
1	Pb 220.353†	6.9	68.9	16.251 ug/L	16.251 ppb	10:04:04
1	S 181.975 Axial†	91.3	54.5	133.86 ug/L	133.86 ppb	10:04:04
1	Sb 206.836†	54.4	15.0	9.6385 ug/L	9.6385 ppb	10:04:04
1	Se 196.026†	3.5	28.9	33.761 ug/L	33.761 ppb	10:04:04
1	Si 251.611†	2799.0	2164.5	120.97 ug/L	120.97 ppb	10:04:04
1	Sn 189.927†	54.8	43.3	14.938 ug/L	14.938 ppb	10:04:04
1	Ti 334.940†	793.6	2213.7	5.8504 ug/L	5.8504 ppb	10:03:44
1	Tl 190.801†	20.6	47.3	27.171 ug/L	27.171 ppb	10:04:04
1	U 409.014†	-1495.0	1268.8	69.560 ug/L	69.560 ppb	10:03:44
1	V 292.402†	-1139.4	465.2	6.4575 ug/L	6.4575 ppb	10:03:44
1	Zn 213.857†	1331.0	657.5	11.592 ug/L	11.592 ppb	10:04:04
1	SiO2†	2834.7	2199.2	262.54 ug/L	262.54 ppb	10:05:00
2	Sc Radial	3134.0	3134.0	99.7 %		10:03:13
2	Y RADIAL	3701.9	3701.9	107.9 %		10:02:53
2	Al 396.153Radial†	66.1	154.1	202.03 ug/L	202.03 ppb	10:03:13
2	Ca 317.933Radial†	96.8	79.0	186.47 ug/L	186.47 ppb	10:03:13
2	Fe 238.204 Radial†	14.8	8.5	138.49 ug/L	138.49 ppb	10:03:13
2	K 766.490 Radial†	3395.0	581.3	145.61 ug/L	145.61 ppb	10:02:53
2	Mg 279.077 IEC†	8.4	7.0	369.69 ug/L	369.69 ppb	10:03:13
2	Na 589.592 Radial†	-87.0	520.2	296.00 ug/L	296.00 ppb	10:02:53
2	Sr 421.552†	450.2	419.4	5.3369 ug/L	5.3369 ppb	10:02:53
2	Sc 361.383	508478.9	508478.9	102.59 %		10:04:09
2	Y 371.029	428890.9	428890.9	103.62 %		10:04:09
2	Ag 328.068†	847.8	706.0	5.8647 ug/L	5.8647 ppb	10:04:09
2	As 188.979†	27.5	49.4	38.510 ug/L	38.510 ppb	10:04:29
2	B 249.677†	1175.9	1554.2	59.999 ug/L	59.999 ppb	10:04:09
2	Ba 233.527†	435.1	431.9	6.2382 ug/L	6.2382 ppb	10:04:29
2	Be 313.107†	5951.0	9691.5	5.9888 ug/L	5.9888 ppb	10:04:09
2	Cd 226.502†	53.4	254.8	5.7300 ug/L	5.7300 ppb	10:04:29
2	Co 228.616†	93.6	148.9	5.4912 ug/L	5.4912 ppb	10:04:29
2	Cr 267.716†	315.7	231.5	5.1348 ug/L	5.1348 ppb	10:04:29
2	Cu 324.752†	7825.3	2404.7	12.322 ug/L	12.322 ppb	10:04:09
2	Mn 257.610†	7090.5	6489.6	12.631 ug/L	12.631 ppb	10:04:09
2	Mo 202.031†	96.1	88.1	12.347 ug/L	12.347 ppb	10:04:29
2	Ni 231.604†	203.6	121.6	5.8947 ug/L	5.8947 ppb	10:04:29

2	P 214.914†	375.7	152.0	152.01 ug/L	152.01 ppb	10:04:29
2	Pb 220.353†	-10.2	52.1	12.295 ug/L	12.295 ppb	10:04:29
2	S 181.975 Axial†	82.9	45.5	111.84 ug/L	111.84 ppb	10:04:29
2	Sb 206.836†	50.4	10.6	6.8992 ug/L	6.8992 ppb	10:04:29
2	Se 196.026†	-3.0	22.6	26.632 ug/L	26.632 ppb	10:04:29
2	Si 251.611†	2681.5	2024.4	113.13 ug/L	113.13 ppb	10:04:29
2	Sn 189.927†	43.5	31.8	10.982 ug/L	10.982 ppb	10:04:29
2	Ti 334.940†	805.8	2218.3	5.8657 ug/L	5.8657 ppb	10:04:09
2	Tl 190.801†	15.6	42.3	24.278 ug/L	24.278 ppb	10:04:29
2	U 409.014†	-1532.6	1245.9	68.300 ug/L	68.300 ppb	10:04:09
2	V 292.402†	-1234.7	382.9	5.3514 ug/L	5.3514 ppb	10:04:09
2	Zn 213.857†	1289.2	604.5	10.643 ug/L	10.643 ppb	10:04:29
2	SiO2†	2944.7	2280.4	272.27 ug/L	272.27 ppb	10:05:05
3	Sc Radial	3431.8	3431.8	109 %		10:03:38
3	Y RADIAL	3781.9	3781.9	110.2 %		10:03:18
3	Al 396.153Radial†	74.8	156.3	204.90 ug/L	204.90 ppb	10:03:38
3	Ca 317.933Radial†	104.5	77.6	183.18 ug/L	183.18 ppb	10:03:38
3	Fe 238.204 Radial†	15.3	7.6	124.77 ug/L	124.77 ppb	10:03:38
3	K 766.490 Radial†	3405.6	295.4	73.905 ug/L	73.905 ppb	10:03:18
3	Mg 279.077 IEC†	7.8	5.7	300.99 ug/L	300.99 ppb	10:03:38
3	Na 589.592 Radial†	-96.4	519.2	295.43 ug/L	295.43 ppb	10:03:18
3	Sr 421.552†	449.0	379.1	4.8248 ug/L	4.8248 ppb	10:03:18
3	Sc 361.383	504387.5	504387.5	101.76 %		10:04:35
3	Y 371.029	424497.8	424497.8	102.56 %		10:04:35
3	Ag 328.068†	812.1	677.5	5.6270 ug/L	5.6270 ppb	10:04:35
3	As 188.979†	26.3	48.4	37.737 ug/L	37.737 ppb	10:04:55
3	B 249.677†	1081.4	1470.6	56.769 ug/L	56.769 ppb	10:04:35
3	Ba 233.527†	467.3	466.9	6.7446 ug/L	6.7446 ppb	10:04:55
3	Be 313.107†	5779.9	9570.5	5.9140 ug/L	5.9140 ppb	10:04:35
3	Cd 226.502†	83.1	284.4	6.3972 ug/L	6.3972 ppb	10:04:55
3	Co 228.616†	109.8	165.6	6.1065 ug/L	6.1065 ppb	10:04:55
3	Cr 267.716†	367.7	285.1	6.3243 ug/L	6.3243 ppb	10:04:55
3	Cu 324.752†	7737.3	2380.0	12.194 ug/L	12.194 ppb	10:04:35
3	Mn 257.610†	6944.6	6402.3	12.462 ug/L	12.462 ppb	10:04:35
3	Mo 202.031†	103.7	96.3	13.496 ug/L	13.496 ppb	10:04:55
3	Ni 231.604†	203.2	122.8	5.9532 ug/L	5.9532 ppb	10:04:55
3	P 214.914†	397.0	175.8	176.29 ug/L	176.29 ppb	10:04:55
3	Pb 220.353†	-8.8	53.4	12.608 ug/L	12.608 ppb	10:04:55
3	S 181.975 Axial†	91.6	54.7	134.37 ug/L	134.37 ppb	10:04:55
3	Sb 206.836†	64.3	24.7	15.576 ug/L	15.576 ppb	10:04:55
3	Se 196.026†	21.3	46.4	54.139 ug/L	54.139 ppb	10:04:55
3	Si 251.611†	2857.9	2218.8	124.00 ug/L	124.00 ppb	10:04:55
3	Sn 189.927†	57.0	45.4	15.673 ug/L	15.673 ppb	10:04:55
3	Ti 334.940†	783.8	2203.1	5.8295 ug/L	5.8295 ppb	10:04:35
3	Tl 190.801†	10.7	37.6	21.597 ug/L	21.597 ppb	10:04:55
3	U 409.014†	-1502.9	1262.9	69.234 ug/L	69.234 ppb	10:04:35
3	V 292.402†	-1164.4	442.2	6.1543 ug/L	6.1543 ppb	10:04:35
3	Zn 213.857†	1355.0	679.4	11.972 ug/L	11.972 ppb	10:04:55
3	SiO2†	2939.0	2298.1	274.35 ug/L	274.35 ppb	10:05:10

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	505534.4	101.99 %	0.519			0.51%
Sc Radial	3267.1	104 %	4.8			4.63%
Y 371.029	425780.9	102.87 %	0.654			0.64%
Y RADIAL	3632.8	105.8 %	5.63			5.32%
Ag 328.068†	701.8	5.8251 ug/L	0.18150	5.8251 ppb	0.18150	3.12%
QC value within limits for Ag 328.068 Recovery = 116.50%						
Al 396.153Radial†	155.1	203.29 ug/L	1.468	203.29 ppb	1.468	0.72%
QC value within limits for Al 396.153Radial Recovery = 101.65%						
As 188.979†	46.5	36.243 ug/L	3.2804	36.243 ppb	3.2804	9.05%
QC value within limits for As 188.979 Recovery = 120.81%						
B 249.677†	1525.4	58.888 ug/L	1.8355	58.888 ppb	1.8355	3.12%
QC value within limits for B 249.677 Recovery = 117.78%						
Ba 233.527†	450.4	6.5054 ug/L	0.25438	6.5054 ppb	0.25438	3.91%
QC value greater than the upper limit for Ba 233.527 Recovery = 130.11%						
Be 313.107†	9586.2	5.9238 ug/L	0.06066	5.9238 ppb	0.06066	1.02%
QC value within limits for Be 313.107 Recovery = 118.48%						
Ca 317.933Radial†	78.4	185.07 ug/L	1.700	185.07 ppb	1.700	0.92%

QC value within limits for Ca 317.933 Radial Recovery = 92.54%

Cd 226.502†	267.3	6.0133 ug/L	0.34476	6.0133 ppb	0.34476	5.73%
QC value within limits for Cd 226.502 Recovery = 120.27%						
Co 228.616†	158.3	5.8367 ug/L	0.31452	5.8367 ppb	0.31452	5.39%
QC value within limits for Co 228.616 Recovery = 116.73%						
Cr 267.716†	265.2	5.8824 ug/L	0.65098	5.8824 ppb	0.65098	11.07%
QC value within limits for Cr 267.716 Recovery = 117.65%						
Cu 324.752†	2384.7	12.218 ug/L	0.0945	12.218 ppb	0.0945	0.77%
QC value within limits for Cu 324.752 Recovery = 122.18%						
Fe 238.204 Radial†	7.1	116.90 ug/L	26.424	116.90 ppb	26.424	22.60%
QC value within limits for Fe 238.204 Radial Recovery = 116.90%						
K 766.490 Radial†	489.1	122.50 ug/L	42.098	122.50 ppb	42.098	34.37%
QC value within limits for K 766.490 Radial Recovery = 81.66%						
Mg 279.077 IEC†	6.7	355.33 ug/L	48.771	355.33 ppb	48.771	13.73%
QC value within limits for Mg 279.077 IEC Recovery = 118.44%						
Mn 257.610†	6444.7	12.542 ug/L	0.0846	12.542 ppb	0.0846	0.67%
QC value within limits for Mn 257.610 Recovery = 125.42%						
Mo 202.031†	91.8	12.874 ug/L	0.5808	12.874 ppb	0.5808	4.51%
QC value within limits for Mo 202.031 Recovery = 128.74%						
Na 589.592 Radial†	498.9	283.85 ug/L	20.553	283.85 ppb	20.553	7.24%
QC value within limits for Na 589.592 Radial Recovery = 94.62%						
Ni 231.604†	120.2	5.8249 ug/L	0.17412	5.8249 ppb	0.17412	2.99%
QC value within limits for Ni 231.604 Recovery = 116.50%						
P 214.914†	168.5	168.92 ug/L	14.684	168.92 ppb	14.684	8.69%
QC value within limits for P 214.914 Recovery = 112.61%						
Pb 220.353†	58.1	13.718 ug/L	2.1994	13.718 ppb	2.1994	16.03%
QC value greater than the upper limit for Pb 220.353 Recovery = 137.18%						
S 181.975 Axial†	51.6	126.69 ug/L	12.864	126.69 ppb	12.864	10.15%
QC value within limits for S 181.975 Axial Recovery = 126.69%						
Sb 206.836†	16.8	10.705 ug/L	4.4357	10.705 ppb	4.4357	41.44%
QC value within limits for Sb 206.836 Recovery = 107.05%						
Se 196.026†	32.6	38.177 ug/L	14.2754	38.177 ppb	14.2754	37.39%
QC value within limits for Se 196.026 Recovery = 127.26%						
Si 251.611†	2135.9	119.37 ug/L	5.609	119.37 ppb	5.609	4.70%
QC value within limits for Si 251.611 Recovery = 119.37%						
Sn 189.927†	40.1	13.864 ug/L	2.5233	13.864 ppb	2.5233	18.20%
QC value greater than the upper limit for Sn 189.927 Recovery = 138.64%						
Sr 421.552†	388.4	4.9433 ug/L	0.34975	4.9433 ppb	0.34975	7.08%
QC value within limits for Sr 421.552 Recovery = 98.87%						
Ti 334.940†	2211.7	5.8485 ug/L	0.01819	5.8485 ppb	0.01819	0.31%
QC value within limits for Ti 334.940 Recovery = 116.97%						
Tl 190.801†	42.4	24.349 ug/L	2.7878	24.349 ppb	2.7878	11.45%
QC value within limits for Tl 190.801 Recovery = 121.74%						
U 409.014†	1259.2	69.031 ug/L	0.6537	69.031 ppb	0.6537	0.95%
QC value greater than the upper limit for U 409.014 Recovery = 138.06%						
V 292.402†	430.1	5.9877 ug/L	0.57152	5.9877 ppb	0.57152	9.54%
QC value within limits for V 292.402 Recovery = 119.75%						
Zn 213.857†	647.1	11.402 ug/L	0.6844	11.402 ppb	0.6844	6.00%
QC value within limits for Zn 213.857 Recovery = 114.02%						
SiO2†	2259.3	269.72 ug/L	6.303	269.72 ppb	6.303	2.34%
QC value within limits for SiO2 Recovery = 126.63%						

QC Failed. Continue with analysis.

Sequence No.: 9

Sample ID: ICSA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 3/29/2010 10:07:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3140.7	3140.7	99.9 %			10:09:35
1	Y RADIAL	3418.7	3418.7	99.61 %			10:09:35
1	Al 396.153Radial†	366275.0	366737.9	482290 ug/L		482290 ppb	10:09:15
1	Ca 317.933Radial†	188732.6	188907.9	445880 ug/L		445880 ppb	10:09:15
1	Fe 238.204 Radial†	11250.2	11255.3	184050 ug/L		184050 ppb	10:09:35
1	K 766.490 Radial†	2674.5	-147.2	-186.07 ug/L		-186.07 ppb	10:09:15
1	Mg 279.077 IEC†	9162.6	9170.5	483990 ug/L		483990 ppb	10:09:35
1	Na 589.592 Radial†	-529.5	77.5	44.070 ug/L		44.070 ppb	10:09:35
1	Sr 421.552†	311.3	279.3	0.2264 ug/L		0.2264 ppb	10:09:35
1	Sc 361.383	510364.9	510364.9	102.97 %			10:10:32
1	Y 371.029	397462.8	397462.8	96.028 %			10:10:32
1	Ag 328.068†	-6701.4	-6628.6	-4.1437 ug/L		-4.1437 ppb	10:10:32
1	As 188.979†	-68.4	-43.8	8.9346 ug/L		8.9346 ppb	10:10:52
1	B 249.677†	22.9	430.2	-13.276 ug/L		-13.276 ppb	10:10:32
1	Ba 233.527†	-363.5	-345.3	0.6700 ug/L		0.6700 ppb	10:10:52
1	Be 313.107†	-4027.3	-20.5	-0.0566 ug/L		-0.0566 ppb	10:10:32
1	Cd 226.502†	732.6	914.3	1.5543 ug/L		1.5543 ppb	10:10:52
1	Co 228.616†	3.8	61.4	-0.4077 ug/L		-0.4077 ppb	10:10:52
1	Cr 267.716†	-1253.1	-1293.3	-9.2170 ug/L		-9.2170 ppb	10:10:52
1	Cu 324.752†	3127.9	-2185.6	-1.5271 ug/L		-1.5271 ppb	10:10:32
1	Mn 257.610†	901.6	453.5	-0.7364 ug/L		-0.7364 ppb	10:10:32
1	Mo 202.031†	-176.4	-176.9	-5.1838 ug/L		-5.1838 ppb	10:10:52
1	Ni 231.604†	154.6	73.3	3.5523 ug/L		3.5523 ppb	10:10:52
1	P 214.914†	194.2	-25.7	-52.873 ug/L		-52.873 ppb	10:10:52
1	Pb 220.353†	-603.5	-524.1	-13.594 ug/L		-13.594 ppb	10:10:52
1	S 181.975 Axial†	46.2	9.6	-66.854 ug/L		-66.854 ppb	10:10:52
1	Sb 206.836†	60.7	20.4	-4.6801 ug/L		-4.6801 ppb	10:10:52
1	Se 196.026†	-588.3	-545.8	-9.0338 ug/L		-9.0338 ppb	10:10:52
1	Si 251.611†	563.9	-41.9	-2.0388 ug/L		-2.0388 ppb	10:10:52
1	Sn 189.927†	-314.9	-316.5	10.236 ug/L		10.236 ppb	10:10:52
1	Ti 334.940†	-8960.7	-7269.5	0.8895 ug/L		0.8895 ppb	10:10:32
1	Tl 190.801†	-82.0	-52.6	-30.295 ug/L		-30.295 ppb	10:10:52
1	U 409.014†	-1396.4	1383.7	54.969 ug/L		54.969 ppb	10:10:32
1	V 292.402†	-18.9	1568.0	3.1242 ug/L		3.1242 ppb	10:10:52
1	Zn 213.857†	2221.2	1505.0	-0.8679 ug/L		-0.8679 ppb	10:10:52
1	SiO2†	579.1	-27.6	-2.6220 ug/L		-2.6220 ppb	10:11:49
2	Sc Radial	3220.9	3220.9	102 %			10:10:00
2	Y RADIAL	3503.3	3503.3	102.1 %			10:10:00
2	Al 396.153Radial†	357971.1	349503.8	459620 ug/L		459620 ppb	10:09:40
2	Ca 317.933Radial†	183202.1	178805.7	422030 ug/L		422030 ppb	10:09:40
2	Fe 238.204 Radial†	11515.8	11234.2	183700 ug/L		183700 ppb	10:10:00
2	K 766.490 Radial†	2604.1	-282.7	-212.07 ug/L		-212.07 ppb	10:09:40
2	Mg 279.077 IEC†	9391.8	9165.9	483750 ug/L		483750 ppb	10:10:00
2	Na 589.592 Radial†	-549.2	71.4	40.630 ug/L		40.630 ppb	10:10:00
2	Sr 421.552†	310.3	270.6	0.2936 ug/L		0.2936 ppb	10:10:00
2	Sc 361.383	523813.9	523813.9	105.68 %			10:10:58
2	Y 371.029	407758.3	407758.3	98.516 %			10:10:58
2	Ag 328.068†	-6769.0	-6525.5	-3.0802 ug/L		-3.0802 ppb	10:10:58
2	As 188.979†	-70.0	-43.6	8.9938 ug/L		8.9938 ppb	10:11:18
2	B 249.677†	57.1	462.0	-11.993 ug/L		-11.993 ppb	10:10:58
2	Ba 233.527†	-398.4	-369.3	0.3154 ug/L		0.3154 ppb	10:11:18
2	Be 313.107†	-3990.8	114.4	0.0287 ug/L		0.0287 ppb	10:10:58
2	Cd 226.502†	765.3	927.0	1.8783 ug/L		1.8783 ppb	10:11:18
2	Co 228.616†	15.6	72.5	0.0077 ug/L		0.0077 ppb	10:11:18
2	Cr 267.716†	-1282.0	-1289.3	-9.1714 ug/L		-9.1714 ppb	10:11:18
2	Cu 324.752†	3144.9	-2247.4	-1.8716 ug/L		-1.8716 ppb	10:10:58
2	Mn 257.610†	930.9	458.8	-0.7501 ug/L		-0.7501 ppb	10:10:58
2	Mo 202.031†	-170.8	-167.2	-4.1345 ug/L		-4.1345 ppb	10:11:18
2	Ni 231.604†	158.8	73.4	3.5603 ug/L		3.5603 ppb	10:11:18

2	P 214.914†	210.1	-15.5	-47.793 ug/L	-47.793 ppb	10:11:18
2	Pb 220.353†	-603.1	-508.6	-15.956 ug/L	-15.956 ppb	10:11:18
2	S 181.975 Axial†	38.3	0.9	-83.918 ug/L	-83.918 ppb	10:11:18
2	Sb 206.836†	31.2	-9.0	-21.909 ug/L	-21.909 ppb	10:11:18
2	Se 196.026†	-580.6	-523.9	9.1347 ug/L	9.1347 ppb	10:11:18
2	Si 251.611†	683.7	57.4	3.5007 ug/L	3.5007 ppb	10:11:18
2	Sn 189.927†	-311.0	-305.0	8.9199 ug/L	8.9199 ppb	10:11:18
2	Ti 334.940†	-8822.7	-6915.5	-1.3530 ug/L	-1.3530 ppb	10:10:58
2	Tl 190.801†	-69.2	-38.4	-22.177 ug/L	-22.177 ppb	10:11:18
2	U 409.014†	-1140.1	1661.0	70.220 ug/L	70.220 ppb	10:10:58
2	V 292.402†	23.4	1608.6	3.7538 ug/L	3.7538 ppb	10:11:18
2	Zn 213.857†	2253.7	1480.4	-1.2523 ug/L	-1.2523 ppb	10:11:18
2	SiO2†	578.5	-42.7	-4.4615 ug/L	-4.4615 ppb	10:11:54
3	Sc Radial	3103.6	3103.6	98.7 %		10:10:26
3	Y RADIAL	3367.8	3367.8	98.12 %		10:10:26
3	Al 396.153Radial†	385842.6	390936.1	514110 ug/L	514110 ppb	10:10:06
3	Ca 317.933Radial†	198738.4	201298.6	475120 ug/L	475120 ppb	10:10:06
3	Fe 238.204 Radial†	11106.4	11244.1	183860 ug/L	183860 ppb	10:10:26
3	K 766.490 Radial†	2849.4	61.9	-143.40 ug/L	-143.40 ppb	10:10:06
3	Mg 279.077 IEC†	9052.4	9168.3	483880 ug/L	483880 ppb	10:10:26
3	Na 589.592 Radial†	-516.9	83.9	47.763 ug/L	47.763 ppb	10:10:26
3	Sr 421.552†	311.6	283.3	0.0593 ug/L	0.0593 ppb	10:10:26
3	Sc 361.383	540513.0	540513.0	109.05 %		10:11:23
3	Y 371.029	420003.5	420003.5	101.47 %		10:11:23
3	Ag 328.068†	-7080.5	-6613.3	-4.4885 ug/L	-4.4885 ppb	10:11:23
3	As 188.979†	-65.6	-37.6	13.725 ug/L	13.725 ppb	10:11:43
3	B 249.677†	123.2	520.9	-9.7430 ug/L	-9.7430 ppb	10:11:23
3	Ba 233.527†	-394.1	-353.6	0.5428 ug/L	0.5428 ppb	10:11:43
3	Be 313.107†	-4276.8	-31.2	-0.0624 ug/L	-0.0624 ppb	10:11:23
3	Cd 226.502†	745.5	886.4	0.9511 ug/L	0.9511 ppb	10:11:43
3	Co 228.616†	-9.2	49.3	-0.8472 ug/L	-0.8472 ppb	10:11:43
3	Cr 267.716†	-1262.9	-1234.3	-7.9361 ug/L	-7.9361 ppb	10:11:43
3	Cu 324.752†	3138.9	-2344.8	-2.3653 ug/L	-2.3653 ppb	10:11:23
3	Mn 257.610†	826.9	336.2	-0.9781 ug/L	-0.9781 ppb	10:11:23
3	Mo 202.031†	-176.9	-167.8	-3.5762 ug/L	-3.5762 ppb	10:11:43
3	Ni 231.604†	156.4	66.5	3.2262 ug/L	3.2262 ppb	10:11:43
3	P 214.914†	214.2	-17.9	-36.682 ug/L	-36.682 ppb	10:11:43
3	Pb 220.353†	-580.9	-470.6	7.3878 ug/L	7.3878 ppb	10:11:43
3	S 181.975 Axial†	24.8	-12.6	-127.22 ug/L	-127.22 ppb	10:11:43
3	Sb 206.836†	63.9	20.1	-5.6066 ug/L	-5.6066 ppb	10:11:43
3	Se 196.026†	-559.3	-487.4	66.883 ug/L	66.883 ppb	10:11:43
3	Si 251.611†	566.3	-70.2	-3.6412 ug/L	-3.6412 ppb	10:11:43
3	Sn 189.927†	-312.4	-297.1	23.285 ug/L	23.285 ppb	10:11:43
3	Ti 334.940†	-9347.1	-7138.5	5.1618 ug/L	5.1618 ppb	10:11:23
3	Tl 190.801†	-67.0	-34.3	-19.863 ug/L	-19.863 ppb	10:11:43
3	U 409.014†	-1106.4	1725.2	73.719 ug/L	73.719 ppb	10:11:23
3	V 292.402†	-67.7	1524.4	2.6239 ug/L	2.6239 ppb	10:11:43
3	Zn 213.857†	2166.7	1334.7	-3.8563 ug/L	-3.8563 ppb	10:11:43
3	SiO2†	578.3	-59.7	-6.5023 ug/L	-6.5023 ppb	10:11:59

Mean Data: ICSCA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	524897.3	105.90 %	3.047			2.88%
Sc Radial	3155.1	100 %	1.9			1.90%
Y 371.029	408408.2	98.673 %	2.7264			2.76%
Y RADIAL	3430.0	99.93 %	1.994			2.00%
Ag 328.068†	-6589.1	-3.9041 ug/L	0.73407	-3.9041 ppb	0.73407	18.80%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	369059.3	485340 ug/L	27371.1	485340 ppb	27371.1	5.64%
QC value within limits for Al 396.153Radial Recovery = 97.07%						
As 188.979†	-41.7	10.551 ug/L	2.7486	10.551 ppb	2.7486	26.05%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	471.0	-11.670 ug/L	1.7883	-11.670 ppb	1.7883	15.32%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-356.1	0.5094 ug/L	0.17965	0.5094 ppb	0.17965	35.27%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	20.9	-0.0301 ug/L	0.05101	-0.0301 ppb	0.05101	169.70%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	189670.7	447680 ug/L	26590.6	447680 ppb	26590.6	5.94%

QC value within limits for Ca 317.933 Radial Recovery = 89.54%

Cd 226.502† 909.2 1.4613 ug/L 0.47057 1.4613 ppb 0.47057 32.20%

QC value within limits for Cd 226.502 Recovery = Not calculated

Co 228.616† 61.1 -0.4157 ug/L 0.42749 -0.4157 ppb 0.42749 102.83%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716† -1272.3 -8.7748 ug/L 0.72670 -8.7748 ppb 0.72670 8.28%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.752† -2259.3 -1.9213 ug/L 0.42130 -1.9213 ppb 0.42130 21.93%

QC value within limits for Cu 324.752 Recovery = Not calculated

Fe 238.204 Radial† 11244.5 183870 ug/L 172.7 183870 ppb 172.7 0.09%

QC value within limits for Fe 238.204 Radial Recovery = 91.94%

K 766.490 Radial† -122.7 -180.51 ug/L 34.668 -180.51 ppb 34.668 19.21%

QC value within limits for K 766.490 Radial Recovery = Not calculated

Mg 279.077 IEC† 9168.2 483870 ug/L 123.7 483870 ppb 123.7 0.03%

QC value within limits for Mg 279.077 IEC Recovery = 96.77%

Mn 257.610† 416.2 -0.8216 ug/L 0.13576 -0.8216 ppb 0.13576 16.53%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031† -170.6 -4.2982 ug/L 0.81622 -4.2982 ppb 0.81622 18.99%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592 Radial† 77.6 44.154 ug/L 3.5672 44.154 ppb 3.5672 8.08%

QC value within limits for Na 589.592 Radial Recovery = Not calculated

Ni 231.604† 71.1 3.4463 ug/L 0.19064 3.4463 ppb 0.19064 5.53%

QC value within limits for Ni 231.604 Recovery = Not calculated

P 214.914† -19.7 -45.783 ug/L 8.2809 -45.783 ppb 8.2809 18.09%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353† -501.1 -7.3874 ug/L 12.85010 -7.3874 ppb 12.85010 173.95%

QC value within limits for Pb 220.353 Recovery = Not calculated

S 181.975 Axial† -0.7 -92.664 ug/L 31.1182 -92.664 ppb 31.1182 33.58%

QC value within limits for S 181.975 Axial Recovery = Not calculated

Sb 206.836† 10.5 -10.732 ug/L 9.6910 -10.732 ppb 9.6910 90.30%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026† -519.1 22.328 ug/L 39.6408 22.328 ppb 39.6408 177.54%

QC value within limits for Se 196.026 Recovery = Not calculated

Si 251.611† -18.2 -0.7265 ug/L 3.74744 -0.7265 ppb 3.74744 515.85%

QC value within limits for Si 251.611 Recovery = Not calculated

Sn 189.927† -306.2 14.147 ug/L 7.9412 14.147 ppb 7.9412 56.13%

QC value within limits for Sn 189.927 Recovery = Not calculated

Sr 421.552† 277.8 0.1931 ug/L 0.12064 0.1931 ppb 0.12064 62.49%

QC value within limits for Sr 421.552 Recovery = Not calculated

Ti 334.940† -7107.8 1.5661 ug/L 3.30963 1.5661 ppb 3.30963 211.33%

QC value within limits for Ti 334.940 Recovery = Not calculated

Tl 190.801† -41.8 -24.112 ug/L 5.4789 -24.112 ppb 5.4789 22.72%

QC value within limits for Tl 190.801 Recovery = Not calculated

U 409.014† 1590.0 66.302 ug/L 9.9700 66.302 ppb 9.9700 15.04%

QC value within limits for U 409.014 Recovery = Not calculated

V 292.402† 1567.0 3.1673 ug/L 0.56620 3.1673 ppb 0.56620 17.88%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857† 1440.0 -1.9922 ug/L 1.62582 -1.9922 ppb 1.62582 81.61%

QC value within limits for Zn 213.857 Recovery = Not calculated

SiO2† -43.3 -4.5286 ug/L 1.94100 -4.5286 ppb 1.94100 42.86%

QC value within limits for SiO2 Recovery = Not calculated

All analyte(s) passed QC.

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

Autosampler Location: 14
 Date Collected: 3/29/2010 10:14:10
 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	2919.9	2919.9	92.9 %		10:16:22
1	Y RADIAL	3167.9	3167.9	92.30 %		10:16:22
1	Al 396.153Radial†	360909.7	388683.1	511120 ug/L	511120 ppb	10:16:02
1	Ca 317.933Radial†	187826.4	202216.5	477290 ug/L	477290 ppb	10:16:02
1	Fe 238.204 Radial†	11852.9	12755.8	208600 ug/L	208600 ppb	10:16:22
1	K 766.490 Radial†	24284.6	23323.0	5687.5 ug/L	5687.5 ppb	10:16:02
1	Mg 279.077 IEC†	9474.0	10199.3	538290 ug/L	538290 ppb	10:16:22
1	Na 589.592 Radial†	9010.7	10309.4	5866.0 ug/L	5866.0 ppb	10:16:22
1	Sr 421.552†	38867.2	41816.4	528.76 ug/L	528.76 ppb	10:16:02
1	Sc 361.383	497587.9	497587.9	100.39 %		10:17:19
1	Y 371.029	387761.0	387761.0	93.684 %		10:17:19
1	Ag 328.068†	27736.1	27507.7	288.04 ug/L	288.04 ppb	10:17:19
1	As 188.979†	637.0	657.1	563.36 ug/L	563.36 ppb	10:17:39
1	B 249.677†	13679.3	14034.0	506.88 ug/L	506.88 ppb	10:17:19
1	Ba 233.527†	34613.8	34486.8	504.46 ug/L	504.46 ppb	10:17:19
1	Be 313.107†	402656.9	404980.7	250.82 ug/L	250.82 ppb	10:17:19
1	Cd 226.502†	23524.8	23636.1	510.10 ug/L	510.10 ppb	10:17:39
1	Co 228.616†	13025.8	13032.8	476.31 ug/L	476.31 ppb	10:17:39
1	Cr 267.716†	21669.4	21508.9	500.21 ug/L	500.21 ppb	10:17:19
1	Cu 324.752†	113347.0	107682.7	563.85 ug/L	563.85 ppb	10:17:19
1	Mn 257.610†	253738.2	252328.8	489.75 ug/L	489.75 ppb	10:17:19
1	Mo 202.031†	3555.2	3535.8	517.11 ug/L	517.11 ppb	10:17:39
1	Ni 231.604†	10310.6	10193.6	494.14 ug/L	494.14 ppb	10:17:39
1	P 214.914†	2812.2	2587.0	2482.4 ug/L	2482.4 ppb	10:17:39
1	Pb 220.353†	1556.4	1612.4	494.46 ug/L	494.46 ppb	10:17:39
1	S 181.975 Axial†	1182.5	1142.6	2712.8 ug/L	2712.8 ppb	10:17:39
1	Sb 206.836†	965.1	922.9	563.16 ug/L	563.16 ppb	10:17:39
1	Se 196.026†	1734.3	1753.0	2725.5 ug/L	2725.5 ppb	10:17:39
1	Si 251.611†	95218.0	94257.9	5268.5 ug/L	5268.5 ppb	10:17:19
1	Sn 189.927†	1218.0	1202.6	542.50 ug/L	542.50 ppb	10:17:39
1	Ti 334.940†	185443.3	186154.6	514.94 ug/L	514.94 ppb	10:17:19
1	Tl 190.801†	795.4	819.4	472.41 ug/L	472.41 ppb	10:17:39
1	U 409.014†	8149.3	10857.4	570.61 ug/L	570.61 ppb	10:17:19
1	V 292.402†	39430.1	40863.1	528.27 ug/L	528.27 ppb	10:17:19
1	Zn 213.857†	30994.7	30222.0	500.70 ug/L	500.70 ppb	10:17:19
1	SiO2†	103195.6	102204.0	12204 ug/L	12204 ppb	10:18:36
2	Sc Radial	3024.3	3024.3	96.2 %		10:16:47
2	Y RADIAL	3306.5	3306.5	96.34 %		10:16:47
2	Al 396.153Radial†	356290.8	370462.0	487160 ug/L	487160 ppb	10:16:27
2	Ca 317.933Radial†	183044.7	190262.0	449070 ug/L	449070 ppb	10:16:27
2	Fe 238.204 Radial†	11135.2	11568.9	189190 ug/L	189190 ppb	10:16:47
2	K 766.490 Radial†	23165.7	21256.9	5179.0 ug/L	5179.0 ppb	10:16:27
2	Mg 279.077 IEC†	8906.4	9256.9	488560 ug/L	488560 ppb	10:16:47
2	Na 589.592 Radial†	8425.0	9365.5	5328.9 ug/L	5328.9 ppb	10:16:47
2	Sr 421.552†	38108.9	39583.0	500.54 ug/L	500.54 ppb	10:16:27
2	Sc 361.383	550755.1	550755.1	111.12 %		10:17:45
2	Y 371.029	429083.0	429083.0	103.67 %		10:17:45
2	Ag 328.068†	30925.8	27711.2	284.11 ug/L	284.11 ppb	10:17:45
2	As 188.979†	649.6	607.2	520.04 ug/L	520.04 ppb	10:18:05
2	B 249.677†	15522.5	14377.4	523.39 ug/L	523.39 ppb	10:17:45
2	Ba 233.527†	38447.6	34608.6	505.63 ug/L	505.63 ppb	10:17:45
2	Be 313.107†	450142.8	408996.4	253.29 ug/L	253.29 ppb	10:17:45
2	Cd 226.502†	24268.3	22043.0	476.28 ug/L	476.28 ppb	10:18:05
2	Co 228.616†	13423.3	12138.0	443.62 ug/L	443.62 ppb	10:18:05
2	Cr 267.716†	24110.3	21621.8	500.66 ug/L	500.66 ppb	10:17:45
2	Cu 324.752†	126980.0	109052.3	569.85 ug/L	569.85 ppb	10:17:45
2	Mn 257.610†	282145.0	253494.2	492.13 ug/L	492.13 ppb	10:17:45
2	Mo 202.031†	3670.8	3297.9	481.95 ug/L	481.95 ppb	10:18:05
2	Ni 231.604†	10657.1	9514.0	461.19 ug/L	461.19 ppb	10:18:05

2	P 214.914†	2937.5	2429.3	2330.2 ug/L	2330.2 ppb	10:18:05
2	Pb 220.353†	1630.9	1529.8	470.44 ug/L	470.44 ppb	10:18:05
2	S 181.975 Axial†	1231.0	1072.5	2545.0 ug/L	2545.0 ppb	10:18:05
2	Sb 206.836†	1012.6	872.8	532.40 ug/L	532.40 ppb	10:18:05
2	Se 196.026†	1802.7	1647.8	2545.5 ug/L	2545.5 ppb	10:18:05
2	Si 251.611†	107077.1	95774.4	5353.8 ug/L	5353.8 ppb	10:17:45
2	Sn 189.927†	1258.8	1122.2	506.41 ug/L	506.41 ppb	10:18:05
2	Ti 334.940†	205332.9	186222.1	515.39 ug/L	515.39 ppb	10:17:45
2	Tl 190.801†	799.9	746.9	431.09 ug/L	431.09 ppb	10:18:05
2	U 409.014†	9258.2	11071.7	584.58 ug/L	584.58 ppb	10:17:45
2	V 292.402†	43865.3	41062.9	532.33 ug/L	532.33 ppb	10:17:45
2	Zn 213.857†	34625.7	30509.3	508.90 ug/L	508.90 ppb	10:17:45
2	SiO2†	111510.0	99763.3	11913 ug/L	11913 ppb	10:18:41
3	Sc Radial	3114.5	3114.5	99.1 %		10:17:12
3	Y RADIAL	3386.7	3386.7	98.67 %		10:17:12
3	Al 396.153Radial†	360465.3	363958.4	478610 ug/L	478610 ppb	10:16:52
3	Ca 317.933Radial†	186237.9	187979.1	443680 ug/L	443680 ppb	10:16:52
3	Fe 238.204 Radial†	11360.1	11461.0	187430 ug/L	187430 ppb	10:17:12
3	K 766.490 Radial†	23735.2	21134.9	5150.1 ug/L	5150.1 ppb	10:16:52
3	Mg 279.077 IEC†	9065.5	9149.7	482890 ug/L	482890 ppb	10:17:12
3	Na 589.592 Radial†	8643.4	9332.6	5310.2 ug/L	5310.2 ppb	10:17:12
3	Sr 421.552†	38616.4	38948.9	492.51 ug/L	492.51 ppb	10:16:52
3	Sc 361.383	544266.7	544266.7	109.81 %		10:18:10
3	Y 371.029	423231.5	423231.5	102.25 %		10:18:10
3	Ag 328.068†	30490.5	27646.6	283.12 ug/L	283.12 ppb	10:18:10
3	As 188.979†	650.4	615.0	525.63 ug/L	525.63 ppb	10:18:31
3	B 249.677†	15324.8	14363.9	523.11 ug/L	523.11 ppb	10:18:10
3	Ba 233.527†	38079.1	34685.5	506.69 ug/L	506.69 ppb	10:18:10
3	Be 313.107†	446192.7	410228.6	254.05 ug/L	254.05 ppb	10:18:10
3	Cd 226.502†	24721.4	22716.0	491.59 ug/L	491.59 ppb	10:18:31
3	Co 228.616†	13676.0	12512.2	457.43 ug/L	457.43 ppb	10:18:31
3	Cr 267.716†	23857.7	21650.4	501.11 ug/L	501.11 ppb	10:18:10
3	Cu 324.752†	125051.6	108658.5	567.74 ug/L	567.74 ppb	10:18:10
3	Mn 257.610†	279981.5	254551.0	494.25 ug/L	494.25 ppb	10:18:10
3	Mo 202.031†	3729.5	3390.8	494.76 ug/L	494.76 ppb	10:18:31
3	Ni 231.604†	10824.9	9781.1	474.14 ug/L	474.14 ppb	10:18:31
3	P 214.914†	2952.3	2474.3	2375.7 ug/L	2375.7 ppb	10:18:31
3	Pb 220.353†	1630.2	1546.6	472.38 ug/L	472.38 ppb	10:18:31
3	S 181.975 Axial†	1266.5	1118.1	2658.6 ug/L	2658.6 ppb	10:18:31
3	Sb 206.836†	1000.2	872.4	532.89 ug/L	532.89 ppb	10:18:31
3	Se 196.026†	1817.3	1680.5	2576.3 ug/L	2576.3 ppb	10:18:31
3	Si 251.611†	105821.2	95779.5	5353.9 ug/L	5353.9 ppb	10:18:10
3	Sn 189.927†	1289.0	1163.2	519.11 ug/L	519.11 ppb	10:18:31
3	Ti 334.940†	203255.5	186533.2	515.97 ug/L	515.97 ppb	10:18:10
3	Tl 190.801†	805.8	760.9	439.04 ug/L	439.04 ppb	10:18:31
3	U 409.014†	8865.6	10813.5	570.62 ug/L	570.62 ppb	10:18:10
3	V 292.402†	43484.3	41186.6	534.27 ug/L	534.27 ppb	10:18:10
3	Zn 213.857†	34381.5	30658.4	511.73 ug/L	511.73 ppb	10:18:10
3	SiO2†	104248.5	94346.8	11265 ug/L	11265 ppb	10:18:46

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	530869.9	107.11 %	5.852			5.46%
Sc Radial	3019.6	96.0 %	3.10			3.22%
Y 371.029	413358.5	99.869 %	5.4023			5.41%
Y RADIAL	3287.1	95.77 %	3.224			3.37%
Ag 328.068†	27621.8	285.09 ug/L	2.601	285.09 ppb	2.601	0.91%
QC value within limits for Ag 328.068 Recovery = 114.04%						
Al 396.153Radial†	374367.8	492300 ug/L	16854.3	492300 ppb	16854.3	3.42%
QC value within limits for Al 396.153Radial Recovery = 98.46%						
As 188.979†	626.4	536.35 ug/L	23.565	536.35 ppb	23.565	4.39%
QC value within limits for As 188.979 Recovery = 107.27%						
B 249.677†	14258.5	517.79 ug/L	9.454	517.79 ppb	9.454	1.83%
QC value within limits for B 249.677 Recovery = 103.56%						
Ba 233.527†	34593.6	505.60 ug/L	1.114	505.60 ppb	1.114	0.22%
QC value within limits for Ba 233.527 Recovery = 101.12%						
Be 313.107†	408068.6	252.72 ug/L	1.693	252.72 ppb	1.693	0.67%
QC value within limits for Be 313.107 Recovery = 101.09%						
Ca 317.933Radial†	193485.9	456680 ug/L	18048.2	456680 ppb	18048.2	3.95%

QC value within limits for Ca 317.933 Radial Recovery = 91.34%						
Cd 226.502†	22798.4	492.66 ug/L	16.934	492.66 ppb	16.934	3.44%
QC value within limits for Cd 226.502 Recovery = 98.53%						
Co 228.616†	12561.0	459.12 ug/L	16.414	459.12 ppb	16.414	3.58%
QC value within limits for Co 228.616 Recovery = 91.82%						
Cr 267.716†	21593.7	500.66 ug/L	0.453	500.66 ppb	0.453	0.09%
QC value within limits for Cr 267.716 Recovery = 100.13%						
Cu 324.752†	108464.5	567.15 ug/L	3.045	567.15 ppb	3.045	0.54%
QC value within limits for Cu 324.752 Recovery = 113.43%						
Fe 238.204 Radial†	11928.6	195070 ug/L	11748.2	195070 ppb	11748.2	6.02%
QC value within limits for Fe 238.204 Radial Recovery = 97.54%						
K 766.490 Radial†	21904.9	5338.9 ug/L	302.28	5338.9 ppb	302.28	5.66%
QC value within limits for K 766.490 Radial Recovery = 106.78%						
Mg 279.077 IEC†	9535.3	503250 ug/L	30479.3	503250 ppb	30479.3	6.06%
QC value within limits for Mg 279.077 IEC Recovery = 100.65%						
Mn 257.610†	253458.0	492.04 ug/L	2.251	492.04 ppb	2.251	0.46%
QC value within limits for Mn 257.610 Recovery = 98.41%						
Mo 202.031†	3408.2	497.94 ug/L	17.796	497.94 ppb	17.796	3.57%
QC value within limits for Mo 202.031 Recovery = 99.59%						
Na 589.592 Radial†	9669.2	5501.7 ug/L	315.63	5501.7 ppb	315.63	5.74%
QC value within limits for Na 589.592 Radial Recovery = 110.03%						
Ni 231.604†	9829.6	476.49 ug/L	16.596	476.49 ppb	16.596	3.48%
QC value within limits for Ni 231.604 Recovery = 95.30%						
P 214.914†	2496.9	2396.1 ug/L	78.14	2396.1 ppb	78.14	3.26%
QC value within limits for P 214.914 Recovery = 95.84%						
Pb 220.353†	1562.9	479.09 ug/L	13.342	479.09 ppb	13.342	2.78%
QC value within limits for Pb 220.353 Recovery = 95.82%						
S 181.975 Axial†	1111.1	2638.8 ug/L	85.65	2638.8 ppb	85.65	3.25%
QC value within limits for S 181.975 Axial Recovery = 105.55%						
Sb 206.836†	889.4	542.82 ug/L	17.617	542.82 ppb	17.617	3.25%
QC value within limits for Sb 206.836 Recovery = 108.56%						
Se 196.026†	1693.8	2615.8 ug/L	96.28	2615.8 ppb	96.28	3.68%
QC value within limits for Se 196.026 Recovery = 104.63%						
Si 251.611†	95270.6	5325.4 ug/L	49.27	5325.4 ppb	49.27	0.93%
QC value within limits for Si 251.611 Recovery = 106.51%						
Sn 189.927†	1162.7	522.68 ug/L	18.308	522.68 ppb	18.308	3.50%
QC value within limits for Sn 189.927 Recovery = 104.54%						
Sr 421.552†	40116.1	507.27 ug/L	19.040	507.27 ppb	19.040	3.75%
QC value within limits for Sr 421.552 Recovery = 101.45%						
Ti 334.940†	186303.3	515.44 ug/L	0.514	515.44 ppb	0.514	0.10%
QC value within limits for Ti 334.940 Recovery = 103.09%						
Tl 190.801†	775.7	447.51 ug/L	21.928	447.51 ppb	21.928	4.90%
QC value within limits for Tl 190.801 Recovery = 89.50%						
U 409.014†	10914.2	575.27 ug/L	8.061	575.27 ppb	8.061	1.40%
QC value within limits for U 409.014 Recovery = 115.05%						
V 292.402†	41037.5	531.62 ug/L	3.062	531.62 ppb	3.062	0.58%
QC value within limits for V 292.402 Recovery = 106.32%						
Zn 213.857†	30463.2	507.11 ug/L	5.727	507.11 ppb	5.727	1.13%
QC value within limits for Zn 213.857 Recovery = 101.42%						
SiO2†	98771.4	11794 ug/L	480.5	11794 ppb	480.5	4.07%
QC value within limits for SiO2 Recovery = 110.28%						

All analyte(s) passed QC.

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

Autosampler Location: 15
 Date Collected: 3/29/2010 10:20:56
 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	3273.2	3273.2	104 %		10:23:09
1	Y RADIAL	3568.8	3568.8	104.0 %		10:23:09
1	Al 396.153Radial†	372692.6	358054.7	470870 ug/L	470870 ppb	10:22:49
1	Ca 317.933Radial†	196502.5	188720.3	445430 ug/L	445430 ppb	10:22:49
1	Fe 238.204 Radial†	27089.7	26013.0	425370 ug/L	425370 ppb	10:23:09
1	K 766.490 Radial†	2469.0	-453.1	-447.15 ug/L	-447.15 ppb	10:22:49
1	Mg 279.077 IEC†	9329.6	8959.5	472600 ug/L	472600 ppb	10:23:09
1	Na 589.592 Radial†	865144.0	831568.4	473160 ug/L	473160 ppb	10:22:49
1	Sr 421.552†	1000.9	929.1	8.5010 ug/L	8.5010 ppb	10:23:09
1	Sc 361.383	515497.2	515497.2	104.00 %		10:24:08
1	Y 371.029	402656.0	402656.0	97.283 %		10:24:08
1	Ag 328.068†	-16000.5	-15505.0	-15.628 ug/L	-15.628 ppb	10:24:08
1	As 188.979†	-137.8	-109.8	14.124 ug/L	14.124 ppb	10:24:28
1	B 249.677†	839.4	1215.0	-22.166 ug/L	-22.166 ppb	10:24:08
1	Ba 233.527†	-1146.9	-1095.0	-2.7554 ug/L	-2.7554 ppb	10:24:28
1	Be 313.107†	-8122.8	-3919.4	-2.4552 ug/L	-2.4552 ppb	10:24:08
1	Cd 226.502†	2034.4	2158.9	7.5847 ug/L	7.5847 ppb	10:24:28
1	Co 228.616†	177.3	228.2	2.1836 ug/L	2.1836 ppb	10:24:28
1	Cr 267.716†	-1326.0	-1351.2	9.0124 ug/L	9.0124 ppb	10:24:28
1	Cu 324.752†	1138.1	-4129.0	-7.2176 ug/L	-7.2176 ppb	10:24:08
1	Mn 257.610†	-13845.0	-13734.0	-4.0632 ug/L	-4.0632 ppb	10:24:08
1	Mo 202.031†	-324.7	-317.8	-6.1861 ug/L	-6.1861 ppb	10:24:28
1	Ni 231.604†	235.8	149.9	7.2642 ug/L	7.2642 ppb	10:24:28
1	P 214.914†	462.9	230.7	12.399 ug/L	12.399 ppb	10:24:28
1	Pb 220.353†	-442.5	-363.4	-2.2114 ug/L	-2.2114 ppb	10:24:28
1	S 181.975 Axial†	40.4	3.5	-79.703 ug/L	-79.703 ppb	10:24:28
1	Sb 206.836†	49.6	9.2	-14.366 ug/L	-14.366 ppb	10:24:28
1	Se 196.026†	-1386.0	-1307.2	-251.72 ug/L	-251.72 ppb	10:24:28
1	Si 251.611†	-172.1	-755.0	-41.699 ug/L	-41.699 ppb	10:24:28
1	Sn 189.927†	-339.6	-337.2	30.971 ug/L	30.971 ppb	10:24:28
1	Ti 334.940†	-8141.4	-6395.1	-2.6600 ug/L	-2.6600 ppb	10:24:08
1	Tl 190.801†	-103.5	-72.5	-41.878 ug/L	-41.878 ppb	10:24:28
1	U 409.014†	289100.9	280711.0	15347 ug/L	15347 ppb	10:24:08
1	V 292.402†	1246.0	2784.4	12.899 ug/L	12.899 ppb	10:24:28
1	Zn 213.857†	3862.2	3061.4	-9.3971 ug/L	-9.3971 ppb	10:24:28
1	SiO2†	-179.1	-762.2	-89.901 ug/L	-89.901 ppb	10:25:25
2	Sc Radial	3052.3	3052.3	97.1 %		10:23:35
2	Y RADIAL	3338.5	3338.5	97.27 %		10:23:35
2	Al 396.153Radial†	347245.1	357754.0	470470 ug/L	470470 ppb	10:23:15
2	Ca 317.933Radial†	182839.8	188308.9	444460 ug/L	444460 ppb	10:23:15
2	Fe 238.204 Radial†	25730.4	26496.2	433270 ug/L	433270 ppb	10:23:35
2	K 766.490 Radial†	2483.4	-266.5	-399.27 ug/L	-399.27 ppb	10:23:15
2	Mg 279.077 IEC†	8782.5	9044.6	477080 ug/L	477080 ppb	10:23:35
2	Na 589.592 Radial†	803384.8	828102.8	471180 ug/L	471180 ppb	10:23:15
2	Sr 421.552†	946.7	942.8	8.6832 ug/L	8.6832 ppb	10:23:35
2	Sc 361.383	503849.4	503849.4	101.65 %		10:24:33
2	Y 371.029	394164.4	394164.4	95.232 %		10:24:33
2	Ag 328.068†	-15217.3	-15090.1	-9.6663 ug/L	-9.6663 ppb	10:24:33
2	As 188.979†	-134.0	-109.2	16.482 ug/L	16.482 ppb	10:24:53
2	B 249.677†	675.5	1072.5	-28.958 ug/L	-28.958 ppb	10:24:33
2	Ba 233.527†	-1149.0	-1122.6	-2.9129 ug/L	-2.9129 ppb	10:24:53
2	Be 313.107†	-7824.0	-3806.1	-2.3839 ug/L	-2.3839 ppb	10:24:33
2	Cd 226.502†	2035.7	2205.4	7.7986 ug/L	7.7986 ppb	10:24:53
2	Co 228.616†	191.6	246.2	2.7239 ug/L	2.7239 ppb	10:24:53
2	Cr 267.716†	-1301.0	-1356.0	9.7726 ug/L	9.7726 ppb	10:24:53
2	Cu 324.752†	1218.6	-4024.5	-6.2202 ug/L	-6.2202 ppb	10:24:33
2	Mn 257.610†	-13600.4	-13801.2	-3.5971 ug/L	-3.5971 ppb	10:24:33
2	Mo 202.031†	-341.1	-341.1	-8.8544 ug/L	-8.8544 ppb	10:24:53
2	Ni 231.604†	201.9	121.8	5.9017 ug/L	5.9017 ppb	10:24:53

2	P 214.914†	471.7	249.7	25.152 ug/L	25.152 ppb	10:24:53
2	Pb 220.353†	-437.2	-368.0	-4.2003 ug/L	-4.2003 ppb	10:24:53
2	S 181.975 Axial†	42.5	6.5	-72.110 ug/L	-72.110 ppb	10:24:53
2	Sb 206.836†	70.4	30.7	-1.3982 ug/L	-1.3982 ppb	10:24:53
2	Se 196.026†	-1387.1	-1339.0	-267.68 ug/L	-267.68 ppb	10:24:53
2	Si 251.611†	-159.6	-746.6	-41.189 ug/L	-41.189 ppb	10:24:53
2	Sn 189.927†	-331.3	-336.5	31.886 ug/L	31.886 ppb	10:24:53
2	Ti 334.940†	-7717.1	-6158.7	-2.4942 ug/L	-2.4942 ppb	10:24:33
2	Tl 190.801†	-77.7	-49.3	-28.618 ug/L	-28.618 ppb	10:24:53
2	U 409.014†	281145.6	279311.1	15269 ug/L	15269 ppb	10:24:33
2	V 292.402†	1194.9	2761.8	11.343 ug/L	11.343 ppb	10:24:53
2	Zn 213.857†	3857.7	3142.8	-9.1286 ug/L	-9.1286 ppb	10:24:53
2	SiO2†	-86.7	-675.3	-79.422 ug/L	-79.422 ppb	10:25:30
3	Sc Radial	3184.7	3184.7	101 %		10:24:01
3	Y RADIAL	3469.2	3469.2	101.1 %		10:24:01
3	Al 396.153Radial†	345826.5	341482.0	449070 ug/L	449070 ppb	10:23:41
3	Ca 317.933Radial†	181927.2	179577.4	423850 ug/L	423850 ppb	10:23:41
3	Fe 238.204 Radial†	26846.7	26496.2	433270 ug/L	433270 ppb	10:24:01
3	K 766.490 Radial†	2415.5	-439.9	-426.44 ug/L	-426.44 ppb	10:23:41
3	Mg 279.077 IEC†	9191.4	9072.1	478540 ug/L	478540 ppb	10:24:01
3	Na 589.592 Radial†	795192.2	785608.2	447010 ug/L	447010 ppb	10:23:41
3	Sr 421.552†	1005.1	960.0	9.0556 ug/L	9.0556 ppb	10:24:01
3	Sc 361.383	532733.6	532733.6	107.48 %		10:24:59
3	Y 371.029	416161.2	416161.2	100.55 %		10:24:59
3	Ag 328.068†	-16329.9	-15313.6	-11.137 ug/L	-11.137 ppb	10:24:59
3	As 188.979†	-134.4	-102.5	21.722 ug/L	21.722 ppb	10:25:19
3	B 249.677†	668.5	1029.9	-30.598 ug/L	-30.598 ppb	10:24:59
3	Ba 233.527†	-1116.2	-1030.8	-1.5914 ug/L	-1.5914 ppb	10:25:19
3	Be 313.107†	-8168.2	-3708.9	-2.3230 ug/L	-2.3230 ppb	10:24:59
3	Cd 226.502†	2016.7	2079.2	4.9359 ug/L	4.9359 ppb	10:25:19
3	Co 228.616†	170.8	216.6	1.6387 ug/L	1.6387 ppb	10:25:19
3	Cr 267.716†	-1282.7	-1269.6	11.742 ug/L	11.742 ppb	10:25:19
3	Cu 324.752†	1129.6	-4172.2	-6.9065 ug/L	-6.9065 ppb	10:24:59
3	Mn 257.610†	-14531.5	-13942.1	-3.9308 ug/L	-3.9308 ppb	10:24:59
3	Mo 202.031†	-349.5	-330.8	-7.6516 ug/L	-7.6516 ppb	10:25:19
3	Ni 231.604†	213.3	121.6	5.8935 ug/L	5.8935 ppb	10:25:19
3	P 214.914†	447.7	202.2	-28.241 ug/L	-28.241 ppb	10:25:19
3	Pb 220.353†	-450.8	-357.3	-7.3417 ug/L	-7.3417 ppb	10:25:19
3	S 181.975 Axial†	56.9	17.6	-40.941 ug/L	-40.941 ppb	10:25:19
3	Sb 206.836†	57.6	15.1	-10.150 ug/L	-10.150 ppb	10:25:19
3	Se 196.026†	-1363.4	-1243.0	-162.53 ug/L	-162.53 ppb	10:25:19
3	Si 251.611†	-165.8	-743.8	-41.053 ug/L	-41.053 ppb	10:25:19
3	Sn 189.927†	-321.7	-309.9	36.516 ug/L	36.516 ppb	10:25:19
3	Ti 334.940†	-7994.8	-6005.4	-4.9124 ug/L	-4.9124 ppb	10:24:59
3	Tl 190.801†	-97.4	-63.5	-36.743 ug/L	-36.743 ppb	10:25:19
3	U 409.014†	294688.7	276916.2	15138 ug/L	15138 ppb	10:24:59
3	V 292.402†	1215.2	2717.0	10.545 ug/L	10.545 ppb	10:25:19
3	Zn 213.857†	3845.4	2925.5	-12.979 ug/L	-12.979 ppb	10:25:19
3	SiO2†	-151.3	-730.8	-86.094 ug/L	-86.094 ppb	10:25:35

Mean Data: LRI

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	517360.1	104.38 %		2.932				2.81%
Sc Radial	3170.1	101 %		3.5				3.51%
Y 371.029	404327.2	97.687 %		2.6802				2.74%
Y RADIAL	3458.8	100.8 %		3.37				3.34%
Ag 328.068†	-15302.9	-12.144 ug/L		3.1060	-12.144 ppb		3.1060	25.58%
Al 396.153Radial†	352430.2	463470 ug/L		12470.4	463470 ppb		12470.4	2.69%
QC value within limits for Al 396.153Radial Recovery = 92.69%								
As 188.979†	-107.2	17.442 ug/L		3.8892	17.442 ppb		3.8892	22.30%
B 249.677†	1105.8	-27.241 ug/L		4.4703	-27.241 ppb		4.4703	16.41%
Ba 233.527†	-1082.8	-2.4199 ug/L		0.72179	-2.4199 ppb		0.72179	29.83%
Be 313.107†	-3811.5	-2.3874 ug/L		0.06613	-2.3874 ppb		0.06613	2.77%
Ca 317.933Radial†	185535.6	437920 ug/L		12188.5	437920 ppb		12188.5	2.78%
QC value less than the lower limit for Ca 317.933Radial Recovery = 87.58%								
Cd 226.502†	2147.8	6.7731 ug/L		1.59463	6.7731 ppb		1.59463	23.54%
Co 228.616†	230.4	2.1821 ug/L		0.54258	2.1821 ppb		0.54258	24.87%
Cr 267.716†	-1325.6	10.176 ug/L		1.4090	10.176 ppb		1.4090	13.85%
Cu 324.752†	-4108.6	-6.7814 ug/L		0.51032	-6.7814 ppb		0.51032	7.53%

Fe 238.204 Radial†	26335.1	430640 ug/L	4562.3	430640 ppb	4562.3	1.06%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 86.13%						
K 766.490 Radial†	-386.5	-424.29 ug/L	24.014	-424.29 ppb	24.014	5.66%
Mg 279.077 IEC†	9025.4	476070 ug/L	3094.8	476070 ppb	3094.8	0.65%
QC value within limits for Mg 279.077 IEC Recovery = 95.21%						
Mn 257.610†	-13825.8	-3.8637 ug/L	0.24018	-3.8637 ppb	0.24018	6.22%
Mo 202.031†	-329.9	-7.5640 ug/L	1.33630	-7.5640 ppb	1.33630	17.67%
Na 589.592 Radial†	815093.1	463780 ug/L	14562.5	463780 ppb	14562.5	3.14%
QC value within limits for Na 589.592 Radial Recovery = 92.76%						
Ni 231.604†	131.1	6.3532 ug/L	0.78904	6.3532 ppb	0.78904	12.42%
P 214.914†	227.6	3.1031 ug/L	27.88409	3.1031 ppb	27.88409	898.60%
Pb 220.353†	-362.9	-4.5845 ug/L	2.58665	-4.5845 ppb	2.58665	56.42%
S 181.975 Axial†	9.2	-64.252 ug/L	20.5413	-64.252 ppb	20.5413	31.97%
Sb 206.836†	18.4	-8.6382 ug/L	6.61488	-8.6382 ppb	6.61488	76.58%
Se 196.026†	-1296.4	-227.31 ug/L	56.667	-227.31 ppb	56.667	24.93%
Si 251.611†	-748.4	-41.314 ug/L	0.3407	-41.314 ppb	0.3407	0.82%
Sn 189.927†	-327.9	33.124 ug/L	2.9731	33.124 ppb	2.9731	8.98%
Sr 421.552†	944.0	8.7466 ug/L	0.28272	8.7466 ppb	0.28272	3.23%
Ti 334.940†	-6186.4	-3.3555 ug/L	1.35083	-3.3555 ppb	1.35083	40.26%
Tl 190.801†	-61.8	-35.746 ug/L	6.6860	-35.746 ppb	6.6860	18.70%
U 409.014†	278979.4	15251 ug/L	105.7	15251 ppb	105.7	0.69%
QC value within limits for U 409.014 Recovery = 101.68%						
V 292.402†	2754.4	11.596 ug/L	1.1972	11.596 ppb	1.1972	10.32%
Zn 213.857†	3043.3	-10.502 ug/L	2.1500	-10.502 ppb	2.1500	20.47%
SiO2†	-722.8	-85.139 ug/L	5.3046	-85.139 ppb	5.3046	6.23%

QC Failed. Continue with analysis.

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

Autosampler Location: 16
 Date Collected: 3/29/2010 10:27:44
 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	2999.8	2999.8	95.4 %		10:30:02
1	Y RADIAL	3151.3	3151.3	91.81 %		10:29:42
1	Al 396.153Radial†	226.1	324.7	-58.941 ug/L	-58.941 ppb	10:29:42
1	Ca 317.933Radial†	23.6	6.6	15.687 ug/L	15.687 ppb	10:30:02
1	Fe 238.204 Radial†	-8.0	-14.8	44.320 ug/L	44.320 ppb	10:30:02
1	K 766.490 Radial†	1206329.9	1261428.7	316400 ug/L	316400 ppb	10:29:37
1	Mg 279.077 IEC†	-3.1	-4.7	-144.60 ug/L	-144.60 ppb	10:30:02
1	Na 589.592 Radial†	-388.4	200.4	114.05 ug/L	114.05 ppb	10:29:42
1	Sr 421.552†	772245.7	809293.7	10302 ug/L	10302 ppb	10:29:37
1	Sc 361.383	582049.7	582049.7	117.43 %		10:31:18
1	Y 371.029	454847.9	454847.9	109.89 %		10:31:18
1	Ag 328.068†	-5508.7	-4811.5	1.0079 ug/L	1.0079 ppb	10:31:23
1	As 188.979†	15974.3	13625.8	10667 ug/L	10667 ppb	10:31:23
1	B 249.677†	153310.9	130961.8	5031.6 ug/L	5031.6 ppb	10:31:18
1	Ba 233.527†	1167823.9	994482.8	14352 ug/L	14352 ppb	10:31:18
1	Be 313.107†	5517357.6	4702265.8	2922.0 ug/L	2922.0 ppb	10:31:13
1	Cd 226.502†	517569.2	440945.4	9916.4 ug/L	9916.4 ppb	10:31:18
1	Co 228.616†	305346.0	260078.9	9560.8 ug/L	9560.8 ppb	10:31:18
1	Cr 267.716†	1285102.7	1094269.0	24311 ug/L	24311 ppb	10:31:18
1	Cu 324.752†	4703550.7	4000144.3	20548 ug/L	20548 ppb	10:31:13
1	Mn 257.610†	5849976.6	4981198.9	9696.0 ug/L	9696.0 ppb	10:31:13
1	Mo 202.031†	84023.2	71545.4	10021 ug/L	10021 ppb	10:31:23
1	Ni 231.604†	240631.0	204835.5	9929.5 ug/L	9929.5 ppb	10:31:18
1	P 214.914†	22352.7	18820.5	15144 ug/L	15144 ppb	10:31:23
1	Pb 220.353†	123118.7	104905.3	24652 ug/L	24652 ppb	10:31:23
1	S 181.975 Axial†	26244.6	22313.6	54847 ug/L	54847 ppb	10:31:23
1	Sb 206.836†	20910.1	17767.7	11202 ug/L	11202 ppb	10:31:23
1	Se 196.026†	10623.3	9071.9	10526 ug/L	10526 ppb	10:31:23
1	Si 251.611†	1002535.4	853132.1	47617 ug/L	47617 ppb	10:31:18
1	Sn 189.927†	36297.8	30899.2	10629 ug/L	10629 ppb	10:31:23
1	Ti 334.940†	4438571.8	3781154.4	10053 ug/L	10053 ppb	10:31:13
1	Tl 190.801†	20637.3	17601.0	10145 ug/L	10145 ppb	10:31:23
1	U 409.014†	-1092.8	1809.2	44.879 ug/L	44.879 ppb	10:31:18
1	V 292.402†	899930.7	767933.7	10286 ug/L	10286 ppb	10:31:18
1	Zn 213.857†	949287.7	807725.7	14229 ug/L	14229 ppb	10:31:18
1	SiO2†	1007007.7	856940.0	102160 ug/L	102160 ppb	10:32:07
2	Sc Radial	3159.8	3159.8	101 %		10:30:32
2	Y RADIAL	3130.2	3130.2	91.20 %		10:30:12
2	Al 396.153Radial†	229.0	315.6	-29.211 ug/L	-29.211 ppb	10:30:12
2	Ca 317.933Radial†	20.2	2.0	4.6081 ug/L	4.6081 ppb	10:30:32
2	Fe 238.204 Radial†	-9.7	-16.1	23.593 ug/L	23.593 ppb	10:30:32
2	K 766.490 Radial†	1169913.7	1161196.7	291260 ug/L	291260 ppb	10:30:07
2	Mg 279.077 IEC†	-2.1	-3.5	-90.889 ug/L	-90.889 ppb	10:30:32
2	Na 589.592 Radial†	-366.0	243.4	138.47 ug/L	138.47 ppb	10:30:12
2	Sr 421.552†	749007.0	745202.2	9486.4 ug/L	9486.4 ppb	10:30:07
2	Sc 361.383	635588.8	635588.8	128.23 %		10:31:37
2	Y 371.029	495149.9	495149.9	119.63 %		10:31:37
2	Ag 328.068†	-5502.1	-4411.2	4.1611 ug/L	4.1611 ppb	10:31:42
2	As 188.979†	15993.5	12494.9	9783.6 ug/L	9783.6 ppb	10:31:42
2	B 249.677†	169481.9	132575.1	5093.9 ug/L	5093.9 ppb	10:31:37
2	Ba 233.527†	1264576.1	986163.0	14232 ug/L	14232 ppb	10:31:37
2	Be 313.107†	5688023.4	4439586.4	2758.7 ug/L	2758.7 ppb	10:31:31
2	Cd 226.502†	567265.3	442573.7	9953.0 ug/L	9953.0 ppb	10:31:37
2	Co 228.616†	334306.8	260760.4	9585.1 ug/L	9585.1 ppb	10:31:37
2	Cr 267.716†	1396454.6	1088922.0	24192 ug/L	24192 ppb	10:31:37
2	Cu 324.752†	4837331.8	3767077.0	19350 ug/L	19350 ppb	10:31:31
2	Mn 257.610†	6003079.8	4680964.4	9111.6 ug/L	9111.6 ppb	10:31:31
2	Mo 202.031†	83868.9	65397.9	9159.9 ug/L	9159.9 ppb	10:31:42
2	Ni 231.604†	263638.1	205516.3	9962.5 ug/L	9962.5 ppb	10:31:37

2	P 214.914†	22347.6	17213.1	13740 ug/L	13740 ppb	10:31:42
2	Pb 220.353†	123158.0	96104.5	22583 ug/L	22583 ppb	10:31:42
2	S 181.975 Axial†	26289.3	20465.9	50305 ug/L	50305 ppb	10:31:42
2	Sb 206.836†	20844.1	16216.4	10226 ug/L	10226 ppb	10:31:42
2	Se 196.026†	10615.6	8303.8	9635.0 ug/L	9635.0 ppb	10:31:42
2	Si 251.611†	1102631.1	859276.2	47972 ug/L	47972 ppb	10:31:37
2	Sn 189.927†	36225.6	28239.2	9713.8 ug/L	9713.8 ppb	10:31:42
2	Ti 334.940†	4553704.9	3552552.1	9444.3 ug/L	9444.3 ppb	10:31:31
2	Tl 190.801†	20628.5	16113.8	9285.7 ug/L	9285.7 ppb	10:31:42
2	U 409.014†	-864.8	2065.4	59.198 ug/L	59.198 ppb	10:31:37
2	V 292.402†	979080.7	765103.6	10237 ug/L	10237 ppb	10:31:37
2	Zn 213.857†	1034515.6	806094.9	14202 ug/L	14202 ppb	10:31:37
2	SiO2†	1042616.3	812474.2	96873 ug/L	96873 ppb	10:32:13
3	Sc Radial	3104.0	3104.0	98.7 %		10:31:03
3	Y RADIAL	3211.5	3211.5	93.57 %		10:30:43
3	Al 396.153Radial†	239.8	330.6	-37.989 ug/L	-37.989 ppb	10:30:43
3	Ca 317.933Radial†	17.0	-0.9	-2.1397 ug/L	-2.1397 ppb	10:31:03
3	Fe 238.204 Radial†	-8.5	-15.1	37.483 ug/L	37.483 ppb	10:31:03
3	K 766.490 Radial†	1205862.3	1218524.0	305630 ug/L	305630 ppb	10:30:38
3	Mg 279.077 IEC†	-4.3	-5.8	-204.63 ug/L	-204.63 ppb	10:31:03
3	Na 589.592 Radial†	-371.1	231.7	131.83 ug/L	131.83 ppb	10:30:43
3	Sr 421.552†	773287.9	783186.5	9970.0 ug/L	9970.0 ppb	10:30:38
3	Sc 361.383	580231.7	580231.7	117.06 %		10:31:56
3	Y 371.029	453923.8	453923.8	109.67 %		10:31:56
3	Ag 328.068†	-5291.4	-4640.6	2.0794 ug/L	2.0794 ppb	10:32:01
3	As 188.979†	15392.8	13171.6	10316 ug/L	10316 ppb	10:32:01
3	B 249.677†	151868.0	130138.3	5000.0 ug/L	5000.0 ppb	10:31:56
3	Ba 233.527†	1155641.1	987191.9	14247 ug/L	14247 ppb	10:31:56
3	Be 313.107†	5618626.0	4803493.7	2984.8 ug/L	2984.8 ppb	10:31:50
3	Cd 226.502†	512026.8	437591.9	9841.0 ug/L	9841.0 ppb	10:31:56
3	Co 228.616†	301849.8	257907.1	9480.0 ug/L	9480.0 ppb	10:31:56
3	Cr 267.716†	1270345.6	1085092.0	24107 ug/L	24107 ppb	10:31:56
3	Cu 324.752†	4784951.0	4082228.9	20969 ug/L	20969 ppb	10:31:50
3	Mn 257.610†	5921996.8	5058329.6	9846.2 ug/L	9846.2 ppb	10:31:50
3	Mo 202.031†	81490.0	69605.7	9749.3 ug/L	9749.3 ppb	10:32:01
3	Ni 231.604†	238081.2	203299.4	9855.0 ug/L	9855.0 ppb	10:31:56
3	P 214.914†	21495.5	18147.8	14374 ug/L	14374 ppb	10:32:01
3	Pb 220.353†	119347.2	102012.1	23971 ug/L	23971 ppb	10:32:01
3	S 181.975 Axial†	25202.0	21493.0	52830 ug/L	52830 ppb	10:32:01
3	Sb 206.836†	20151.3	17175.4	10830 ug/L	10830 ppb	10:32:01
3	Se 196.026†	10201.0	8739.5	10141 ug/L	10141 ppb	10:32:01
3	Si 251.611†	991061.6	846005.7	47222 ug/L	47222 ppb	10:31:56
3	Sn 189.927†	35179.8	30041.0	10334 ug/L	10334 ppb	10:32:01
3	Ti 334.940†	4498620.1	3844292.4	10221 ug/L	10221 ppb	10:31:50
3	Tl 190.801†	20010.6	17120.7	9872.6 ug/L	9872.6 ppb	10:32:01
3	U 409.014†	-1150.4	1757.1	42.475 ug/L	42.475 ppb	10:31:56
3	V 292.402†	889500.8	761425.3	10196 ug/L	10196 ppb	10:31:56
3	Zn 213.857†	939870.1	802213.8	14132 ug/L	14132 ppb	10:31:56
3	SiO2†	982712.5	838873.2	100010 ug/L	100010 ppb	10:32:19

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	599290.0	120.91 %	6.345			5.25%
Sc Radial	3087.9	98.2 %	2.58			2.63%
Y 371.029	467973.9	113.06 %	5.687			5.03%
Y RADIAL	3164.3	92.19 %	1.229			1.33%
Ag 328.068†	-4621.1	2.4161 ug/L	1.60337	2.4161 ppb	1.60337	66.36%
Al 396.153Radial†	323.6	-42.047 ug/L	15.2749	-42.047 ppb	15.2749	36.33%
As 188.979†	13097.4	10255 ug/L	444.7	10255 ppb	444.7	4.34%
QC value within limits for As 188.979 Recovery = 102.55%						
B 249.677†	131225.1	5041.8 ug/L	47.75	5041.8 ppb	47.75	0.95%
QC value within limits for B 249.677 Recovery = 100.84%						
Ba 233.527†	989279.2	14277 ug/L	65.4	14277 ppb	65.4	0.46%
QC value within limits for Ba 233.527 Recovery = 95.18%						
Be 313.107†	4648448.6	2888.5 ug/L	116.73	2888.5 ppb	116.73	4.04%
QC value within limits for Be 313.107 Recovery = 96.28%						
Ca 317.933Radial†	2.6	6.0517 ug/L	9.00038	6.0517 ppb	9.00038	148.73%
Cd 226.502†	440370.3	9903.5 ug/L	57.13	9903.5 ppb	57.13	0.58%
QC value within limits for Cd 226.502 Recovery = 99.03%						

Co 228.616†	259582.2	9542.0 ug/L	55.03	9542.0 ppb	55.03	0.58%
QC value within limits for Co 228.616 Recovery = 95.42%						
Cr 267.716†	1089427.7	24204 ug/L	102.4	24204 ppb	102.4	0.42%
QC value within limits for Cr 267.716 Recovery = 96.81%						
Cu 324.752†	3949816.7	20289 ug/L	839.8	20289 ppb	839.8	4.14%
QC value within limits for Cu 324.752 Recovery = 101.45%						
Fe 238.204 Radial†	-15.3	35.132 ug/L	10.5614	35.132 ppb	10.5614	30.06%
K 766.490 Radial†	1213716.5	304430 ug/L	12613.6	304430 ppb	12613.6	4.14%
QC value within limits for K 766.490 Radial Recovery = 101.48%						
Mg 279.077 IEC†	-4.7	-146.71 ug/L	56.897	-146.71 ppb	56.897	38.78%
Mn 257.610†	4906830.9	9551.3 ug/L	388.09	9551.3 ppb	388.09	4.06%
QC value within limits for Mn 257.610 Recovery = 95.51%						
Mo 202.031†	68849.7	9643.4 ug/L	440.18	9643.4 ppb	440.18	4.56%
QC value within limits for Mo 202.031 Recovery = 96.43%						
Na 589.592 Radial†	225.2	128.12 ug/L	12.626	128.12 ppb	12.626	9.86%
Ni 231.604†	204550.4	9915.6 ug/L	55.05	9915.6 ppb	55.05	0.56%
QC value within limits for Ni 231.604 Recovery = 99.16%						
P 214.914†	18060.5	14420 ug/L	703.2	14420 ppb	703.2	4.88%
QC value within limits for P 214.914 Recovery = 96.13%						
Pb 220.353†	101007.3	23735 ug/L	1054.2	23735 ppb	1054.2	4.44%
QC value within limits for Pb 220.353 Recovery = 94.94%						
S 181.975 Axial†	21424.2	52661 ug/L	2275.6	52661 ppb	2275.6	4.32%
QC value within limits for S 181.975 Axial Recovery = 105.32%						
Sb 206.836†	17053.2	10753 ug/L	492.2	10753 ppb	492.2	4.58%
QC value within limits for Sb 206.836 Recovery = 107.53%						
Se 196.026†	8705.1	10101 ug/L	447.0	10101 ppb	447.0	4.43%
QC value within limits for Se 196.026 Recovery = 101.01%						
Si 251.611†	852804.7	47604 ug/L	375.1	47604 ppb	375.1	0.79%
QC value within limits for Si 251.611 Recovery = 95.21%						
Sn 189.927†	29726.5	10225 ug/L	467.0	10225 ppb	467.0	4.57%
QC value within limits for Sn 189.927 Recovery = 102.25%						
Sr 421.552†	779227.5	9919.6 ug/L	410.27	9919.6 ppb	410.27	4.14%
QC value within limits for Sr 421.552 Recovery = 99.20%						
Ti 334.940†	3725999.6	9905.8 ug/L	408.44	9905.8 ppb	408.44	4.12%
QC value within limits for Ti 334.940 Recovery = 99.06%						
Tl 190.801†	16945.2	9767.7 ug/L	439.13	9767.7 ppb	439.13	4.50%
QC value within limits for Tl 190.801 Recovery = 97.68%						
U 409.014†	1877.2	48.851 ug/L	9.0410	48.851 ppb	9.0410	18.51%
V 292.402†	764820.9	10239 ug/L	45.1	10239 ppb	45.1	0.44%
QC value within limits for V 292.402 Recovery = 102.39%						
Zn 213.857†	805344.8	14188 ug/L	50.4	14188 ppb	50.4	0.36%
QC value within limits for Zn 213.857 Recovery = 94.58%						
SiO2†	836095.8	99683 ug/L	2661.3	99683 ppb	2661.3	2.67%
QC value within limits for SiO2 Recovery = 93.16%						

All analyte(s) passed QC.

Sequence No.: 13

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/29/2010 10:34:29

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3350.1	3350.1	107 %		10:36:41
1	Y RADIAL	3961.2	3961.2	115.4 %		10:36:21
1	Al 396.153Radial†	3970.8	3814.1	4993.2 ug/L	4993.2 ppb	10:36:21
1	Ca 317.933Radial†	2197.5	2044.1	4824.7 ug/L	4824.7 ppb	10:36:41
1	Fe 238.204 Radial†	339.8	312.4	5122.9 ug/L	5122.9 ppb	10:36:41
1	K 766.490 Radial†	26626.6	22163.5	5553.0 ug/L	5553.0 ppb	10:36:21
1	Mg 279.077 IEC†	104.9	97.0	5121.9 ug/L	5121.9 ppb	10:36:41
1	Na 589.592 Radial†	18867.2	18313.6	10420 ug/L	10420 ppb	10:36:21
1	Sr 421.552†	44544.5	41770.9	531.71 ug/L	531.71 ppb	10:36:21
1	Sc 361.383	647546.2	647546.2	130.65 %		10:37:39
1	Y 371.029	504094.5	504094.5	121.79 %		10:37:39
1	Ag 328.068†	79793.8	60956.2	509.07 ug/L	509.07 ppb	10:37:39
1	As 188.979†	755.6	601.0	472.18 ug/L	472.18 ppb	10:37:59
1	B 249.677†	17718.3	13970.1	537.50 ug/L	537.50 ppb	10:37:39
1	Ba 233.527†	45956.8	35184.4	508.25 ug/L	508.25 ppb	10:37:39
1	Be 313.107†	1054704.6	811193.9	501.30 ug/L	501.30 ppb	10:37:39
1	Cd 226.502†	29464.6	22755.9	511.33 ug/L	511.33 ppb	10:37:39
1	Co 228.616†	16344.7	12568.5	462.08 ug/L	462.08 ppb	10:37:59
1	Cr 267.716†	29882.1	22796.4	507.21 ug/L	507.21 ppb	10:37:39
1	Cu 324.752†	135636.2	98596.8	506.44 ug/L	506.44 ppb	10:37:39
1	Mn 257.610†	343100.1	262197.3	510.67 ug/L	510.67 ppb	10:37:39
1	Mo 202.031†	4371.1	3340.2	468.29 ug/L	468.29 ppb	10:37:59
1	Ni 231.604†	13746.7	10445.3	506.36 ug/L	506.36 ppb	10:37:39
1	P 214.914†	3240.5	2266.1	2203.8 ug/L	2203.8 ppb	10:37:59
1	Pb 220.353†	2542.6	2008.3	473.37 ug/L	473.37 ppb	10:37:59
1	S 181.975 Axial†	540.1	378.1	928.44 ug/L	928.44 ppb	10:37:59
1	Sb 206.836†	1050.8	765.9	483.56 ug/L	483.56 ppb	10:37:59
1	Se 196.026†	498.7	407.2	487.55 ug/L	487.55 ppb	10:37:59
1	Si 251.611†	60563.3	45767.5	2555.4 ug/L	2555.4 ppb	10:37:39
1	Sn 189.927†	1796.9	1364.8	471.11 ug/L	471.11 ppb	10:37:59
1	Ti 334.940†	247971.8	191238.1	508.68 ug/L	508.68 ppb	10:37:39
1	Tl 190.801†	1033.3	818.0	471.95 ug/L	471.95 ppb	10:37:59
1	U 409.014†	9424.1	9953.3	544.16 ug/L	544.16 ppb	10:37:39
1	V 292.402†	47827.8	38195.2	511.79 ug/L	511.79 ppb	10:37:39
1	Zn 213.857†	38589.4	28885.4	507.44 ug/L	507.44 ppb	10:37:39
1	SiO2†	59090.9	44640.0	5323.5 ug/L	5323.5 ppb	10:38:57
2	Sc Radial	3349.4	3349.4	107 %		10:37:07
2	Y RADIAL	3408.1	3408.1	99.30 %		10:36:47
2	Al 396.153Radial†	3435.8	3312.7	4331.7 ug/L	4331.7 ppb	10:36:47
2	Ca 317.933Radial†	2200.1	2047.0	4831.4 ug/L	4831.4 ppb	10:37:07
2	Fe 238.204 Radial†	337.4	310.3	5088.7 ug/L	5088.7 ppb	10:37:07
2	K 766.490 Radial†	23385.4	19125.8	4791.5 ug/L	4791.5 ppb	10:36:47
2	Mg 279.077 IEC†	103.0	95.2	5026.1 ug/L	5026.1 ppb	10:37:07
2	Na 589.592 Radial†	16075.4	15696.4	8931.1 ug/L	8931.1 ppb	10:36:47
2	Sr 421.552†	38517.8	36121.8	459.79 ug/L	459.79 ppb	10:36:47
2	Sc 361.383	570705.9	570705.9	115.14 %		10:38:05
2	Y 371.029	446869.8	446869.8	107.97 %		10:38:05
2	Ag 328.068†	70075.7	60739.5	507.26 ug/L	507.26 ppb	10:38:05
2	As 188.979†	729.1	655.8	514.69 ug/L	514.69 ppb	10:38:25
2	B 249.677†	15337.2	13728.1	528.04 ug/L	528.04 ppb	10:38:05
2	Ba 233.527†	40488.9	35171.8	508.06 ug/L	508.06 ppb	10:38:05
2	Be 313.107†	920132.6	803015.5	496.25 ug/L	496.25 ppb	10:38:05
2	Cd 226.502†	25673.7	22500.2	505.58 ug/L	505.58 ppb	10:38:05
2	Co 228.616†	15698.1	13691.4	503.48 ug/L	503.48 ppb	10:38:25
2	Cr 267.716†	26362.8	22819.6	507.72 ug/L	507.72 ppb	10:38:05
2	Cu 324.752†	117709.8	97006.3	498.27 ug/L	498.27 ppb	10:38:05
2	Mn 257.610†	300508.5	260566.2	507.50 ug/L	507.50 ppb	10:38:05
2	Mo 202.031†	4207.8	3648.8	511.52 ug/L	511.52 ppb	10:38:25
2	Ni 231.604†	12014.7	10357.8	502.09 ug/L	502.09 ppb	10:38:05

2	P 214.914†	3095.9	2474.5	2417.4 ug/L	2417.4 ppb	10:38:25
2	Pb 220.353†	2432.8	2174.9	512.46 ug/L	512.46 ppb	10:38:25
2	S 181.975 Axial†	503.4	401.8	986.89 ug/L	986.89 ppb	10:38:25
2	Sb 206.836†	1003.1	832.7	525.82 ug/L	525.82 ppb	10:38:25
2	Se 196.026†	481.6	443.8	529.70 ug/L	529.70 ppb	10:38:25
2	Si 251.611†	52387.2	44908.1	2506.7 ug/L	2506.7 ppb	10:38:05
2	Sn 189.927†	1715.4	1479.2	510.46 ug/L	510.46 ppb	10:38:25
2	Ti 334.940†	217058.7	189945.9	505.25 ug/L	505.25 ppb	10:38:05
2	Tl 190.801†	1003.9	898.9	518.09 ug/L	518.09 ppb	10:38:25
2	U 409.014†	8152.7	9820.3	536.87 ug/L	536.87 ppb	10:38:05
2	V 292.402†	41928.0	38000.4	509.81 ug/L	509.81 ppb	10:38:05
2	Zn 213.857†	33610.7	28538.3	501.33 ug/L	501.33 ppb	10:38:05
2	SiO2†	57015.4	48927.2	5834.8 ug/L	5834.8 ppb	10:39:02
3	Sc Radial	3304.7	3304.7	105 %		10:37:32
3	Y RADIAL	3755.5	3755.5	109.4 %		10:37:12
3	Al 396.153Radial†	3837.8	3738.8	4893.2 ug/L	4893.2 ppb	10:37:12
3	Ca 317.933Radial†	2179.4	2055.2	4850.9 ug/L	4850.9 ppb	10:37:32
3	Fe 238.204 Radial†	334.9	312.2	5119.7 ug/L	5119.7 ppb	10:37:32
3	K 766.490 Radial†	25666.5	21593.1	5410.0 ug/L	5410.0 ppb	10:37:12
3	Mg 279.077 IEC†	103.8	97.3	5137.0 ug/L	5137.0 ppb	10:37:32
3	Na 589.592 Radial†	17971.3	17704.3	10074 ug/L	10074 ppb	10:37:12
3	Sr 421.552†	42797.1	40682.4	517.85 ug/L	517.85 ppb	10:37:12
3	Sc 361.383	630353.9	630353.9	127.18 %		10:38:31
3	Y 371.029	492381.2	492381.2	118.96 %		10:38:31
3	Ag 328.068†	77556.8	60863.0	508.29 ug/L	508.29 ppb	10:38:31
3	As 188.979†	773.5	630.9	495.37 ug/L	495.37 ppb	10:38:51
3	B 249.677†	17074.6	13833.8	532.19 ug/L	532.19 ppb	10:38:31
3	Ba 233.527†	44602.4	35078.9	506.73 ug/L	506.73 ppb	10:38:31
3	Be 313.107†	1024193.0	809220.8	500.08 ug/L	500.08 ppb	10:38:31
3	Cd 226.502†	28569.4	22667.1	509.34 ug/L	509.34 ppb	10:38:31
3	Co 228.616†	16471.8	13009.6	478.35 ug/L	478.35 ppb	10:38:51
3	Cr 267.716†	29068.0	22780.1	506.84 ug/L	506.84 ppb	10:38:31
3	Cu 324.752†	131236.9	97969.3	503.21 ug/L	503.21 ppb	10:38:31
3	Mn 257.610†	332335.1	260895.4	508.13 ug/L	508.13 ppb	10:38:31
3	Mo 202.031†	4427.4	3475.7	487.28 ug/L	487.28 ppb	10:38:51
3	Ni 231.604†	13325.5	10401.1	504.20 ug/L	504.20 ppb	10:38:31
3	P 214.914†	3259.8	2348.9	2288.7 ug/L	2288.7 ppb	10:38:51
3	Pb 220.353†	2564.0	2078.2	489.81 ug/L	489.81 ppb	10:38:51
3	S 181.975 Axial†	548.1	395.6	971.58 ug/L	971.58 ppb	10:38:51
3	Sb 206.836†	1044.2	782.6	494.40 ug/L	494.40 ppb	10:38:51
3	Se 196.026†	501.0	419.4	501.69 ug/L	501.69 ppb	10:38:51
3	Si 251.611†	58450.3	45370.3	2532.9 ug/L	2532.9 ppb	10:38:31
3	Sn 189.927†	1807.4	1410.5	486.86 ug/L	486.86 ppb	10:38:51
3	Ti 334.940†	240683.1	190683.7	507.20 ug/L	507.20 ppb	10:38:31
3	Tl 190.801†	1040.6	845.3	487.48 ug/L	487.48 ppb	10:38:51
3	U 409.014†	9373.0	10109.9	552.75 ug/L	552.75 ppb	10:38:31
3	V 292.402†	46536.7	38178.6	511.86 ug/L	511.86 ppb	10:38:31
3	Zn 213.857†	37268.6	28652.4	503.33 ug/L	503.33 ppb	10:38:31
3	SiO2†	58721.3	45583.0	5435.7 ug/L	5435.7 ppb	10:39:07

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	616202.0	124.32 %	8.136			6.54%
Sc Radial	3334.7	106 %	0.8			0.78%
Y 371.029	481115.1	116.24 %	7.304			6.28%
Y RADIAL	3708.3	108.0 %	8.14			7.54%
Ag 328.068†	60852.9	508.21 ug/L	0.910	508.21 ppb	0.910	0.18%
QC value within limits for Ag 328.068 Recovery = 101.64%						
Al 396.153Radial†	3621.9	4739.3 ug/L	356.58	4739.3 ppb	356.58	7.52%
QC value within limits for Al 396.153Radial Recovery = 94.79%						
As 188.979†	629.2	494.08 ug/L	21.282	494.08 ppb	21.282	4.31%
QC value within limits for As 188.979 Recovery = 98.82%						
B 249.677†	13844.0	532.57 ug/L	4.742	532.57 ppb	4.742	0.89%
QC value within limits for B 249.677 Recovery = 106.51%						
Ba 233.527†	35145.1	507.68 ug/L	0.829	507.68 ppb	0.829	0.16%
QC value within limits for Ba 233.527 Recovery = 101.54%						
Be 313.107†	807810.1	499.21 ug/L	2.635	499.21 ppb	2.635	0.53%
QC value within limits for Be 313.107 Recovery = 99.84%						
Ca 317.933Radial†	2048.8	4835.7 ug/L	13.61	4835.7 ppb	13.61	0.28%

QC value within limits for Ca 317.933 Radial Recovery = 96.71%						
Cd 226.502†	22641.1	508.75 ug/L	2.919	508.75 ppb	2.919	0.57%
QC value within limits for Cd 226.502 Recovery = 101.75%						
Co 228.616†	13089.8	481.30 ug/L	20.855	481.30 ppb	20.855	4.33%
QC value within limits for Co 228.616 Recovery = 96.26%						
Cr 267.716†	22798.7	507.25 ug/L	0.440	507.25 ppb	0.440	0.09%
QC value within limits for Cr 267.716 Recovery = 101.45%						
Cu 324.752†	97857.5	502.64 ug/L	4.114	502.64 ppb	4.114	0.82%
QC value within limits for Cu 324.752 Recovery = 100.53%						
Fe 238.204 Radial†	311.6	5110.4 ug/L	18.93	5110.4 ppb	18.93	0.37%
QC value within limits for Fe 238.204 Radial Recovery = 102.21%						
K 766.490 Radial†	20960.8	5251.5 ug/L	404.70	5251.5 ppb	404.70	7.71%
QC value within limits for K 766.490 Radial Recovery = 105.03%						
Mg 279.077 IEC†	96.5	5095.0 ug/L	60.12	5095.0 ppb	60.12	1.18%
QC value within limits for Mg 279.077 IEC Recovery = 101.90%						
Mn 257.610†	261219.6	508.77 ug/L	1.679	508.77 ppb	1.679	0.33%
QC value within limits for Mn 257.610 Recovery = 101.75%						
Mo 202.031†	3488.2	489.03 ug/L	21.667	489.03 ppb	21.667	4.43%
QC value within limits for Mo 202.031 Recovery = 97.81%						
Na 589.592 Radial†	17238.1	9808.4 ug/L	779.22	9808.4 ppb	779.22	7.94%
QC value within limits for Na 589.592 Radial Recovery = 98.08%						
Ni 231.604†	10401.4	504.21 ug/L	2.135	504.21 ppb	2.135	0.42%
QC value within limits for Ni 231.604 Recovery = 100.84%						
P 214.914†	2363.1	2303.3 ug/L	107.56	2303.3 ppb	107.56	4.67%
QC value within limits for P 214.914 Recovery = 92.13%						
Pb 220.353†	2087.1	491.88 ug/L	19.627	491.88 ppb	19.627	3.99%
QC value within limits for Pb 220.353 Recovery = 98.38%						
S 181.975 Axial†	391.9	962.30 ug/L	30.312	962.30 ppb	30.312	3.15%
QC value within limits for S 181.975 Axial Recovery = 96.23%						
Sb 206.836†	793.7	501.26 ug/L	21.948	501.26 ppb	21.948	4.38%
QC value within limits for Sb 206.836 Recovery = 100.25%						
Se 196.026†	423.5	506.31 ug/L	21.452	506.31 ppb	21.452	4.24%
QC value within limits for Se 196.026 Recovery = 101.26%						
Si 251.611†	45348.6	2531.7 ug/L	24.33	2531.7 ppb	24.33	0.96%
QC value within limits for Si 251.611 Recovery = 101.27%						
Sn 189.927†	1418.2	489.47 ug/L	19.805	489.47 ppb	19.805	4.05%
QC value within limits for Sn 189.927 Recovery = 97.89%						
Sr 421.552†	39525.0	503.12 ug/L	38.153	503.12 ppb	38.153	7.58%
QC value within limits for Sr 421.552 Recovery = 100.62%						
Ti 334.940†	190622.6	507.04 ug/L	1.719	507.04 ppb	1.719	0.34%
QC value within limits for Ti 334.940 Recovery = 101.41%						
Tl 190.801†	854.1	492.51 ug/L	23.478	492.51 ppb	23.478	4.77%
QC value within limits for Tl 190.801 Recovery = 98.50%						
U 409.014†	9961.2	544.59 ug/L	7.949	544.59 ppb	7.949	1.46%
QC value within limits for U 409.014 Recovery = 108.92%						
V 292.402†	38124.7	511.15 ug/L	1.160	511.15 ppb	1.160	0.23%
QC value within limits for V 292.402 Recovery = 102.23%						
Zn 213.857†	28692.1	504.03 ug/L	3.115	504.03 ppb	3.115	0.62%
QC value within limits for Zn 213.857 Recovery = 100.81%						
SiO2†	46383.4	5531.3 ug/L	268.74	5531.3 ppb	268.74	4.86%
QC value within limits for SiO2 Recovery = 103.44%						

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/29/2010 10:41:17

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	3177.2	3177.2	101 %		10:43:29
1	Y RADIAL	3855.3	3855.3	112.3 %		10:43:09
1	Al 396.153Radial†	-91.4	-2.7	-3.4389 ug/L	-3.4389 ppb	10:43:29
1	Ca 317.933Radial†	19.2	0.9	2.0260 ug/L	2.0260 ppb	10:43:29
1	Fe 238.204 Radial†	6.9	0.4	6.4644 ug/L	6.4644 ppb	10:43:29
1	K 766.490 Radial†	3334.7	475.3	119.20 ug/L	119.20 ppb	10:43:09
1	Mg 279.077 IEC†	1.7	0.2	13.093 ug/L	13.093 ppb	10:43:29
1	Na 589.592 Radial†	-540.9	72.3	41.146 ug/L	41.146 ppb	10:43:09
1	Sr 421.552†	51.3	18.5	0.2358 ug/L	0.2358 ppb	10:43:09
1	Sc 361.383	509336.3	509336.3	102.76 %		10:44:26
1	Y 371.029	428123.4	428123.4	103.44 %		10:44:26
1	Ag 328.068†	176.2	51.0	0.4152 ug/L	0.4152 ppb	10:44:26
1	As 188.979†	-24.1	-0.8	-0.6334 ug/L	-0.6334 ppb	10:44:46
1	B 249.677†	201.7	604.3	23.340 ug/L	23.340 ppb	10:44:26
1	Ba 233.527†	-9.7	-1.7	-0.0256 ug/L	-0.0256 ppb	10:44:46
1	Be 313.107†	-4062.8	-63.0	-0.0385 ug/L	-0.0385 ppb	10:44:26
1	Cd 226.502†	-201.7	6.5	0.1480 ug/L	0.1480 ppb	10:44:46
1	Co 228.616†	-48.9	10.2	0.3709 ug/L	0.3709 ppb	10:44:46
1	Cr 267.716†	79.5	1.1	0.0209 ug/L	0.0209 ppb	10:44:46
1	Cu 324.752†	5445.1	75.5	0.3827 ug/L	0.3827 ppb	10:44:26
1	Mn 257.610†	470.7	36.0	0.0702 ug/L	0.0702 ppb	10:44:46
1	Mo 202.031†	-1.7	-7.3	-1.0167 ug/L	-1.0167 ppb	10:44:46
1	Ni 231.604†	68.2	-10.5	-0.5083 ug/L	-0.5083 ppb	10:44:46
1	P 214.914†	226.2	5.8	5.8867 ug/L	5.8867 ppb	10:44:46
1	Pb 220.353†	-58.5	5.1	1.2007 ug/L	1.2007 ppb	10:44:46
1	S 181.975 Axial†	42.1	5.6	13.773 ug/L	13.773 ppb	10:44:46
1	Sb 206.836†	45.3	5.6	3.4274 ug/L	3.4274 ppb	10:44:46
1	Se 196.026†	-31.2	-4.9	-5.6084 ug/L	-5.6084 ppb	10:44:46
1	Si 251.611†	596.5	-9.1	-0.4967 ug/L	-0.4967 ppb	10:44:46
1	Sn 189.927†	19.2	8.1	2.7738 ug/L	2.7738 ppb	10:44:46
1	Ti 334.940†	-1416.2	54.7	0.1402 ug/L	0.1402 ppb	10:44:26
1	Tl 190.801†	-30.8	-2.9	-1.6606 ug/L	-1.6606 ppb	10:44:46
1	U 409.014†	-2623.1	187.2	10.263 ug/L	10.263 ppb	10:44:26
1	V 292.402†	-1666.3	-35.1	-0.4601 ug/L	-0.4601 ppb	10:44:26
1	Zn 213.857†	711.3	40.0	0.7110 ug/L	0.7110 ppb	10:44:46
1	SiO2†	609.3	2.9	0.3797 ug/L	0.3797 ppb	10:45:42
2	Sc Radial	3605.3	3605.3	115 %		10:43:55
2	Y RADIAL	4026.2	4026.2	117.3 %		10:43:35
2	Al 396.153Radial†	-91.0	8.4	10.985 ug/L	10.985 ppb	10:43:55
2	Ca 317.933Radial†	24.4	3.1	7.3856 ug/L	7.3856 ppb	10:43:55
2	Fe 238.204 Radial†	8.5	1.0	16.251 ug/L	16.251 ppb	10:43:55
2	K 766.490 Radial†	3155.8	-72.6	-18.242 ug/L	-18.242 ppb	10:43:35
2	Mg 279.077 IEC†	1.3	-0.3	-17.002 ug/L	-17.002 ppb	10:43:55
2	Na 589.592 Radial†	-574.7	106.4	60.520 ug/L	60.520 ppb	10:43:35
2	Sr 421.552†	20.5	-14.4	-0.1832 ug/L	-0.1832 ppb	10:43:35
2	Sc 361.383	505858.3	505858.3	102.06 %		10:44:51
2	Y 371.029	425207.2	425207.2	102.73 %		10:44:51
2	Ag 328.068†	53.7	-67.9	-0.5523 ug/L	-0.5523 ppb	10:44:51
2	As 188.979†	-22.8	0.2	0.1923 ug/L	0.1923 ppb	10:45:11
2	B 249.677†	141.1	546.2	21.096 ug/L	21.096 ppb	10:44:51
2	Ba 233.527†	4.4	12.0	0.1736 ug/L	0.1736 ppb	10:45:11
2	Be 313.107†	-3981.5	-10.5	-0.0066 ug/L	-0.0066 ppb	10:44:51
2	Cd 226.502†	-196.1	10.7	0.2374 ug/L	0.2374 ppb	10:45:11
2	Co 228.616†	-44.2	14.4	0.5315 ug/L	0.5315 ppb	10:45:11
2	Cr 267.716†	88.3	10.3	0.2333 ug/L	0.2333 ppb	10:45:11
2	Cu 324.752†	5372.7	41.0	0.2150 ug/L	0.2150 ppb	10:44:51
2	Mn 257.610†	470.4	38.9	0.0780 ug/L	0.0780 ppb	10:45:11
2	Mo 202.031†	12.9	7.1	0.9943 ug/L	0.9943 ppb	10:45:11
2	Ni 231.604†	84.0	5.4	0.2630 ug/L	0.2630 ppb	10:45:11

2	P 214.914†	219.8	1.1	1.0740 ug/L	1.0740 ppb	10:45:11
2	Pb 220.353†	-59.4	3.9	0.9185 ug/L	0.9185 ppb	10:45:11
2	S 181.975 Axial†	25.8	-10.1	-24.767 ug/L	-24.767 ppb	10:45:11
2	Sb 206.836†	52.4	12.8	7.8800 ug/L	7.8800 ppb	10:45:11
2	Se 196.026†	-26.3	-0.3	-0.2555 ug/L	-0.2555 ppb	10:45:11
2	Si 251.611†	572.9	-28.2	-1.5903 ug/L	-1.5903 ppb	10:45:11
2	Sn 189.927†	20.2	9.2	3.1511 ug/L	3.1511 ppb	10:45:11
2	Ti 334.940†	-1491.7	-28.7	-0.0714 ug/L	-0.0714 ppb	10:44:51
2	Tl 190.801†	-32.7	-5.0	-2.8612 ug/L	-2.8612 ppb	10:45:11
2	U 409.014†	-2910.0	-111.4	-6.1147 ug/L	-6.1147 ppb	10:44:51
2	V 292.402†	-1598.7	20.0	0.2645 ug/L	0.2645 ppb	10:44:51
2	Zn 213.857†	712.1	45.6	0.8047 ug/L	0.8047 ppb	10:45:11
2	SiO2†	639.3	36.4	4.3252 ug/L	4.3252 ppb	10:45:47
3	Sc Radial	3435.4	3435.4	109 %		10:44:20
3	Y RADIAL	3758.4	3758.4	109.5 %		10:44:00
3	Al 396.153Radial†	-89.5	5.8	7.6020 ug/L	7.6020 ppb	10:44:20
3	Ca 317.933Radial†	21.3	1.4	3.3096 ug/L	3.3096 ppb	10:44:20
3	Fe 238.204 Radial†	6.8	-0.2	-3.6713 ug/L	-3.6713 ppb	10:44:20
3	K 766.490 Radial†	3367.9	257.6	64.598 ug/L	64.598 ppb	10:44:00
3	Mg 279.077 IEC†	0.2	-1.3	-66.368 ug/L	-66.368 ppb	10:44:20
3	Na 589.592 Radial†	-539.4	113.8	64.780 ug/L	64.780 ppb	10:44:00
3	Sr 421.552†	-2.2	-34.3	-0.4367 ug/L	-0.4367 ppb	10:44:00
3	Sc 361.383	494343.5	494343.5	99.736 %		10:45:17
3	Y 371.029	412397.9	412397.9	99.637 %		10:45:17
3	Ag 328.068†	176.8	56.9	0.4659 ug/L	0.4659 ppb	10:45:17
3	As 188.979†	-16.2	6.4	4.9677 ug/L	4.9677 ppb	10:45:37
3	B 249.677†	164.6	573.0	22.133 ug/L	22.133 ppb	10:45:17
3	Ba 233.527†	-4.9	2.8	0.0383 ug/L	0.0383 ppb	10:45:37
3	Be 313.107†	-3816.7	63.8	0.0394 ug/L	0.0394 ppb	10:45:17
3	Cd 226.502†	-194.2	8.1	0.1830 ug/L	0.1830 ppb	10:45:37
3	Co 228.616†	-49.2	8.4	0.3110 ug/L	0.3110 ppb	10:45:37
3	Cr 267.716†	99.4	23.4	0.5179 ug/L	0.5179 ppb	10:45:37
3	Cu 324.752†	5217.4	8.0	0.0403 ug/L	0.0403 ppb	10:45:17
3	Mn 257.610†	427.4	6.5	0.0149 ug/L	0.0149 ppb	10:45:37
3	Mo 202.031†	11.2	5.6	0.7866 ug/L	0.7866 ppb	10:45:37
3	Ni 231.604†	81.2	4.6	0.2206 ug/L	0.2206 ppb	10:45:37
3	P 214.914†	219.2	5.5	5.5518 ug/L	5.5518 ppb	10:45:37
3	Pb 220.353†	-39.1	22.9	5.3717 ug/L	5.3717 ppb	10:45:37
3	S 181.975 Axial†	40.3	5.0	12.384 ug/L	12.384 ppb	10:45:37
3	Sb 206.836†	37.0	-1.4	-0.8301 ug/L	-0.8301 ppb	10:45:37
3	Se 196.026†	-31.1	-5.7	-6.5998 ug/L	-6.5998 ppb	10:45:37
3	Si 251.611†	560.2	-27.8	-1.5677 ug/L	-1.5677 ppb	10:45:37
3	Sn 189.927†	10.6	-0.1	-0.0222 ug/L	-0.0222 ppb	10:45:37
3	Ti 334.940†	-1431.2	-2.1	-0.0002 ug/L	-0.0002 ppb	10:45:17
3	Tl 190.801†	-33.2	-6.2	-3.5532 ug/L	-3.5532 ppb	10:45:37
3	U 409.014†	-2720.6	12.0	0.6560 ug/L	0.6560 ppb	10:45:17
3	V 292.402†	-1663.9	-81.9	-1.0730 ug/L	-1.0730 ppb	10:45:17
3	Zn 213.857†	705.6	55.3	0.9793 ug/L	0.9793 ppb	10:45:37
3	SiO2†	604.7	16.3	1.9276 ug/L	1.9276 ppb	10:45:52

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	503179.4	101.52 %	1.583			1.56%
Sc Radial	3405.9	108 %	6.9			6.33%
Y 371.029	421909.5	101.93 %	2.021			1.98%
Y RADIAL	3880.0	113.0 %	3.95			3.49%
Ag 328.068†	13.3	0.1096 ug/L	0.57376	0.1096 ppb	0.57376	523.56%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	3.8	5.0495 ug/L	7.54330	5.0495 ppb	7.54330	149.39%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.9	1.5088 ug/L	3.02378	1.5088 ppb	3.02378	200.40%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	574.5	22.189 ug/L	1.1229	22.189 ppb	1.1229	5.06%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.4	0.0621 ug/L	0.10170	0.0621 ppb	0.10170	163.82%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-3.2	-0.0019 ug/L	0.03915	-0.0019 ppb	0.03915	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.8	4.2404 ug/L	2.79842	4.2404 ppb	2.79842	65.99%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	8.4	0.1894 ug/L	0.04505	0.1894 ppb	0.04505	23.78%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	11.0	0.4045 ug/L	0.11402	0.4045 ppb	0.11402	28.19%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	11.6	0.2573 ug/L	0.24938	0.2573 ppb	0.24938	96.91%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	41.5	0.2127 ug/L	0.17119	0.2127 ppb	0.17119	80.49%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	0.4	6.3479 ug/L	9.96141	6.3479 ppb	9.96141	156.93%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	220.1	55.186 ug/L	69.2040	55.186 ppb	69.2040	125.40%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-0.4	-23.425 ug/L	40.1178	-23.425 ppb	40.1178	171.26%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	27.1	0.0544 ug/L	0.03437	0.0544 ppb	0.03437	63.22%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	1.8	0.2548 ug/L	1.10597	0.2548 ppb	1.10597	434.13%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	97.5	55.482 ug/L	12.5965	55.482 ppb	12.5965	22.70%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-0.2	-0.0082 ug/L	0.43360	-0.0082 ppb	0.43360	>999.9%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	4.1	4.1708 ug/L	2.68712	4.1708 ppb	2.68712	64.43%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	10.6	2.4970 ug/L	2.49359	2.4970 ppb	2.49359	99.87%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	0.2	0.4635 ug/L	21.86099	0.4635 ppb	21.86099	>999.9%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	5.7	3.4924 ug/L	4.35541	3.4924 ppb	4.35541	124.71%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	-3.6	-4.1545 ug/L	3.41287	-4.1545 ppb	3.41287	82.15%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	-21.7	-1.2183 ug/L	0.62498	-1.2183 ppb	0.62498	51.30%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	5.7	1.9676 ug/L	1.73350	1.9676 ppb	1.73350	88.10%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-10.1	-0.1280 ug/L	0.33959	-0.1280 ppb	0.33959	265.24%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	8.0	0.0229 ug/L	0.10768	0.0229 ppb	0.10768	470.35%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	-4.7	-2.6917 ug/L	0.95761	-2.6917 ppb	0.95761	35.58%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	29.2	1.6015 ug/L	8.22979	1.6015 ppb	8.22979	513.87%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	-32.3	-0.4229 ug/L	0.66951	-0.4229 ppb	0.66951	158.31%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	47.0	0.8317 ug/L	0.13615	0.8317 ppb	0.13615	16.37%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		18.6	2.2108 ug/L	1.98794	2.2108 ppb	1.98794	89.92%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Sequence No.: 3

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/29/2010 11:00:38

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	3306.7	3306.7	105 %		11:02:50
1	Y RADIAL	3379.3	3379.3	98.46 %		11:02:30
1	Al 396.153Radial†	3439.9	3358.3	4392.7 ug/L	4392.7 ppb	11:02:30
1	Ca 317.933Radial†	2189.7	2063.8	4871.2 ug/L	4871.2 ppb	11:02:50
1	Fe 238.204 Radial†	331.7	309.0	5067.9 ug/L	5067.9 ppb	11:02:50
1	K 766.490 Radial†	22477.8	18546.8	4646.4 ug/L	4646.4 ppb	11:02:30
1	Mg 279.077 IEC†	102.0	95.5	5044.2 ug/L	5044.2 ppb	11:02:50
1	Na 589.592 Radial†	15469.3	15315.3	8714.3 ug/L	8714.3 ppb	11:02:30
1	Sr 421.552†	37778.1	35886.3	456.80 ug/L	456.80 ppb	11:02:30
1	Sc 361.383	617047.6	617047.6	124.49 %		11:03:47
1	Y 371.029	424627.3	424627.3	102.59 %		11:03:52
1	Ag 328.068†	76149.9	61048.0	509.83 ug/L	509.83 ppb	11:03:52
1	As 188.979†	757.1	630.8	495.20 ug/L	495.20 ppb	11:04:12
1	B 249.677†	15904.0	13183.0	506.98 ug/L	506.98 ppb	11:03:52
1	Ba 233.527†	43618.5	35044.9	506.23 ug/L	506.23 ppb	11:03:52
1	Be 313.107†	1010268.9	815402.7	503.87 ug/L	503.87 ppb	11:03:47
1	Cd 226.502†	27834.7	22561.4	506.96 ug/L	506.96 ppb	11:03:52
1	Co 228.616†	17023.9	13732.4	504.95 ug/L	504.95 ppb	11:03:52
1	Cr 267.716†	28459.9	22784.6	506.94 ug/L	506.94 ppb	11:03:52
1	Cu 324.752†	127959.2	97561.7	501.13 ug/L	501.13 ppb	11:03:52
1	Mn 257.610†	319841.1	256494.6	499.57 ug/L	499.57 ppb	11:03:52
1	Mo 202.031†	4345.8	3485.2	488.61 ug/L	488.61 ppb	11:04:12
1	Ni 231.604†	13049.7	10405.5	504.40 ug/L	504.40 ppb	11:03:52
1	P 214.914†	3219.7	2372.0	2312.5 ug/L	2312.5 ppb	11:04:12
1	Pb 220.353†	2507.8	2076.5	489.30 ug/L	489.30 ppb	11:04:12
1	S 181.975 Axial†	539.2	397.8	976.90 ug/L	976.90 ppb	11:04:12
1	Sb 206.836†	1043.3	799.6	504.88 ug/L	504.88 ppb	11:04:12
1	Se 196.026†	492.0	420.7	502.91 ug/L	502.91 ppb	11:04:12
1	Si 251.611†	57071.9	45254.3	2526.4 ug/L	2526.4 ppb	11:03:52
1	Sn 189.927†	1786.3	1424.2	491.55 ug/L	491.55 ppb	11:04:12
1	Ti 334.940†	231130.7	187091.7	497.66 ug/L	497.66 ppb	11:03:52
1	Tl 190.801†	1027.3	852.2	491.24 ug/L	491.24 ppb	11:04:12
1	U 409.014†	8539.5	9599.2	524.75 ug/L	524.75 ppb	11:03:52
1	V 292.402†	45475.0	38114.8	510.99 ug/L	510.99 ppb	11:03:52
1	Zn 213.857†	36462.1	28636.5	503.06 ug/L	503.06 ppb	11:03:52
1	SiO2†	56592.9	44869.0	5350.3 ug/L	5350.3 ppb	11:05:19
2	Sc Radial	3358.6	3358.6	107 %		11:03:15
2	Y RADIAL	3606.9	3606.9	105.1 %		11:02:55
2	Al 396.153Radial†	3664.8	3518.3	4603.5 ug/L	4603.5 ppb	11:02:55
2	Ca 317.933Radial†	2228.5	2067.9	4880.8 ug/L	4880.8 ppb	11:03:15
2	Fe 238.204 Radial†	339.5	311.4	5107.1 ug/L	5107.1 ppb	11:03:15
2	K 766.490 Radial†	23752.4	19409.4	4862.6 ug/L	4862.6 ppb	11:02:55
2	Mg 279.077 IEC†	108.1	99.7	5263.9 ug/L	5263.9 ppb	11:03:15
2	Na 589.592 Radial†	16458.9	16014.1	9111.9 ug/L	9111.9 ppb	11:02:55
2	Sr 421.552†	40218.3	37614.8	478.80 ug/L	478.80 ppb	11:02:55
2	Sc 361.383	623645.7	623645.7	125.82 %		11:04:18
2	Y 371.029	425720.9	425720.9	102.86 %		11:04:23
2	Ag 328.068†	75791.7	60116.1	502.10 ug/L	502.10 ppb	11:04:23
2	As 188.979†	745.9	615.4	483.25 ug/L	483.25 ppb	11:04:43
2	B 249.677†	15896.0	13041.5	501.52 ug/L	501.52 ppb	11:04:23
2	Ba 233.527†	43722.6	34756.9	502.08 ug/L	502.08 ppb	11:04:23
2	Be 313.107†	1023236.8	817123.4	504.92 ug/L	504.92 ppb	11:04:18
2	Cd 226.502†	28008.8	22463.2	504.74 ug/L	504.74 ppb	11:04:23
2	Co 228.616†	17088.6	13639.2	501.51 ug/L	501.51 ppb	11:04:23
2	Cr 267.716†	28499.1	22573.8	502.27 ug/L	502.27 ppb	11:04:23
2	Cu 324.752†	127276.2	95931.4	492.76 ug/L	492.76 ppb	11:04:23
2	Mn 257.610†	320689.5	254450.7	495.58 ug/L	495.58 ppb	11:04:23
2	Mo 202.031†	4315.7	3424.4	480.09 ug/L	480.09 ppb	11:04:43
2	Ni 231.604†	13063.7	10305.7	499.56 ug/L	499.56 ppb	11:04:23

2	P 214.914†	3205.1	2333.0	2274.5 ug/L	2274.5 ppb	11:04:43
2	Pb 220.353†	2518.0	2063.3	486.23 ug/L	486.23 ppb	11:04:43
2	S 181.975 Axial†	528.1	384.4	943.89 ug/L	943.89 ppb	11:04:43
2	Sb 206.836†	1021.9	773.7	488.85 ug/L	488.85 ppb	11:04:43
2	Se 196.026†	492.5	416.9	498.65 ug/L	498.65 ppb	11:04:43
2	Si 251.611†	57112.5	44801.4	2501.2 ug/L	2501.2 ppb	11:04:23
2	Sn 189.927†	1783.6	1406.9	485.59 ug/L	485.59 ppb	11:04:43
2	Ti 334.940†	231077.2	185084.9	492.31 ug/L	492.31 ppb	11:04:23
2	Tl 190.801†	1023.3	840.3	484.37 ug/L	484.37 ppb	11:04:43
2	U 409.014†	8431.9	9441.2	516.09 ug/L	516.09 ppb	11:04:23
2	V 292.402†	45662.1	37877.0	507.71 ug/L	507.71 ppb	11:04:23
2	Zn 213.857†	36409.9	28285.2	496.86 ug/L	496.86 ppb	11:04:23
2	SiO2†	57724.1	45287.1	5400.5 ug/L	5400.5 ppb	11:05:24
3	Sc Radial	3339.5	3339.5	106 %		11:03:40
3	Y RADIAL	3699.2	3699.2	107.8 %		11:03:20
3	Al 396.153Radial†	3784.7	3650.8	4774.8 ug/L	4774.8 ppb	11:03:20
3	Ca 317.933Radial†	2207.7	2060.3	4862.8 ug/L	4862.8 ppb	11:03:40
3	Fe 238.204 Radial†	336.2	310.1	5085.1 ug/L	5085.1 ppb	11:03:40
3	K 766.490 Radial†	24225.5	19982.4	5006.2 ug/L	5006.2 ppb	11:03:20
3	Mg 279.077 IEC†	104.7	97.1	5129.1 ug/L	5129.1 ppb	11:03:40
3	Na 589.592 Radial†	16954.3	16568.9	9427.6 ug/L	9427.6 ppb	11:03:20
3	Sr 421.552†	41383.3	38927.7	495.51 ug/L	495.51 ppb	11:03:20
3	Sc 361.383	572101.0	572101.0	115.42 %		11:04:48
3	Y 371.029	404237.2	404237.2	97.665 %		11:04:54
3	Ag 328.068†	68255.2	59013.8	492.89 ug/L	492.89 ppb	11:04:54
3	As 188.979†	783.6	701.5	550.00 ug/L	550.00 ppb	11:05:14
3	B 249.677†	14048.4	12579.1	483.70 ug/L	483.70 ppb	11:04:54
3	Ba 233.527†	39270.3	34030.4	491.58 ug/L	491.58 ppb	11:04:54
3	Be 313.107†	926046.2	806190.2	498.15 ug/L	498.15 ppb	11:04:48
3	Cd 226.502†	24727.6	21626.1	485.92 ug/L	485.92 ppb	11:04:54
3	Co 228.616†	15237.2	13258.8	487.69 ug/L	487.69 ppb	11:04:54
3	Cr 267.716†	25549.3	22058.9	490.82 ug/L	490.82 ppb	11:04:54
3	Cu 324.752†	113743.2	93320.5	479.35 ug/L	479.35 ppb	11:04:54
3	Mn 257.610†	287237.5	248432.2	483.87 ug/L	483.87 ppb	11:04:54
3	Mo 202.031†	4478.7	3874.6	543.15 ug/L	543.15 ppb	11:05:14
3	Ni 231.604†	11598.4	9971.7	483.37 ug/L	483.37 ppb	11:04:54
3	P 214.914†	3317.0	2659.5	2609.6 ug/L	2609.6 ppb	11:05:14
3	Pb 220.353†	2583.7	2300.5	542.15 ug/L	542.15 ppb	11:05:14
3	S 181.975 Axial†	555.6	446.0	1095.4 ug/L	1095.4 ppb	11:05:14
3	Sb 206.836†	1062.1	881.7	556.84 ug/L	556.84 ppb	11:05:14
3	Se 196.026†	511.3	468.5	558.47 ug/L	558.47 ppb	11:05:14
3	Si 251.611†	50626.5	43271.8	2414.8 ug/L	2414.8 ppb	11:04:54
3	Sn 189.927†	1835.3	1579.4	544.93 ug/L	544.93 ppb	11:05:14
3	Ti 334.940†	207387.6	181107.4	481.74 ug/L	481.74 ppb	11:04:54
3	Tl 190.801†	1070.6	954.6	549.72 ug/L	549.72 ppb	11:05:14
3	U 409.014†	7643.4	9361.8	511.76 ug/L	511.76 ppb	11:04:54
3	V 292.402†	40721.0	36865.9	495.23 ug/L	495.23 ppb	11:04:54
3	Zn 213.857†	32412.1	27428.7	481.80 ug/L	481.80 ppb	11:04:54
3	SiO2†	55232.8	47262.1	5634.9 ug/L	5634.9 ppb	11:05:29

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	604264.8	121.91 %	5.659			4.64%
Sc Radial	3334.9	106 %	0.8			0.79%
Y 371.029	418195.1	101.04 %	2.923			2.89%
Y RADIAL	3561.8	103.8 %	4.80			4.62%
Ag 328.068†	60059.3	501.61 ug/L	8.478	501.61 ppb	8.478	1.69%
QC value within limits for Ag 328.068 Recovery = 100.32%						
Al 396.153Radial†	3509.1	4590.3 ug/L	191.37	4590.3 ppb	191.37	4.17%
QC value within limits for Al 396.153Radial Recovery = 91.81%						
As 188.979†	649.2	509.48 ug/L	35.594	509.48 ppb	35.594	6.99%
QC value within limits for As 188.979 Recovery = 101.90%						
B 249.677†	12934.5	497.40 ug/L	12.176	497.40 ppb	12.176	2.45%
QC value within limits for B 249.677 Recovery = 99.48%						
Ba 233.527†	34610.7	499.96 ug/L	7.552	499.96 ppb	7.552	1.51%
QC value within limits for Ba 233.527 Recovery = 99.99%						
Be 313.107†	812905.4	502.31 ug/L	3.641	502.31 ppb	3.641	0.72%
QC value within limits for Be 313.107 Recovery = 100.46%						
Ca 317.933Radial†	2064.0	4871.6 ug/L	8.99	4871.6 ppb	8.99	0.18%

QC value within limits for Ca 317.933 Radial Recovery = 97.43%						
Cd	226.502†	22216.9	499.21 ug/L	11.560	499.21 ppb	11.560 2.32%
QC value within limits for Cd 226.502 Recovery = 99.84%						
Co	228.616†	13543.5	498.05 ug/L	9.133	498.05 ppb	9.133 1.83%
QC value within limits for Co 228.616 Recovery = 99.61%						
Cr	267.716†	22472.4	500.01 ug/L	8.298	500.01 ppb	8.298 1.66%
QC value within limits for Cr 267.716 Recovery = 100.00%						
Cu	324.752†	95604.5	491.08 ug/L	10.986	491.08 ppb	10.986 2.24%
QC value within limits for Cu 324.752 Recovery = 98.22%						
Fe	238.204 Radial†	310.2	5086.7 ug/L	19.62	5086.7 ppb	19.62 0.39%
QC value within limits for Fe 238.204 Radial Recovery = 101.73%						
K	766.490 Radial†	19312.8	4838.4 ug/L	181.10	4838.4 ppb	181.10 3.74%
QC value within limits for K 766.490 Radial Recovery = 96.77%						
Mg	279.077 IEC†	97.5	5145.8 ug/L	110.81	5145.8 ppb	110.81 2.15%
QC value within limits for Mg 279.077 IEC Recovery = 102.92%						
Mn	257.610†	253125.8	493.01 ug/L	8.159	493.01 ppb	8.159 1.65%
QC value within limits for Mn 257.610 Recovery = 98.60%						
Mo	202.031†	3594.7	503.95 ug/L	34.213	503.95 ppb	34.213 6.79%
QC value within limits for Mo 202.031 Recovery = 100.79%						
Na	589.592 Radial†	15966.1	9084.6 ug/L	357.42	9084.6 ppb	357.42 3.93%
QC value within limits for Na 589.592 Radial Recovery = 90.85%						
Ni	231.604†	10227.6	495.77 ug/L	11.015	495.77 ppb	11.015 2.22%
QC value within limits for Ni 231.604 Recovery = 99.15%						
P	214.914†	2454.8	2398.9 ug/L	183.46	2398.9 ppb	183.46 7.65%
QC value within limits for P 214.914 Recovery = 95.95%						
Pb	220.353†	2146.7	505.89 ug/L	31.438	505.89 ppb	31.438 6.21%
QC value within limits for Pb 220.353 Recovery = 101.18%						
S	181.975 Axial†	409.4	1005.4 ug/L	79.66	1005.4 ppb	79.66 7.92%
QC value within limits for S 181.975 Axial Recovery = 100.54%						
Sb	206.836†	818.3	516.86 ug/L	35.542	516.86 ppb	35.542 6.88%
QC value within limits for Sb 206.836 Recovery = 103.37%						
Se	196.026†	435.4	520.01 ug/L	33.371	520.01 ppb	33.371 6.42%
QC value within limits for Se 196.026 Recovery = 104.00%						
Si	251.611†	44442.5	2480.8 ug/L	58.53	2480.8 ppb	58.53 2.36%
QC value within limits for Si 251.611 Recovery = 99.23%						
Sn	189.927†	1470.1	507.36 ug/L	32.673	507.36 ppb	32.673 6.44%
QC value within limits for Sn 189.927 Recovery = 101.47%						
Sr	421.552†	37476.2	477.04 ug/L	19.419	477.04 ppb	19.419 4.07%
QC value within limits for Sr 421.552 Recovery = 95.41%						
Ti	334.940†	184428.0	490.57 ug/L	8.101	490.57 ppb	8.101 1.65%
QC value within limits for Ti 334.940 Recovery = 98.11%						
Tl	190.801†	882.4	508.45 ug/L	35.911	508.45 ppb	35.911 7.06%
QC value within limits for Tl 190.801 Recovery = 101.69%						
U	409.014†	9467.4	517.54 ug/L	6.613	517.54 ppb	6.613 1.28%
QC value within limits for U 409.014 Recovery = 103.51%						
V	292.402†	37619.2	504.65 ug/L	8.317	504.65 ppb	8.317 1.65%
QC value within limits for V 292.402 Recovery = 100.93%						
Zn	213.857†	28116.8	493.91 ug/L	10.930	493.91 ppb	10.930 2.21%
QC value within limits for Zn 213.857 Recovery = 98.78%						
SiO2†		45806.0	5461.9 ug/L	151.90	5461.9 ppb	151.90 2.78%
QC value within limits for SiO2 Recovery = 102.14%						

All analyte(s) passed QC.

Sequence No.: 4

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/29/2010 11:07:39

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	3307.1	3307.1	105 %		11:09:52
1	Y RADIAL	3549.2	3549.2	103.4 %		11:09:52
1	Al 396.153Radial†	-90.0	2.2	2.8502 ug/L	2.8502 ppb	11:09:52
1	Ca 317.933Radial†	12.6	-6.1	-14.435 ug/L	-14.435 ppb	11:09:52
1	Fe 238.204 Radial†	7.2	0.4	6.7080 ug/L	6.7080 ppb	11:09:52
1	K 766.490 Radial†	2920.4	-48.2	-12.094 ug/L	-12.094 ppb	11:09:32
1	Mg 279.077 IEC†	3.8	2.1	112.46 ug/L	112.46 ppb	11:09:52
1	Na 589.592 Radial†	-578.7	57.4	32.645 ug/L	32.645 ppb	11:09:32
1	Sr 421.552†	30.4	-3.3	-0.0421 ug/L	-0.0421 ppb	11:09:32
1	Sc 361.383	601880.4	601880.4	121.43 %		11:10:49
1	Y 371.029	474224.1	474224.1	114.57 %		11:10:49
1	Ag 328.068†	121.8	-20.1	-0.1908 ug/L	-0.1908 ppb	11:10:49
1	As 188.979†	-20.6	5.7	4.4331 ug/L	4.4331 ppb	11:11:09
1	B 249.677†	-168.5	269.2	10.395 ug/L	10.395 ppb	11:11:09
1	Ba 233.527†	-10.8	-1.2	-0.0120 ug/L	-0.0120 ppb	11:11:09
1	Be 313.107†	-3951.8	636.3	0.3939 ug/L	0.3939 ppb	11:10:49
1	Cd 226.502†	-180.9	53.9	1.2179 ug/L	1.2179 ppb	11:11:09
1	Co 228.616†	-52.7	14.4	0.5266 ug/L	0.5266 ppb	11:11:09
1	Cr 267.716†	99.9	6.0	0.1200 ug/L	0.1200 ppb	11:11:09
1	Cu 324.752†	5314.8	-846.5	-4.3722 ug/L	-4.3722 ppb	11:10:49
1	Mn 257.610†	428.8	-69.0	-0.1382 ug/L	-0.1382 ppb	11:11:09
1	Mo 202.031†	4.0	-2.3	-0.3168 ug/L	-0.3168 ppb	11:11:09
1	Ni 231.604†	63.9	-24.2	-1.1745 ug/L	-1.1745 ppb	11:11:09
1	P 214.914†	209.7	-41.6	-41.406 ug/L	-41.406 ppb	11:11:09
1	Pb 220.353†	-58.1	14.2	3.3376 ug/L	3.3376 ppb	11:11:09
1	S 181.975 Axial†	37.3	-4.6	-11.278 ug/L	-11.278 ppb	11:11:09
1	Sb 206.836†	38.0	-7.2	-4.3823 ug/L	-4.3823 ppb	11:11:09
1	Se 196.026†	-27.4	3.0	3.4316 ug/L	3.4316 ppb	11:11:09
1	Si 251.611†	574.2	-116.7	-6.5251 ug/L	-6.5251 ppb	11:11:09
1	Sn 189.927†	16.0	2.5	0.8578 ug/L	0.8578 ppb	11:11:09
1	Ti 334.940†	-1416.2	266.6	0.6790 ug/L	0.6790 ppb	11:10:49
1	Tl 190.801†	-35.5	-2.2	-1.2725 ug/L	-1.2725 ppb	11:11:09
1	U 409.014†	-2350.0	804.6	44.127 ug/L	44.127 ppb	11:10:49
1	V 292.402†	-1695.7	190.0	2.5952 ug/L	2.5952 ppb	11:10:49
1	Zn 213.857†	691.7	-82.5	-1.4504 ug/L	-1.4504 ppb	11:11:09
1	SiO2†	594.4	-100.5	-12.010 ug/L	-12.010 ppb	11:12:05
2	Sc Radial	3141.8	3141.8	99.9 %		11:10:17
2	Y RADIAL	3379.2	3379.2	98.45 %		11:10:17
2	Al 396.153Radial†	-97.1	-9.4	-12.381 ug/L	-12.381 ppb	11:10:17
2	Ca 317.933Radial†	19.2	1.1	2.6123 ug/L	2.6123 ppb	11:10:17
2	Fe 238.204 Radial†	5.2	-1.2	-18.870 ug/L	-18.870 ppb	11:10:17
2	K 766.490 Radial†	3059.0	236.6	59.327 ug/L	59.327 ppb	11:09:57
2	Mg 279.077 IEC†	2.6	1.2	61.203 ug/L	61.203 ppb	11:10:17
2	Na 589.592 Radial†	-563.0	44.1	25.120 ug/L	25.120 ppb	11:09:57
2	Sr 421.552†	-4.5	-36.8	-0.4685 ug/L	-0.4685 ppb	11:09:57
2	Sc 361.383	617490.4	617490.4	124.58 %		11:11:14
2	Y 371.029	486323.2	486323.2	117.50 %		11:11:14
2	Ag 328.068†	84.2	-52.9	-0.4644 ug/L	-0.4644 ppb	11:11:14
2	As 188.979†	-25.8	1.9	1.4685 ug/L	1.4685 ppb	11:11:34
2	B 249.677†	-185.1	259.3	10.020 ug/L	10.020 ppb	11:11:34
2	Ba 233.527†	-14.4	-3.9	-0.0475 ug/L	-0.0475 ppb	11:11:34
2	Be 313.107†	-4032.2	654.1	0.4047 ug/L	0.4047 ppb	11:11:14
2	Cd 226.502†	-200.6	41.8	0.9494 ug/L	0.9494 ppb	11:11:34
2	Co 228.616†	-62.0	8.0	0.2941 ug/L	0.2941 ppb	11:11:34
2	Cr 267.716†	81.8	-10.6	-0.2487 ug/L	-0.2487 ppb	11:11:34
2	Cu 324.752†	5283.4	-982.3	-5.0715 ug/L	-5.0715 ppb	11:11:14
2	Mn 257.610†	429.5	-77.3	-0.1548 ug/L	-0.1548 ppb	11:11:34
2	Mo 202.031†	12.5	4.5	0.6226 ug/L	0.6226 ppb	11:11:34
2	Ni 231.604†	67.5	-22.7	-1.0994 ug/L	-1.0994 ppb	11:11:34

2	P 214.914†	210.7	-45.1	-44.859 ug/L	-44.859 ppb	11:11:34
2	Pb 220.353†	-62.1	12.2	2.8623 ug/L	2.8623 ppb	11:11:34
2	S 181.975 Axial†	34.6	-7.5	-18.462 ug/L	-18.462 ppb	11:11:34
2	Sb 206.836†	38.1	-7.9	-4.8076 ug/L	-4.8076 ppb	11:11:34
2	Se 196.026†	-27.1	3.7	4.2569 ug/L	4.2569 ppb	11:11:34
2	Si 251.611†	580.6	-123.5	-6.9168 ug/L	-6.9168 ppb	11:11:34
2	Sn 189.927†	12.3	-0.8	-0.2683 ug/L	-0.2683 ppb	11:11:34
2	Ti 334.940†	-1479.9	245.0	0.6280 ug/L	0.6280 ppb	11:11:14
2	Tl 190.801†	-35.8	-1.7	-0.9823 ug/L	-0.9823 ppb	11:11:34
2	U 409.014†	-2410.3	805.1	44.156 ug/L	44.156 ppb	11:11:14
2	V 292.402†	-1596.0	305.3	4.1373 ug/L	4.1373 ppb	11:11:14
2	Zn 213.857†	697.3	-92.5	-1.6227 ug/L	-1.6227 ppb	11:11:34
2	SiO2†	575.6	-128.0	-15.316 ug/L	-15.316 ppb	11:12:10
3	Sc Radial	3248.6	3248.6	103 %		11:10:42
3	Y RADIAL	3500.1	3500.1	102.0 %		11:10:42
3	Al 396.153Radial†	-94.5	-3.8	-4.9483 ug/L	-4.9483 ppb	11:10:42
3	Ca 317.933Radial†	18.3	-0.5	-1.0724 ug/L	-1.0724 ppb	11:10:42
3	Fe 238.204 Radial†	6.1	-0.5	-7.3666 ug/L	-7.3666 ppb	11:10:42
3	K 766.490 Radial†	3049.4	126.5	31.726 ug/L	31.726 ppb	11:10:22
3	Mg 279.077 IEC†	3.1	1.5	81.558 ug/L	81.558 ppb	11:10:42
3	Na 589.592 Radial†	-550.2	75.0	42.678 ug/L	42.678 ppb	11:10:22
3	Sr 421.552†	30.7	-2.5	-0.0322 ug/L	-0.0322 ppb	11:10:22
3	Sc 361.383	625100.7	625100.7	126.12 %		11:11:40
3	Y 371.029	491474.1	491474.1	118.74 %		11:11:40
3	Ag 328.068†	123.7	-22.4	-0.2028 ug/L	-0.2028 ppb	11:11:40
3	As 188.979†	-18.0	8.3	6.4956 ug/L	6.4956 ppb	11:12:00
3	B 249.677†	-200.6	248.9	9.6158 ug/L	9.6158 ppb	11:12:00
3	Ba 233.527†	-3.1	5.2	0.0835 ug/L	0.0835 ppb	11:12:00
3	Be 313.107†	-4004.2	715.6	0.4432 ug/L	0.4432 ppb	11:11:40
3	Cd 226.502†	-196.6	47.0	1.0629 ug/L	1.0629 ppb	11:12:00
3	Co 228.616†	-58.7	11.2	0.4103 ug/L	0.4103 ppb	11:12:00
3	Cr 267.716†	84.4	-9.3	-0.2176 ug/L	-0.2176 ppb	11:12:00
3	Cu 324.752†	5410.5	-933.2	-4.8144 ug/L	-4.8144 ppb	11:11:40
3	Mn 257.610†	442.2	-71.5	-0.1432 ug/L	-0.1432 ppb	11:12:00
3	Mo 202.031†	9.9	2.3	0.3209 ug/L	0.3209 ppb	11:12:00
3	Ni 231.604†	82.2	-11.7	-0.5654 ug/L	-0.5654 ppb	11:12:00
3	P 214.914†	206.5	-50.5	-50.393 ug/L	-50.393 ppb	11:12:00
3	Pb 220.353†	-51.4	21.3	5.0081 ug/L	5.0081 ppb	11:12:00
3	S 181.975 Axial†	32.9	-9.2	-22.661 ug/L	-22.661 ppb	11:12:00
3	Sb 206.836†	42.5	-4.8	-2.8622 ug/L	-2.8622 ppb	11:12:00
3	Se 196.026†	-23.5	6.8	7.8753 ug/L	7.8753 ppb	11:12:00
3	Si 251.611†	548.4	-154.7	-8.6610 ug/L	-8.6610 ppb	11:12:00
3	Sn 189.927†	18.3	3.8	1.3127 ug/L	1.3127 ppb	11:12:00
3	Ti 334.940†	-1389.4	331.2	0.8583 ug/L	0.8583 ppb	11:11:40
3	Tl 190.801†	-34.2	-0.1	-0.0420 ug/L	-0.0420 ppb	11:12:00
3	U 409.014†	-2603.9	675.1	37.029 ug/L	37.029 ppb	11:11:40
3	V 292.402†	-1640.7	285.5	3.8551 ug/L	3.8551 ppb	11:11:40
3	Zn 213.857†	681.6	-111.7	-1.9690 ug/L	-1.9690 ppb	11:12:00
3	SiO2†	606.1	-109.5	-13.093 ug/L	-13.093 ppb	11:12:15

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	614823.9	124.04 %	2.388			1.93%
Sc Radial	3232.5	103 %	2.7			2.59%
Y 371.029	484007.1	116.94 %	2.139			1.83%
Y RADIAL	3476.2	101.3 %	2.55			2.52%
Ag 328.068†	-31.8	-0.2860 ug/L	0.15462	-0.2860 ppb	0.15462	54.06%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-3.7	-4.8262 ug/L	7.61610	-4.8262 ppb	7.61610	157.81%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	5.3	4.1324 ug/L	2.52704	4.1324 ppb	2.52704	61.15%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	259.1	10.010 ug/L	0.3899	10.010 ppb	0.3899	3.90%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	0.0	0.0080 ug/L	0.06774	0.0080 ppb	0.06774	847.37%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	668.7	0.4140 ug/L	0.02591	0.4140 ppb	0.02591	6.26%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-1.8	-4.2985 ug/L	8.97008	-4.2985 ppb	8.97008	208.68%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	47.5	1.0767 ug/L	0.13476	1.0767 ppb	0.13476	12.52%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	11.2	0.4103 ug/L	0.11626	0.4103 ppb	0.11626	28.33%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	-4.6	-0.1154 ug/L	0.20451	-0.1154 ppb	0.20451	177.19%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-920.7	-4.7527 ug/L	0.35373	-4.7527 ppb	0.35373	7.44%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-0.4	-6.5094 ug/L	12.81038	-6.5094 ppb	12.81038	196.80%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	105.0	26.320 ug/L	36.0164	26.320 ppb	36.0164	136.84%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	1.6	85.075 ug/L	25.8115	85.075 ppb	25.8115	30.34%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-72.6	-0.1454 ug/L	0.00855	-0.1454 ppb	0.00855	5.88%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	1.5	0.2089 ug/L	0.47960	0.2089 ppb	0.47960	229.58%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	58.8	33.481 ug/L	8.8090	33.481 ppb	8.8090	26.31%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-19.5	-0.9464 ug/L	0.33210	-0.9464 ppb	0.33210	35.09%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	-45.8	-45.553 ug/L	4.5333	-45.553 ppb	4.5333	9.95%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	15.9	3.7360 ug/L	1.12698	3.7360 ppb	1.12698	30.17%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	-7.1	-17.467 ug/L	5.7563	-17.467 ppb	5.7563	32.95%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	-6.6	-4.0174 ug/L	1.02273	-4.0174 ppb	1.02273	25.46%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	4.5	5.1879 ug/L	2.36362	5.1879 ppb	2.36362	45.56%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	-131.6	-7.3676 ug/L	1.13706	-7.3676 ppb	1.13706	15.43%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	1.8	0.6341 ug/L	0.81390	0.6341 ppb	0.81390	128.36%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-14.2	-0.1809 ug/L	0.24909	-0.1809 ppb	0.24909	137.68%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	280.9	0.7217 ug/L	0.12099	0.7217 ppb	0.12099	16.76%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	-1.3	-0.7656 ug/L	0.64327	-0.7656 ppb	0.64327	84.02%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	761.6	41.771 ug/L	4.1066	41.771 ppb	4.1066	9.83%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	260.3	3.5292 ug/L	0.82107	3.5292 ppb	0.82107	23.26%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	-95.6	-1.6807 ug/L	0.26416	-1.6807 ppb	0.26416	15.72%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		-112.7	-13.473 ug/L	1.6856	-13.473 ppb	1.6856	12.51%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

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

Autosampler Location: 7
 Date Collected: 3/29/2010 12:01:47
 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	3409.8	3409.8	108 %		12:03:59
1	Y RADIAL	3891.5	3891.5	113.4 %		12:03:39
1	Al 396.153Radial†	4009.7	3784.7	4955.4 ug/L	4955.4 ppb	12:03:39
1	Ca 317.933Radial†	2275.1	2079.6	4908.4 ug/L	4908.4 ppb	12:03:59
1	Fe 238.204 Radial†	353.6	319.6	5240.8 ug/L	5240.8 ppb	12:03:59
1	K 766.490 Radial†	25701.2	20872.5	5229.2 ug/L	5229.2 ppb	12:03:39
1	Mg 279.077 IEC†	112.2	102.0	5385.8 ug/L	5385.8 ppb	12:03:59
1	Na 589.592 Radial†	19072.2	18192.4	10351 ug/L	10351 ppb	12:03:39
1	Sr 421.552†	45372.3	41801.8	532.10 ug/L	532.10 ppb	12:03:39
1	Sc 361.383	673825.3	673825.3	135.95 %		12:04:56
1	Y 371.029	423714.4	423714.4	102.37 %		12:05:01
1	Ag 328.068†	75746.9	55597.4	464.51 ug/L	464.51 ppb	12:05:01
1	As 188.979†	750.4	574.6	451.27 ug/L	451.27 ppb	12:05:21
1	B 249.677†	15550.4	11846.5	455.44 ug/L	455.44 ppb	12:05:01
1	Ba 233.527†	43593.2	32073.9	463.34 ug/L	463.34 ppb	12:05:01
1	Be 313.107†	1121417.9	828782.0	512.02 ug/L	512.02 ppb	12:04:56
1	Cd 226.502†	27953.4	20764.7	466.53 ug/L	466.53 ppb	12:05:01
1	Co 228.616†	17056.0	12603.8	463.44 ug/L	463.44 ppb	12:05:01
1	Cr 267.716†	28369.3	20791.6	462.67 ug/L	462.67 ppb	12:05:01
1	Cu 324.752†	127376.0	88471.8	454.47 ug/L	454.47 ppb	12:05:01
1	Mn 257.610†	319499.8	234595.3	456.94 ug/L	456.94 ppb	12:05:01
1	Mo 202.031†	4356.9	3199.2	448.56 ug/L	448.56 ppb	12:05:21
1	Ni 231.604†	13046.1	9519.6	461.45 ug/L	461.45 ppb	12:05:01
1	P 214.914†	3244.8	2172.5	2118.7 ug/L	2118.7 ppb	12:05:21
1	Pb 220.353†	2537.3	1928.4	454.58 ug/L	454.58 ppb	12:05:21
1	S 181.975 Axial†	541.6	363.1	891.56 ug/L	891.56 ppb	12:05:21
1	Sb 206.836†	1041.1	727.3	459.37 ug/L	459.37 ppb	12:05:21
1	Se 196.026†	489.9	385.9	463.12 ug/L	463.12 ppb	12:05:21
1	Si 251.611†	56925.4	41283.6	2304.7 ug/L	2304.7 ppb	12:05:01
1	Sn 189.927†	1781.9	1300.1	448.89 ug/L	448.89 ppb	12:05:21
1	Ti 334.940†	230506.7	170988.7	454.83 ug/L	454.83 ppb	12:05:01
1	Tl 190.801†	1033.3	787.2	453.68 ug/L	453.68 ppb	12:05:21
1	U 409.014†	8349.3	8881.4	485.46 ug/L	485.46 ppb	12:05:01
1	V 292.402†	45429.9	35003.7	469.22 ug/L	469.22 ppb	12:05:01
1	Zn 213.857†	36336.6	26076.3	457.98 ug/L	457.98 ppb	12:05:01
1	SiO2†	58049.6	42110.0	5021.6 ug/L	5021.6 ppb	12:06:28
2	Sc Radial	3273.2	3273.2	104 %		12:04:24
2	Y RADIAL	4164.7	4164.7	121.3 %		12:04:04
2	Al 396.153Radial†	4281.8	4200.4	5500.6 ug/L	5500.6 ppb	12:04:04
2	Ca 317.933Radial†	2172.8	2068.8	4882.9 ug/L	4882.9 ppb	12:04:24
2	Fe 238.204 Radial†	340.0	320.2	5250.4 ug/L	5250.4 ppb	12:04:24
2	K 766.490 Radial†	27231.7	23331.4	5845.5 ug/L	5845.5 ppb	12:04:04
2	Mg 279.077 IEC†	106.3	100.6	5312.5 ug/L	5312.5 ppb	12:04:24
2	Na 589.592 Radial†	20472.8	20271.5	11534 ug/L	11534 ppb	12:04:04
2	Sr 421.552†	48252.6	46314.0	589.54 ug/L	589.54 ppb	12:04:04
2	Sc 361.383	629733.4	629733.4	127.05 %		12:05:27
2	Y 371.029	422550.9	422550.9	102.09 %		12:05:32
2	Ag 328.068†	75652.3	59424.1	496.37 ug/L	496.37 ppb	12:05:32
2	As 188.979†	746.3	610.0	479.00 ug/L	479.00 ppb	12:05:52
2	B 249.677†	15560.2	12655.1	486.58 ug/L	486.58 ppb	12:05:32
2	Ba 233.527†	43538.1	34275.8	495.13 ug/L	495.13 ppb	12:05:32
2	Be 313.107†	1037854.8	820767.3	507.15 ug/L	507.15 ppb	12:05:27
2	Cd 226.502†	27802.2	22085.5	496.23 ug/L	496.23 ppb	12:05:32
2	Co 228.616†	17043.6	13472.5	495.38 ug/L	495.38 ppb	12:05:32
2	Cr 267.716†	28334.0	22225.0	494.53 ug/L	494.53 ppb	12:05:32
2	Cu 324.752†	127036.3	94764.7	486.78 ug/L	486.78 ppb	12:05:32
2	Mn 257.610†	319278.1	250875.9	488.64 ug/L	488.64 ppb	12:05:32
2	Mo 202.031†	4331.3	3403.5	477.17 ug/L	477.17 ppb	12:05:52
2	Ni 231.604†	12982.3	10141.3	491.59 ug/L	491.59 ppb	12:05:32

2	P 214.914†	3219.3	2319.5	2262.0 ug/L	2262.0 ppb	12:05:52
2	Pb 220.353†	2508.9	2036.8	480.21 ug/L	480.21 ppb	12:05:52
2	S 181.975 Axial†	534.5	385.3	946.12 ug/L	946.12 ppb	12:05:52
2	Sb 206.836†	1035.2	776.3	490.17 ug/L	490.17 ppb	12:05:52
2	Se 196.026†	491.0	412.0	493.55 ug/L	493.55 ppb	12:05:52
2	Si 251.611†	56831.7	44141.6	2464.3 ug/L	2464.3 ppb	12:05:32
2	Sn 189.927†	1755.8	1371.3	473.38 ug/L	473.38 ppb	12:05:52
2	Ti 334.940†	230156.8	182585.1	485.66 ug/L	485.66 ppb	12:05:32
2	Tl 190.801†	1031.5	838.9	483.53 ug/L	483.53 ppb	12:05:52
2	U 409.014†	8404.5	9354.9	511.36 ug/L	511.36 ppb	12:05:32
2	V 292.402†	45299.5	37240.8	499.23 ug/L	499.23 ppb	12:05:32
2	Zn 213.857†	36245.5	27876.0	489.65 ug/L	489.65 ppb	12:05:32
2	SiO2†	58007.6	45066.7	5374.2 ug/L	5374.2 ppb	12:06:33
3	Sc Radial	3481.2	3481.2	111 %		12:04:49
3	Y RADIAL	3695.5	3695.5	107.7 %		12:04:29
3	Al 396.153Radial†	3771.6	3493.9	4570.2 ug/L	4570.2 ppb	12:04:29
3	Ca 317.933Radial†	2299.3	2058.4	4858.3 ug/L	4858.3 ppb	12:04:49
3	Fe 238.204 Radial†	357.9	316.8	5196.1 ug/L	5196.1 ppb	12:04:49
3	K 766.490 Radial†	24603.0	19394.4	4858.6 ug/L	4858.6 ppb	12:04:29
3	Mg 279.077 IEC†	108.7	96.7	5105.0 ug/L	5105.0 ppb	12:04:49
3	Na 589.592 Radial†	18036.8	16896.5	9614.0 ug/L	9614.0 ppb	12:04:29
3	Sr 421.552†	42759.4	38583.6	491.13 ug/L	491.13 ppb	12:04:29
3	Sc 361.383	620773.4	620773.4	125.24 %		12:05:57
3	Y 371.029	423935.7	423935.7	102.42 %		12:06:03
3	Ag 328.068†	76817.9	61214.2	511.26 ug/L	511.26 ppb	12:06:03
3	As 188.979†	805.9	666.1	522.70 ug/L	522.70 ppb	12:06:23
3	B 249.677†	15874.1	13082.5	503.06 ug/L	503.06 ppb	12:06:03
3	Ba 233.527†	44279.6	35362.4	510.82 ug/L	510.82 ppb	12:06:03
3	Be 313.107†	1020963.4	819071.0	506.14 ug/L	506.14 ppb	12:05:57
3	Cd 226.502†	28349.2	22838.0	513.17 ug/L	513.17 ppb	12:06:03
3	Co 228.616†	17376.7	13932.0	512.31 ug/L	512.31 ppb	12:06:03
3	Cr 267.716†	28852.8	22961.0	510.88 ug/L	510.88 ppb	12:06:03
3	Cu 324.752†	129370.6	98071.7	503.75 ug/L	503.75 ppb	12:06:03
3	Mn 257.610†	324650.5	258792.6	504.05 ug/L	504.05 ppb	12:06:03
3	Mo 202.031†	4521.6	3604.6	505.34 ug/L	505.34 ppb	12:06:23
3	Ni 231.604†	13226.1	10483.5	508.17 ug/L	508.17 ppb	12:06:03
3	P 214.914†	3394.5	2496.0	2438.1 ug/L	2438.1 ppb	12:06:23
3	Pb 220.353†	2650.7	2178.5	513.32 ug/L	513.32 ppb	12:06:23
3	S 181.975 Axial†	570.1	419.9	1031.1 ug/L	1031.1 ppb	12:06:23
3	Sb 206.836†	1071.1	816.7	515.92 ug/L	515.92 ppb	12:06:23
3	Se 196.026†	516.3	437.8	523.07 ug/L	523.07 ppb	12:06:23
3	Si 251.611†	57871.2	45617.3	2546.5 ug/L	2546.5 ppb	12:06:03
3	Sn 189.927†	1855.5	1470.9	507.61 ug/L	507.61 ppb	12:06:23
3	Ti 334.940†	234243.5	188462.7	501.30 ug/L	501.30 ppb	12:06:03
3	Tl 190.801†	1068.3	880.0	507.15 ug/L	507.15 ppb	12:06:23
3	U 409.014†	8789.9	9758.0	533.44 ug/L	533.44 ppb	12:06:03
3	V 292.402†	46113.7	38405.5	515.07 ug/L	515.07 ppb	12:06:03
3	Zn 213.857†	36897.6	28808.5	506.06 ug/L	506.06 ppb	12:06:03
3	SiO2†	58756.6	46323.8	5523.7 ug/L	5523.7 ppb	12:06:38

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	641444.0	129.41 %	5.730			4.43%
Sc Radial	3388.1	108 %	3.4			3.12%
Y 371.029	423400.3	102.30 %	0.180			0.18%
Y RADIAL	3917.2	114.1 %	6.87			6.02%
Ag 328.068†	58745.2	490.71 ug/L	23.884	490.71 ppb	23.884	4.87%
QC value within limits for Ag 328.068 Recovery = 98.14%						
Al 396.153Radial†	3826.3	5008.8 ug/L	467.49	5008.8 ppb	467.49	9.33%
QC value within limits for Al 396.153Radial Recovery = 100.18%						
As 188.979†	616.9	484.32 ug/L	36.007	484.32 ppb	36.007	7.43%
QC value within limits for As 188.979 Recovery = 96.86%						
B 249.677†	12528.0	481.69 ug/L	24.181	481.69 ppb	24.181	5.02%
QC value within limits for B 249.677 Recovery = 96.34%						
Ba 233.527†	33904.0	489.76 ug/L	24.192	489.76 ppb	24.192	4.94%
QC value within limits for Ba 233.527 Recovery = 97.95%						
Be 313.107†	822873.4	508.44 ug/L	3.145	508.44 ppb	3.145	0.62%
QC value within limits for Be 313.107 Recovery = 101.69%						
Ca 317.933Radial†	2068.9	4883.2 ug/L	25.04	4883.2 ppb	25.04	0.51%

QC value within limits for Ca 317.933 Radial Recovery = 97.66%						
Cd 226.502†	21896.1	491.98 ug/L	23.610	491.98 ppb	23.610	4.80%
QC value within limits for Cd 226.502 Recovery = 98.40%						
Co 228.616†	13336.1	490.38 ug/L	24.817	490.38 ppb	24.817	5.06%
QC value within limits for Co 228.616 Recovery = 98.08%						
Cr 267.716†	21992.5	489.36 ug/L	24.516	489.36 ppb	24.516	5.01%
QC value within limits for Cr 267.716 Recovery = 97.87%						
Cu 324.752†	93769.4	481.66 ug/L	25.036	481.66 ppb	25.036	5.20%
QC value within limits for Cu 324.752 Recovery = 96.33%						
Fe 238.204 Radial†	318.9	5229.1 ug/L	28.97	5229.1 ppb	28.97	0.55%
QC value within limits for Fe 238.204 Radial Recovery = 104.58%						
K 766.490 Radial†	21199.4	5311.1 ug/L	498.49	5311.1 ppb	498.49	9.39%
QC value within limits for K 766.490 Radial Recovery = 106.22%						
Mg 279.077 IEC†	99.8	5267.7 ug/L	145.66	5267.7 ppb	145.66	2.77%
QC value within limits for Mg 279.077 IEC Recovery = 105.35%						
Mn 257.610†	248088.0	483.21 ug/L	24.018	483.21 ppb	24.018	4.97%
QC value within limits for Mn 257.610 Recovery = 96.64%						
Mo 202.031†	3402.5	477.03 ug/L	28.391	477.03 ppb	28.391	5.95%
QC value within limits for Mo 202.031 Recovery = 95.41%						
Na 589.592 Radial†	18453.4	10500 ug/L	968.8	10500 ppb	968.8	9.23%
QC value within limits for Na 589.592 Radial Recovery = 105.00%						
Ni 231.604†	10048.1	487.07 ug/L	23.685	487.07 ppb	23.685	4.86%
QC value within limits for Ni 231.604 Recovery = 97.41%						
P 214.914†	2329.3	2272.9 ug/L	160.00	2272.9 ppb	160.00	7.04%
QC value within limits for P 214.914 Recovery = 90.92%						
Pb 220.353†	2047.9	482.71 ug/L	29.448	482.71 ppb	29.448	6.10%
QC value within limits for Pb 220.353 Recovery = 96.54%						
S 181.975 Axial†	389.4	956.27 ug/L	70.339	956.27 ppb	70.339	7.36%
QC value within limits for S 181.975 Axial Recovery = 95.63%						
Sb 206.836†	773.5	488.48 ug/L	28.312	488.48 ppb	28.312	5.80%
QC value within limits for Sb 206.836 Recovery = 97.70%						
Se 196.026†	411.9	493.24 ug/L	29.976	493.24 ppb	29.976	6.08%
QC value within limits for Se 196.026 Recovery = 98.65%						
Si 251.611†	43680.8	2438.5 ug/L	122.95	2438.5 ppb	122.95	5.04%
QC value within limits for Si 251.611 Recovery = 97.54%						
Sn 189.927†	1380.7	476.63 ug/L	29.498	476.63 ppb	29.498	6.19%
QC value within limits for Sn 189.927 Recovery = 95.33%						
Sr 421.552†	42233.1	537.59 ug/L	49.434	537.59 ppb	49.434	9.20%
QC value within limits for Sr 421.552 Recovery = 107.52%						
Ti 334.940†	180678.9	480.60 ug/L	23.648	480.60 ppb	23.648	4.92%
QC value within limits for Ti 334.940 Recovery = 96.12%						
Tl 190.801†	835.4	481.45 ug/L	26.793	481.45 ppb	26.793	5.57%
QC value within limits for Tl 190.801 Recovery = 96.29%						
U 409.014†	9331.4	510.08 ug/L	24.012	510.08 ppb	24.012	4.71%
QC value within limits for U 409.014 Recovery = 102.02%						
V 292.402†	36883.3	494.51 ug/L	23.288	494.51 ppb	23.288	4.71%
QC value within limits for V 292.402 Recovery = 98.90%						
Zn 213.857†	27586.9	484.56 ug/L	24.441	484.56 ppb	24.441	5.04%
QC value within limits for Zn 213.857 Recovery = 96.91%						
SiO2†	44500.2	5306.5 ug/L	257.84	5306.5 ppb	257.84	4.86%
QC value within limits for SiO2 Recovery = 99.23%						

All analyte(s) passed QC.

Sequence No.: 13

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/29/2010 12:08:48

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	3434.6	3434.6	109 %		12:11:01
1	Y RADIAL	3459.1	3459.1	100.8 %		12:10:41
1	Al 396.153Radial†	-89.2	6.1	7.9177 ug/L	7.9177 ppb	12:11:01
1	Ca 317.933Radial†	20.6	0.8	1.8302 ug/L	1.8302 ppb	12:11:01
1	Fe 238.204 Radial†	5.4	-1.4	-23.622 ug/L	-23.622 ppb	12:11:01
1	K 766.490 Radial†	2809.8	-252.5	-63.350 ug/L	-63.350 ppb	12:10:41
1	Mg 279.077 IEC†	0.7	-0.9	-45.226 ug/L	-45.226 ppb	12:11:01
1	Na 589.592 Radial†	-603.5	55.0	31.322 ug/L	31.322 ppb	12:10:41
1	Sr 421.552†	19.3	-14.6	-0.1855 ug/L	-0.1855 ppb	12:10:41
1	Sc 361.383	508264.4	508264.4	102.54 %		12:11:58
1	Y 371.029	427461.4	427461.4	103.28 %		12:11:58
1	Ag 328.068†	100.3	-22.6	-0.1885 ug/L	-0.1885 ppb	12:11:58
1	As 188.979†	-30.3	-6.9	-5.4050 ug/L	-5.4050 ppb	12:12:18
1	B 249.677†	-412.7	5.4	0.2142 ug/L	0.2142 ppb	12:12:18
1	Ba 233.527†	-12.3	-4.3	-0.0625 ug/L	-0.0625 ppb	12:12:18
1	Be 313.107†	-3960.1	28.9	0.0178 ug/L	0.0178 ppb	12:11:58
1	Cd 226.502†	-201.1	6.7	0.1511 ug/L	0.1511 ppb	12:12:18
1	Co 228.616†	-58.6	0.6	0.0268 ug/L	0.0268 ppb	12:12:18
1	Cr 267.716†	95.7	17.1	0.3797 ug/L	0.3797 ppb	12:12:18
1	Cu 324.752†	5352.6	-3.5	-0.0150 ug/L	-0.0150 ppb	12:11:58
1	Mn 257.610†	440.8	7.8	0.0147 ug/L	0.0147 ppb	12:12:18
1	Mo 202.031†	22.4	16.3	2.2745 ug/L	2.2745 ppb	12:12:18
1	Ni 231.604†	67.5	-11.1	-0.5368 ug/L	-0.5368 ppb	12:12:18
1	P 214.914†	211.5	-8.0	-8.1431 ug/L	-8.1431 ppb	12:12:18
1	Pb 220.353†	-62.8	0.9	0.2107 ug/L	0.2107 ppb	12:12:18
1	S 181.975 Axial†	29.9	-6.1	-15.047 ug/L	-15.047 ppb	12:12:18
1	Sb 206.836†	33.9	-5.5	-3.2864 ug/L	-3.2864 ppb	12:12:18
1	Se 196.026†	-22.5	3.6	4.1066 ug/L	4.1066 ppb	12:12:18
1	Si 251.611†	554.0	-49.3	-2.7876 ug/L	-2.7876 ppb	12:12:18
1	Sn 189.927†	11.3	0.4	0.1205 ug/L	0.1205 ppb	12:12:18
1	Ti 334.940†	-1471.4	-2.0	0.0018 ug/L	0.0018 ppb	12:11:58
1	Tl 190.801†	-35.4	-7.5	-4.2942 ug/L	-4.2942 ppb	12:12:18
1	U 409.014†	-2950.0	-137.0	-7.5111 ug/L	-7.5111 ppb	12:11:58
1	V 292.402†	-1614.5	12.0	0.1789 ug/L	0.1789 ppb	12:11:58
1	Zn 213.857†	674.6	5.8	0.1090 ug/L	0.1090 ppb	12:12:18
1	SiO2†	552.9	-50.8	-6.1381 ug/L	-6.1381 ppb	12:13:13
2	Sc Radial	3262.3	3262.3	104 %		12:11:26
2	Y RADIAL	3578.5	3578.5	104.3 %		12:11:06
2	Al 396.153Radial†	-95.8	-4.6	-6.1120 ug/L	-6.1120 ppb	12:11:26
2	Ca 317.933Radial†	22.6	3.6	8.5963 ug/L	8.5963 ppb	12:11:26
2	Fe 238.204 Radial†	6.2	-0.5	-7.5060 ug/L	-7.5060 ppb	12:11:26
2	K 766.490 Radial†	2742.0	-182.1	-45.670 ug/L	-45.670 ppb	12:11:06
2	Mg 279.077 IEC†	2.7	1.2	61.304 ug/L	61.304 ppb	12:11:26
2	Na 589.592 Radial†	-638.5	-7.8	-4.4301 ug/L	-4.4301 ppb	12:11:06
2	Sr 421.552†	46.8	12.8	0.1635 ug/L	0.1635 ppb	12:11:06
2	Sc 361.383	520352.8	520352.8	104.98 %		12:12:23
2	Y 371.029	436183.2	436183.2	105.38 %		12:12:23
2	Ag 328.068†	131.0	4.4	0.0291 ug/L	0.0291 ppb	12:12:23
2	As 188.979†	-17.8	5.7	4.4238 ug/L	4.4238 ppb	12:12:43
2	B 249.677†	-390.4	36.1	1.3927 ug/L	1.3927 ppb	12:12:43
2	Ba 233.527†	5.5	12.9	0.1867 ug/L	0.1867 ppb	12:12:43
2	Be 313.107†	-4091.7	-6.8	-0.0038 ug/L	-0.0038 ppb	12:12:23
2	Cd 226.502†	-215.1	-2.1	-0.0453 ug/L	-0.0453 ppb	12:12:43
2	Co 228.616†	-48.8	11.2	0.4160 ug/L	0.4160 ppb	12:12:43
2	Cr 267.716†	105.4	24.2	0.5332 ug/L	0.5332 ppb	12:12:43
2	Cu 324.752†	5487.6	3.8	0.0148 ug/L	0.0148 ppb	12:12:23
2	Mn 257.610†	436.0	-6.7	-0.0164 ug/L	-0.0164 ppb	12:12:43
2	Mo 202.031†	17.4	11.0	1.5360 ug/L	1.5360 ppb	12:12:43
2	Ni 231.604†	67.8	-12.3	-0.5958 ug/L	-0.5958 ppb	12:12:43

2	P 214.914†	218.4	-6.3	-6.3584 ug/L	-6.3584 ppb	12:12:43
2	Pb 220.353†	-54.1	10.5	2.4792 ug/L	2.4792 ppb	12:12:43
2	S 181.975 Axial†	40.0	2.8	6.7664 ug/L	6.7664 ppb	12:12:43
2	Sb 206.836†	29.5	-10.4	-6.2631 ug/L	-6.2631 ppb	12:12:43
2	Se 196.026†	-30.0	-3.1	-3.5790 ug/L	-3.5790 ppb	12:12:43
2	Si 251.611†	564.4	-51.9	-2.9219 ug/L	-2.9219 ppb	12:12:43
2	Sn 189.927†	15.4	4.0	1.3812 ug/L	1.3812 ppb	12:12:43
2	Ti 334.940†	-1435.0	66.0	0.1681 ug/L	0.1681 ppb	12:12:23
2	Tl 190.801†	-37.8	-8.9	-5.1065 ug/L	-5.1065 ppb	12:12:43
2	U 409.014†	-2728.5	140.8	7.7234 ug/L	7.7234 ppb	12:12:23
2	V 292.402†	-1631.1	32.7	0.4715 ug/L	0.4715 ppb	12:12:23
2	Zn 213.857†	695.6	10.4	0.1899 ug/L	0.1899 ppb	12:12:43
2	SiO2†	598.9	-19.5	-2.3764 ug/L	-2.3764 ppb	12:13:18
3	Sc Radial	3235.5	3235.5	103 %		12:11:51
3	Y RADIAL	3714.9	3714.9	108.2 %		12:11:31
3	Al 396.153Radial†	-101.4	-10.8	-14.249 ug/L	-14.249 ppb	12:11:51
3	Ca 317.933Radial†	20.5	1.8	4.2563 ug/L	4.2563 ppb	12:11:51
3	Fe 238.204 Radial†	6.0	-0.6	-9.3229 ug/L	-9.3229 ppb	12:11:51
3	K 766.490 Radial†	2789.4	-114.0	-28.606 ug/L	-28.606 ppb	12:11:31
3	Mg 279.077 IEC†	1.2	-0.3	-15.338 ug/L	-15.338 ppb	12:11:51
3	Na 589.592 Radial†	-642.9	-17.2	-9.7856 ug/L	-9.7856 ppb	12:11:31
3	Sr 421.552†	67.0	32.8	0.4175 ug/L	0.4175 ppb	12:11:31
3	Sc 361.383	499640.0	499640.0	100.80 %		12:12:48
3	Y 371.029	419519.5	419519.5	101.36 %		12:12:48
3	Ag 328.068†	188.9	66.9	0.5543 ug/L	0.5543 ppb	12:12:48
3	As 188.979†	-24.7	-1.9	-1.5134 ug/L	-1.5134 ppb	12:13:08
3	B 249.677†	-427.3	-15.9	-0.6129 ug/L	-0.6129 ppb	12:13:08
3	Ba 233.527†	0.2	7.9	0.1155 ug/L	0.1155 ppb	12:13:08
3	Be 313.107†	-3963.9	-41.6	-0.0252 ug/L	-0.0252 ppb	12:12:48
3	Cd 226.502†	-193.8	10.6	0.2386 ug/L	0.2386 ppb	12:13:08
3	Co 228.616†	-58.7	-0.5	-0.0131 ug/L	-0.0131 ppb	12:13:08
3	Cr 267.716†	85.4	8.4	0.1869 ug/L	0.1869 ppb	12:13:08
3	Cu 324.752†	5259.9	-5.3	-0.0288 ug/L	-0.0288 ppb	12:12:48
3	Mn 257.610†	441.4	15.8	0.0305 ug/L	0.0305 ppb	12:13:08
3	Mo 202.031†	17.9	12.2	1.7082 ug/L	1.7082 ppb	12:13:08
3	Ni 231.604†	74.3	-3.1	-0.1505 ug/L	-0.1505 ppb	12:13:08
3	P 214.914†	218.6	2.6	2.6589 ug/L	2.6589 ppb	12:13:08
3	Pb 220.353†	-47.9	14.6	3.4195 ug/L	3.4195 ppb	12:13:08
3	S 181.975 Axial†	32.1	-3.5	-8.5619 ug/L	-8.5619 ppb	12:13:08
3	Sb 206.836†	39.8	1.0	0.7049 ug/L	0.7049 ppb	12:13:08
3	Se 196.026†	-32.8	-7.0	-8.1672 ug/L	-8.1672 ppb	12:13:08
3	Si 251.611†	563.3	-30.7	-1.7387 ug/L	-1.7387 ppb	12:13:08
3	Sn 189.927†	18.3	7.5	2.5865 ug/L	2.5865 ppb	12:13:08
3	Ti 334.940†	-1378.6	65.2	0.1747 ug/L	0.1747 ppb	12:12:48
3	Tl 190.801†	-28.9	-1.7	-0.9469 ug/L	-0.9469 ppb	12:13:08
3	U 409.014†	-2733.3	28.4	1.5562 ug/L	1.5562 ppb	12:12:48
3	V 292.402†	-1544.6	54.2	0.7447 ug/L	0.7447 ppb	12:12:48
3	Zn 213.857†	703.7	46.0	0.8176 ug/L	0.8176 ppb	12:13:08
3	SiO2†	593.6	-1.2	-0.1851 ug/L	-0.1851 ppb	12:13:23

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	509419.1	102.78 %	2.099			2.04%
Sc Radial	3310.8	105 %	3.4			3.26%
Y 371.029	427721.4	103.34 %	2.014			1.95%
Y RADIAL	3584.2	104.4 %	3.73			3.57%
Ag 328.068†	16.2	0.1316 ug/L	0.38187	0.1316 ppb	0.38187	290.07%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-3.1	-4.1479 ug/L	11.21334	-4.1479 ppb	11.21334	270.34%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.1	-0.8316 ug/L	4.94972	-0.8316 ppb	4.94972	595.24%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	8.5	0.3313 ug/L	1.00793	0.3313 ppb	1.00793	304.21%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.5	0.0799 ug/L	0.12838	0.0799 ppb	0.12838	160.69%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-6.5	-0.0037 ug/L	0.02150	-0.0037 ppb	0.02150	574.56%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	2.1	4.8943 ug/L	3.42783	4.8943 ppb	3.42783	70.04%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	5.1	0.1148 ug/L	0.14538	0.1148 ppb	0.14538	126.62%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	3.8	0.1432 ug/L	0.23707	0.1432 ppb	0.23707	165.51%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	16.6	0.3666 ug/L	0.17353	0.3666 ppb	0.17353	47.34%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-1.7	-0.0097 ug/L	0.02232	-0.0097 ppb	0.02232	230.49%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-0.8	-13.484 ug/L	8.8271	-13.484 ppb	8.8271	65.46%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-182.9	-45.875 ug/L	17.3726	-45.875 ppb	17.3726	37.87%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.0	0.2465 ug/L	54.94826	0.2465 ppb	54.94826	>999.9%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	5.6	0.0096 ug/L	0.02383	0.0096 ppb	0.02383	248.00%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	13.1	1.8396 ug/L	0.38636	1.8396 ppb	0.38636	21.00%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	10.0	5.7020 ug/L	22.34823	5.7020 ppb	22.34823	391.94%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-8.8	-0.4277 ug/L	0.24184	-0.4277 ppb	0.24184	56.55%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-3.9	-3.9475 ug/L	5.79055	-3.9475 ppb	5.79055	146.69%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	8.6	2.0364 ug/L	1.64955	2.0364 ppb	1.64955	81.00%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-2.3	-5.6143 ug/L	11.20162	-5.6143 ppb	11.20162	199.52%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-4.9	-2.9482 ug/L	3.49628	-2.9482 ppb	3.49628	118.59%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-2.2	-2.5465 ug/L	6.20166	-2.5465 ppb	6.20166	243.54%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-44.0	-2.4827 ug/L	0.64788	-2.4827 ppb	0.64788	26.10%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	4.0	1.3628 ug/L	1.23311	1.3628 ppb	1.23311	90.49%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	10.4	0.1318 ug/L	0.30275	0.1318 ppb	0.30275	229.63%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	43.1	0.1149 ug/L	0.09799	0.1149 ppb	0.09799	85.31%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-6.0	-3.4492 ug/L	2.20476	-3.4492 ppb	2.20476	63.92%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	10.7	0.5895 ug/L	7.66314	0.5895 ppb	7.66314	>999.9%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	33.0	0.4650 ug/L	0.28296	0.4650 ppb	0.28296	60.85%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	20.7	0.3722 ug/L	0.38784	0.3722 ppb	0.38784	104.21%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	-23.8	-2.8999 ug/L	3.01083	-2.8999 ppb	3.01083	103.83%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 21

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/29/2010 13:03:02

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	3341.4	3341.4	106 %		13:05:15
1	Y RADIAL	3578.2	3578.2	104.3 %		13:05:15
1	Al 396.153Radial†	4095.4	3941.1	5157.9 ug/L	5157.9 ppb	13:04:55
1	Ca 317.933Radial†	2201.7	2053.4	4846.6 ug/L	4846.6 ppb	13:05:15
1	Fe 238.204 Radial†	335.8	309.5	5077.3 ug/L	5077.3 ppb	13:05:15
1	K 766.490 Radial†	26366.0	21983.0	5507.6 ug/L	5507.6 ppb	13:04:55
1	Mg 279.077 IEC†	107.0	99.2	5239.8 ug/L	5239.8 ppb	13:05:15
1	Na 589.592 Radial†	18779.5	18277.0	10399 ug/L	10399 ppb	13:04:55
1	Sr 421.552†	45279.2	42570.5	541.89 ug/L	541.89 ppb	13:04:55
1	Sc 361.383	594273.7	594273.7	119.90 %		13:06:12
1	Y 371.029	425007.4	425007.4	102.68 %		13:06:17
1	Ag 328.068†	76331.0	63543.2	530.62 ug/L	530.62 ppb	13:06:17
1	As 188.979†	767.9	663.1	520.48 ug/L	520.48 ppb	13:06:37
1	B 249.677†	15612.5	13429.5	516.43 ug/L	516.43 ppb	13:06:17
1	Ba 233.527†	43996.2	36702.6	530.17 ug/L	530.17 ppb	13:06:17
1	Be 313.107†	967718.8	811012.8	501.21 ug/L	501.21 ppb	13:06:12
1	Cd 226.502†	28199.8	23722.7	533.08 ug/L	533.08 ppb	13:06:17
1	Co 228.616†	17203.0	14405.9	529.72 ug/L	529.72 ppb	13:06:17
1	Cr 267.716†	28625.8	23799.0	529.49 ug/L	529.49 ppb	13:06:17
1	Cu 324.752†	128418.1	101883.4	523.32 ug/L	523.32 ppb	13:06:17
1	Mn 257.610†	322538.0	268589.5	523.10 ug/L	523.10 ppb	13:06:17
1	Mo 202.031†	4401.9	3665.8	513.90 ug/L	513.90 ppb	13:06:37
1	Ni 231.604†	13169.8	10907.4	528.73 ug/L	528.73 ppb	13:06:17
1	P 214.914†	3308.0	2544.7	2484.1 ug/L	2484.1 ppb	13:06:37
1	Pb 220.353†	2569.0	2204.7	519.66 ug/L	519.66 ppb	13:06:37
1	S 181.975 Axial†	547.3	421.2	1034.2 ug/L	1034.2 ppb	13:06:37
1	Sb 206.836†	1061.4	846.7	534.54 ug/L	534.54 ppb	13:06:37
1	Se 196.026†	511.8	452.4	539.88 ug/L	539.88 ppb	13:06:37
1	Si 251.611†	57528.0	47391.5	2645.7 ug/L	2645.7 ppb	13:06:17
1	Sn 189.927†	1811.1	1499.9	517.58 ug/L	517.58 ppb	13:06:37
1	Ti 334.940†	232504.4	195352.3	519.61 ug/L	519.61 ppb	13:06:17
1	Tl 190.801†	1038.7	893.4	514.93 ug/L	514.93 ppb	13:06:37
1	U 409.014†	8551.4	9872.0	539.66 ug/L	539.66 ppb	13:06:17
1	V 292.402†	45891.4	39862.0	534.47 ug/L	534.47 ppb	13:06:17
1	Zn 213.857†	36700.2	29957.5	526.29 ug/L	526.29 ppb	13:06:17
1	SiO2†	60223.5	49639.1	5919.8 ug/L	5919.8 ppb	13:07:44
2	Sc Radial	3392.3	3392.3	108 %		13:05:40
2	Y RADIAL	3616.7	3616.7	105.4 %		13:05:40
2	Al 396.153Radial†	3797.7	3607.3	4718.7 ug/L	4718.7 ppb	13:05:20
2	Ca 317.933Radial†	2239.8	2057.6	4856.6 ug/L	4856.6 ppb	13:05:40
2	Fe 238.204 Radial†	343.5	311.9	5116.8 ug/L	5116.8 ppb	13:05:40
2	K 766.490 Radial†	24415.9	19803.2	4961.2 ug/L	4961.2 ppb	13:05:20
2	Mg 279.077 IEC†	107.9	98.5	5203.3 ug/L	5203.3 ppb	13:05:40
2	Na 589.592 Radial†	17220.6	16566.9	9426.4 ug/L	9426.4 ppb	13:05:20
2	Sr 421.552†	41829.6	38733.8	493.04 ug/L	493.04 ppb	13:05:20
2	Sc 361.383	601507.9	601507.9	121.36 %		13:06:42
2	Y 371.029	424754.0	424754.0	102.62 %		13:06:48
2	Ag 328.068†	76717.5	63095.9	526.90 ug/L	526.90 ppb	13:06:48
2	As 188.979†	786.1	670.4	526.12 ug/L	526.12 ppb	13:07:08
2	B 249.677†	15691.3	13337.8	512.89 ug/L	512.89 ppb	13:06:48
2	Ba 233.527†	44196.0	36425.9	526.17 ug/L	526.17 ppb	13:06:48
2	Be 313.107†	983313.1	814155.6	503.14 ug/L	503.14 ppb	13:06:42
2	Cd 226.502†	28363.2	23574.5	529.74 ug/L	529.74 ppb	13:06:48
2	Co 228.616†	17353.2	14357.0	527.95 ug/L	527.95 ppb	13:06:48
2	Cr 267.716†	28747.1	23611.8	525.34 ug/L	525.34 ppb	13:06:48
2	Cu 324.752†	128821.9	100928.0	518.41 ug/L	518.41 ppb	13:06:48
2	Mn 257.610†	324111.8	266651.0	519.33 ug/L	519.33 ppb	13:06:48
2	Mo 202.031†	4510.0	3710.7	520.19 ug/L	520.19 ppb	13:07:08
2	Ni 231.604†	13232.3	10826.7	524.82 ug/L	524.82 ppb	13:06:48

2	P 214.914†	3385.9	2575.7	2516.4 ug/L	2516.4 ppb	13:07:08
2	Pb 220.353†	2636.0	2234.1	526.47 ug/L	526.47 ppb	13:07:08
2	S 181.975 Axial†	566.0	431.0	1058.6 ug/L	1058.6 ppb	13:07:08
2	Sb 206.836†	1089.6	859.3	542.42 ug/L	542.42 ppb	13:07:08
2	Se 196.026†	512.6	447.9	534.69 ug/L	534.69 ppb	13:07:08
2	Si 251.611†	57867.5	47094.2	2629.0 ug/L	2629.0 ppb	13:06:48
2	Sn 189.927†	1847.5	1511.7	521.66 ug/L	521.66 ppb	13:07:08
2	Ti 334.940†	233454.5	193802.9	515.49 ug/L	515.49 ppb	13:06:48
2	Tl 190.801†	1071.3	909.8	524.29 ug/L	524.29 ppb	13:07:08
2	U 409.014†	8625.5	9847.3	538.31 ug/L	538.31 ppb	13:06:48
2	V 292.402†	45929.8	39433.3	528.89 ug/L	528.89 ppb	13:06:48
2	Zn 213.857†	36853.3	29715.5	522.03 ug/L	522.03 ppb	13:06:48
2	SiO2†	56920.0	46312.9	5522.0 ug/L	5522.0 ppb	13:07:49
3	Sc Radial	3462.0	3462.0	110 %		13:06:05
3	Y RADIAL	3693.7	3693.7	107.6 %		13:06:05
3	Al 396.153Radial†	3725.6	3471.0	4540.5 ug/L	4540.5 ppb	13:05:45
3	Ca 317.933Radial†	2292.3	2063.5	4870.5 ug/L	4870.5 ppb	13:06:05
3	Fe 238.204 Radial†	349.8	311.3	5105.8 ug/L	5105.8 ppb	13:06:05
3	K 766.490 Radial†	24069.4	19033.0	4768.2 ug/L	4768.2 ppb	13:05:45
3	Mg 279.077 IEC†	109.8	98.2	5184.6 ug/L	5184.6 ppb	13:06:05
3	Na 589.592 Radial†	16733.4	15803.1	8991.9 ug/L	8991.9 ppb	13:05:45
3	Sr 421.552†	40880.0	37091.0	472.13 ug/L	472.13 ppb	13:05:45
3	Sc 361.383	636851.1	636851.1	128.49 %		13:07:13
3	Y 371.029	433311.4	433311.4	104.69 %		13:07:18
3	Ag 328.068†	82091.3	63770.0	532.51 ug/L	532.51 ppb	13:07:18
3	As 188.979†	797.3	643.1	505.02 ug/L	505.02 ppb	13:07:38
3	B 249.677†	17037.6	13668.0	525.63 ug/L	525.63 ppb	13:07:18
3	Ba 233.527†	47021.5	36603.8	528.75 ug/L	528.75 ppb	13:07:18
3	Be 313.107†	1045554.0	817629.8	505.30 ug/L	505.30 ppb	13:07:13
3	Cd 226.502†	30389.0	23854.1	536.03 ug/L	536.03 ppb	13:07:18
3	Co 228.616†	18549.2	14494.3	532.93 ug/L	532.93 ppb	13:07:18
3	Cr 267.716†	30590.9	23732.2	528.01 ug/L	528.01 ppb	13:07:18
3	Cu 324.752†	138767.3	102777.3	527.90 ug/L	527.90 ppb	13:07:18
3	Mn 257.610†	346359.7	269144.5	524.19 ug/L	524.19 ppb	13:07:18
3	Mo 202.031†	4560.8	3544.0	496.84 ug/L	496.84 ppb	13:07:38
3	Ni 231.604†	14157.7	10941.9	530.40 ug/L	530.40 ppb	13:07:18
3	P 214.914†	3405.1	2435.8	2372.1 ug/L	2372.1 ppb	13:07:38
3	Pb 220.353†	2651.6	2125.7	500.91 ug/L	500.91 ppb	13:07:38
3	S 181.975 Axial†	566.0	405.2	995.16 ug/L	995.16 ppb	13:07:38
3	Sb 206.836†	1109.3	824.9	520.56 ug/L	520.56 ppb	13:07:38
3	Se 196.026†	524.9	434.0	518.50 ug/L	518.50 ppb	13:07:38
3	Si 251.611†	62396.9	47973.0	2678.4 ug/L	2678.4 ppb	13:07:18
3	Sn 189.927†	1860.8	1437.6	496.16 ug/L	496.16 ppb	13:07:38
3	Ti 334.940†	249953.9	195968.2	521.25 ug/L	521.25 ppb	13:07:18
3	Tl 190.801†	1079.9	867.5	500.14 ug/L	500.14 ppb	13:07:38
3	U 409.014†	9494.1	10128.9	553.75 ug/L	553.75 ppb	13:07:18
3	V 292.402†	49242.1	39910.8	534.90 ug/L	534.90 ppb	13:07:18
3	Zn 213.857†	39625.5	30187.8	530.35 ug/L	530.35 ppb	13:07:18
3	SiO2†	55466.0	42578.3	5076.2 ug/L	5076.2 ppb	13:07:54

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	610877.6	123.25 %	4.597			3.73%
Sc Radial	3398.6	108 %	1.9			1.78%
Y 371.029	427690.9	103.33 %	1.176			1.14%
Y RADIAL	3629.5	105.7 %	1.71			1.62%
Ag 328.068†	63469.7	530.01 ug/L	2.852	530.01 ppb	2.852	0.54%
QC value within limits for Ag 328.068 Recovery = 106.00%						
Al 396.153Radial†	3673.1	4805.7 ug/L	317.76	4805.7 ppb	317.76	6.61%
QC value within limits for Al 396.153Radial Recovery = 96.11%						
As 188.979†	658.9	517.21 ug/L	10.924	517.21 ppb	10.924	2.11%
QC value within limits for As 188.979 Recovery = 103.44%						
B 249.677†	13478.4	518.32 ug/L	6.577	518.32 ppb	6.577	1.27%
QC value within limits for B 249.677 Recovery = 103.66%						
Ba 233.527†	36577.4	528.36 ug/L	2.027	528.36 ppb	2.027	0.38%
QC value within limits for Ba 233.527 Recovery = 105.67%						
Be 313.107†	814266.1	503.22 ug/L	2.043	503.22 ppb	2.043	0.41%
QC value within limits for Be 313.107 Recovery = 100.64%						
Ca 317.933Radial†	2058.2	4857.9 ug/L	11.98	4857.9 ppb	11.98	0.25%

QC value within limits for Ca 317.933 Radial Recovery = 97.16%						
Cd	226.502†	23717.1	532.95 ug/L	3.148	532.95 ppb	3.148 0.59%
QC value within limits for Cd 226.502 Recovery = 106.59%						
Co	228.616†	14419.1	530.20 ug/L	2.524	530.20 ppb	2.524 0.48%
QC value within limits for Co 228.616 Recovery = 106.04%						
Cr	267.716†	23714.3	527.61 ug/L	2.107	527.61 ppb	2.107 0.40%
QC value within limits for Cr 267.716 Recovery = 105.52%						
Cu	324.752†	101862.9	523.21 ug/L	4.746	523.21 ppb	4.746 0.91%
QC value within limits for Cu 324.752 Recovery = 104.64%						
Fe	238.204 Radial†	310.9	5100.0 ug/L	20.41	5100.0 ppb	20.41 0.40%
QC value within limits for Fe 238.204 Radial Recovery = 102.00%						
K	766.490 Radial†	20273.0	5079.0 ug/L	383.52	5079.0 ppb	383.52 7.55%
QC value within limits for K 766.490 Radial Recovery = 101.58%						
Mg	279.077 IEC†	98.7	5209.2 ug/L	28.08	5209.2 ppb	28.08 0.54%
QC value within limits for Mg 279.077 IEC Recovery = 104.18%						
Mn	257.610†	268128.3	522.21 ug/L	2.547	522.21 ppb	2.547 0.49%
QC value within limits for Mn 257.610 Recovery = 104.44%						
Mo	202.031†	3640.2	510.31 ug/L	12.081	510.31 ppb	12.081 2.37%
QC value within limits for Mo 202.031 Recovery = 102.06%						
Na	589.592 Radial†	16882.3	9605.9 ug/L	720.76	9605.9 ppb	720.76 7.50%
QC value within limits for Na 589.592 Radial Recovery = 96.06%						
Ni	231.604†	10892.0	527.98 ug/L	2.866	527.98 ppb	2.866 0.54%
QC value within limits for Ni 231.604 Recovery = 105.60%						
P	214.914†	2518.7	2457.6 ug/L	75.73	2457.6 ppb	75.73 3.08%
QC value within limits for P 214.914 Recovery = 98.30%						
Pb	220.353†	2188.2	515.68 ug/L	13.239	515.68 ppb	13.239 2.57%
QC value within limits for Pb 220.353 Recovery = 103.14%						
S	181.975 Axial†	419.1	1029.3 ug/L	32.01	1029.3 ppb	32.01 3.11%
QC value within limits for S 181.975 Axial Recovery = 102.93%						
Sb	206.836†	843.6	532.51 ug/L	11.073	532.51 ppb	11.073 2.08%
QC value within limits for Sb 206.836 Recovery = 106.50%						
Se	196.026†	444.8	531.02 ug/L	11.148	531.02 ppb	11.148 2.10%
QC value within limits for Se 196.026 Recovery = 106.20%						
Si	251.611†	47486.2	2651.0 ug/L	25.16	2651.0 ppb	25.16 0.95%
QC value within limits for Si 251.611 Recovery = 106.04%						
Sn	189.927†	1483.1	511.80 ug/L	13.699	511.80 ppb	13.699 2.68%
QC value within limits for Sn 189.927 Recovery = 102.36%						
Sr	421.552†	39465.1	502.35 ug/L	35.796	502.35 ppb	35.796 7.13%
QC value within limits for Sr 421.552 Recovery = 100.47%						
Ti	334.940†	195041.1	518.79 ug/L	2.966	518.79 ppb	2.966 0.57%
QC value within limits for Ti 334.940 Recovery = 103.76%						
Tl	190.801†	890.2	513.12 ug/L	12.181	513.12 ppb	12.181 2.37%
QC value within limits for Tl 190.801 Recovery = 102.62%						
U	409.014†	9949.4	543.91 ug/L	8.550	543.91 ppb	8.550 1.57%
QC value within limits for U 409.014 Recovery = 108.78%						
V	292.402†	39735.3	532.75 ug/L	3.356	532.75 ppb	3.356 0.63%
QC value within limits for V 292.402 Recovery = 106.55%						
Zn	213.857†	29953.6	526.22 ug/L	4.164	526.22 ppb	4.164 0.79%
QC value within limits for Zn 213.857 Recovery = 105.24%						
SiO2†		46176.8	5506.0 ug/L	422.01	5506.0 ppb	422.01 7.66%
QC value within limits for SiO2 Recovery = 102.96%						

All analyte(s) passed QC.

Sequence No.: 22

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/29/2010 13:10:04

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	3364.7	3364.7	107 %		13:12:17
1	Y RADIAL	3754.5	3754.5	109.4 %		13:11:57
1	Al 396.153Radial†	-88.1	5.5	7.1493 ug/L	7.1493 ppb	13:12:17
1	Ca 317.933Radial†	16.5	-2.7	-6.4824 ug/L	-6.4824 ppb	13:12:17
1	Fe 238.204 Radial†	8.8	1.9	30.520 ug/L	30.520 ppb	13:12:17
1	K 766.490 Radial†	2877.1	-136.2	-34.155 ug/L	-34.155 ppb	13:11:57
1	Mg 279.077 IEC†	4.6	2.8	149.06 ug/L	149.06 ppb	13:12:17
1	Na 589.592 Radial†	-634.5	14.6	8.3063 ug/L	8.3063 ppb	13:11:57
1	Sr 421.552†	37.2	2.5	0.0319 ug/L	0.0319 ppb	13:11:57
1	Sc 361.383	514317.8	514317.8	103.77 %		13:13:14
1	Y 371.029	431605.4	431605.4	104.28 %		13:13:14
1	Ag 328.068†	74.6	-48.5	-0.4029 ug/L	-0.4029 ppb	13:13:14
1	As 188.979†	-27.2	-3.6	-2.8065 ug/L	-2.8065 ppb	13:13:34
1	B 249.677†	-472.8	-47.7	-1.8482 ug/L	-1.8482 ppb	13:13:34
1	Ba 233.527†	-6.6	1.3	0.0231 ug/L	0.0231 ppb	13:13:34
1	Be 313.107†	-4146.1	-105.0	-0.0643 ug/L	-0.0643 ppb	13:13:14
1	Cd 226.502†	-191.8	18.0	0.4053 ug/L	0.4053 ppb	13:13:34
1	Co 228.616†	-62.5	-2.4	-0.0897 ug/L	-0.0897 ppb	13:13:34
1	Cr 267.716†	64.7	-13.9	-0.3117 ug/L	-0.3117 ppb	13:13:34
1	Cu 324.752†	5511.3	88.0	0.4432 ug/L	0.4432 ppb	13:13:14
1	Mn 257.610†	406.0	-30.8	-0.0631 ug/L	-0.0631 ppb	13:13:34
1	Mo 202.031†	8.9	2.9	0.4144 ug/L	0.4144 ppb	13:13:34
1	Ni 231.604†	71.6	-7.8	-0.3805 ug/L	-0.3805 ppb	13:13:34
1	P 214.914†	213.1	-8.9	-9.1975 ug/L	-9.1975 ppb	13:13:34
1	Pb 220.353†	-78.4	-13.5	-3.1812 ug/L	-3.1812 ppb	13:13:34
1	S 181.975 Axial†	34.4	-2.2	-5.3808 ug/L	-5.3808 ppb	13:13:34
1	Sb 206.836†	41.2	1.2	0.7850 ug/L	0.7850 ppb	13:13:34
1	Se 196.026†	-31.6	-4.9	-5.6324 ug/L	-5.6324 ppb	13:13:34
1	Si 251.611†	546.0	-63.4	-3.5513 ug/L	-3.5513 ppb	13:13:34
1	Sn 189.927†	14.1	3.0	1.0182 ug/L	1.0182 ppb	13:13:34
1	Ti 334.940†	-1414.3	69.9	0.1648 ug/L	0.1648 ppb	13:13:14
1	Tl 190.801†	-30.9	-2.7	-1.5458 ug/L	-1.5458 ppb	13:13:34
1	U 409.014†	-2485.5	344.5	18.891 ug/L	18.891 ppb	13:13:14
1	V 292.402†	-1531.7	110.3	1.5003 ug/L	1.5003 ppb	13:13:14
1	Zn 213.857†	692.7	15.4	0.2701 ug/L	0.2701 ppb	13:13:34
1	SiO2†	583.1	-28.0	-3.3622 ug/L	-3.3622 ppb	13:14:30
2	Sc Radial	3308.4	3308.4	105 %		13:12:42
2	Y RADIAL	3832.2	3832.2	111.7 %		13:12:22
2	Al 396.153Radial†	-103.0	-10.1	-13.303 ug/L	-13.303 ppb	13:12:42
2	Ca 317.933Radial†	19.2	0.1	0.2228 ug/L	0.2228 ppb	13:12:42
2	Fe 238.204 Radial†	7.6	0.8	13.883 ug/L	13.883 ppb	13:12:42
2	K 766.490 Radial†	2840.2	-125.5	-31.490 ug/L	-31.490 ppb	13:12:22
2	Mg 279.077 IEC†	-0.7	-2.1	-112.46 ug/L	-112.46 ppb	13:12:42
2	Na 589.592 Radial†	-578.6	57.6	32.797 ug/L	32.797 ppb	13:12:22
2	Sr 421.552†	31.3	-2.5	-0.0316 ug/L	-0.0316 ppb	13:12:22
2	Sc 361.383	513590.4	513590.4	103.62 %		13:13:39
2	Y 371.029	430735.3	430735.3	104.07 %		13:13:39
2	Ag 328.068†	182.5	55.7	0.4669 ug/L	0.4669 ppb	13:13:39
2	As 188.979†	-23.8	-0.4	-0.3047 ug/L	-0.3047 ppb	13:13:59
2	B 249.677†	-504.6	-79.0	-3.0566 ug/L	-3.0566 ppb	13:13:59
2	Ba 233.527†	-16.8	-8.5	-0.1215 ug/L	-0.1215 ppb	13:13:59
2	Be 313.107†	-4076.3	-43.3	-0.0264 ug/L	-0.0264 ppb	13:13:39
2	Cd 226.502†	-208.4	1.7	0.0365 ug/L	0.0365 ppb	13:13:59
2	Co 228.616†	-45.1	14.3	0.5246 ug/L	0.5246 ppb	13:13:59
2	Cr 267.716†	105.6	25.7	0.5711 ug/L	0.5711 ppb	13:13:59
2	Cu 324.752†	5423.4	10.7	0.0546 ug/L	0.0546 ppb	13:13:39
2	Mn 257.610†	434.0	-3.2	-0.0003 ug/L	-0.0003 ppb	13:13:59
2	Mo 202.031†	8.4	2.5	0.3551 ug/L	0.3551 ppb	13:13:59
2	Ni 231.604†	61.7	-17.3	-0.8402 ug/L	-0.8402 ppb	13:13:59

2	P 214.914†	202.2	-19.1	-19.479 ug/L	-19.479 ppb	13:13:59
2	Pb 220.353†	-64.9	-0.6	-0.1352 ug/L	-0.1352 ppb	13:13:59
2	S 181.975 Axial†	36.0	-0.6	-1.5267 ug/L	-1.5267 ppb	13:13:59
2	Sb 206.836†	38.4	-1.4	-0.8325 ug/L	-0.8325 ppb	13:13:59
2	Se 196.026†	-16.0	10.0	11.627 ug/L	11.627 ppb	13:13:59
2	Si 251.611†	530.8	-77.3	-4.3278 ug/L	-4.3278 ppb	13:13:59
2	Sn 189.927†	12.1	1.0	0.3437 ug/L	0.3437 ppb	13:13:59
2	Ti 334.940†	-1435.0	47.9	0.1357 ug/L	0.1357 ppb	13:13:39
2	Tl 190.801†	-42.1	-13.5	-7.7579 ug/L	-7.7579 ppb	13:13:59
2	U 409.014†	-2802.4	35.3	1.9340 ug/L	1.9340 ppb	13:13:39
2	V 292.402†	-1600.8	41.5	0.5540 ug/L	0.5540 ppb	13:13:39
2	Zn 213.857†	690.0	13.8	0.2472 ug/L	0.2472 ppb	13:13:59
2	SiO2†	580.9	-29.4	-3.5275 ug/L	-3.5275 ppb	13:14:35
3	Sc Radial	3468.6	3468.6	110 %		13:13:07
3	Y RADIAL	3649.8	3649.8	106.3 %		13:12:47
3	Al 396.153Radial†	-88.3	7.7	10.030 ug/L	10.030 ppb	13:13:07
3	Ca 317.933Radial†	16.8	-2.9	-6.8141 ug/L	-6.8141 ppb	13:13:07
3	Fe 238.204 Radial†	7.4	0.3	4.6055 ug/L	4.6055 ppb	13:13:07
3	K 766.490 Radial†	2883.4	-211.0	-52.935 ug/L	-52.935 ppb	13:12:47
3	Mg 279.077 IEC†	0.6	-0.9	-50.128 ug/L	-50.128 ppb	13:13:07
3	Na 589.592 Radial†	-650.8	17.7	10.047 ug/L	10.047 ppb	13:12:47
3	Sr 421.552†	6.8	-26.1	-0.3325 ug/L	-0.3325 ppb	13:12:47
3	Sc 361.383	506785.1	506785.1	102.25 %		13:14:04
3	Y 371.029	425461.8	425461.8	102.79 %		13:14:04
3	Ag 328.068†	79.5	-42.7	-0.3576 ug/L	-0.3576 ppb	13:14:04
3	As 188.979†	-22.9	0.2	0.1296 ug/L	0.1296 ppb	13:14:24
3	B 249.677†	-526.7	-107.1	-4.1388 ug/L	-4.1388 ppb	13:14:24
3	Ba 233.527†	-2.8	5.0	0.0737 ug/L	0.0737 ppb	13:14:24
3	Be 313.107†	-4014.4	-35.5	-0.0220 ug/L	-0.0220 ppb	13:14:04
3	Cd 226.502†	-210.2	-2.8	-0.0615 ug/L	-0.0615 ppb	13:14:24
3	Co 228.616†	-62.3	-3.2	-0.1138 ug/L	-0.1138 ppb	13:14:24
3	Cr 267.716†	85.8	7.7	0.1682 ug/L	0.1682 ppb	13:14:24
3	Cu 324.752†	5277.1	-62.1	-0.3242 ug/L	-0.3242 ppb	13:14:04
3	Mn 257.610†	437.1	5.4	0.0131 ug/L	0.0131 ppb	13:14:24
3	Mo 202.031†	16.4	10.5	1.4694 ug/L	1.4694 ppb	13:14:24
3	Ni 231.604†	78.6	0.1	0.0029 ug/L	0.0029 ppb	13:14:24
3	P 214.914†	203.3	-15.5	-15.666 ug/L	-15.666 ppb	13:14:24
3	Pb 220.353†	-60.1	3.3	0.7797 ug/L	0.7797 ppb	13:14:24
3	S 181.975 Axial†	34.7	-1.4	-3.4049 ug/L	-3.4049 ppb	13:14:24
3	Sb 206.836†	39.7	0.4	0.2678 ug/L	0.2678 ppb	13:14:24
3	Se 196.026†	-26.5	-0.4	-0.4537 ug/L	-0.4537 ppb	13:14:24
3	Si 251.611†	564.0	-37.9	-2.1408 ug/L	-2.1408 ppb	13:14:24
3	Sn 189.927†	12.0	1.1	0.3869 ug/L	0.3869 ppb	13:14:24
3	Ti 334.940†	-1481.3	-15.9	-0.0436 ug/L	-0.0436 ppb	13:14:04
3	Tl 190.801†	-35.0	-7.2	-4.1037 ug/L	-4.1037 ppb	13:14:24
3	U 409.014†	-2608.1	189.0	10.363 ug/L	10.363 ppb	13:14:04
3	V 292.402†	-1556.1	64.5	0.8921 ug/L	0.8921 ppb	13:14:04
3	Zn 213.857†	700.7	33.2	0.5876 ug/L	0.5876 ppb	13:14:24
3	SiO2†	594.5	-8.6	-1.0670 ug/L	-1.0670 ppb	13:14:40

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	511564.4	103.21 %	0.838			0.81%
Sc Radial	3380.6	108 %	2.6			2.40%
Y 371.029	429267.5	103.71 %	0.803			0.77%
Y RADIAL	3745.5	109.1 %	2.67			2.44%
Ag 328.068†	-11.9	-0.0979 ug/L	0.48963	-0.0979 ppb	0.48963	500.22%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	1.0	1.2923 ug/L	12.72126	1.2923 ppb	12.72126	984.42%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.3	-0.9939 ug/L	1.58473	-0.9939 ppb	1.58473	159.45%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-78.0	-3.0146 ug/L	1.14588	-3.0146 ppb	1.14588	38.01%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-0.8	-0.0082 ug/L	0.10131	-0.0082 ppb	0.10131	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-61.3	-0.0376 ug/L	0.02325	-0.0376 ppb	0.02325	61.88%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-1.8	-4.3579 ug/L	3.97046	-4.3579 ppb	3.97046	91.11%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	5.6	0.1268 ug/L	0.24613	0.1268 ppb	0.24613 194.16%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	2.9	0.1070 ug/L	0.36186	0.1070 ppb	0.36186 338.07%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	6.5	0.1426 ug/L	0.44198	0.1426 ppb	0.44198 310.04%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	12.2	0.0579 ug/L	0.38375	0.0579 ppb	0.38375 662.97%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	1.0	16.336 ug/L	13.1301	16.336 ppb	13.1301 80.38%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	-157.6	-39.527 ug/L	11.6880	-39.527 ppb	11.6880 29.57%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	-0.1	-4.5088 ug/L	136.60098	-4.5088 ppb	136.60098 >999.9%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	-9.5	-0.0168 ug/L	0.04064	-0.0168 ppb	0.04064 242.12%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	5.3	0.7463 ug/L	0.62693	0.7463 ppb	0.62693 84.00%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	30.0	17.050 ug/L	13.6648	17.050 ppb	13.6648 80.15%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	-8.4	-0.4059 ug/L	0.42216	-0.4059 ppb	0.42216 103.99%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	-14.5	-14.781 ug/L	5.1974	-14.781 ppb	5.1974 35.16%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	-3.6	-0.8456 ug/L	2.07378	-0.8456 ppb	2.07378 245.25%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	-1.4	-3.4375 ug/L	1.92722	-3.4375 ppb	1.92722 56.07%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	0.1	0.0734 ug/L	0.82608	0.0734 ppb	0.82608 >999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	1.6	1.8469 ug/L	8.85658	1.8469 ppb	8.85658 479.54%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	-59.5	-3.3400 ug/L	1.10874	-3.3400 ppb	1.10874 33.20%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	1.7	0.5829 ug/L	0.37758	0.5829 ppb	0.37758 64.77%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-8.7	-0.1107 ug/L	0.19463	-0.1107 ppb	0.19463 175.78%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	34.0	0.0856 ug/L	0.11286	0.0856 ppb	0.11286 131.80%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	-7.8	-4.4691 ug/L	3.12211	-4.4691 ppb	3.12211 69.86%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	189.6	10.396 ug/L	8.4786	10.396 ppb	8.4786 81.56%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	72.1	0.9821 ug/L	0.47957	0.9821 ppb	0.47957 48.83%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	20.8	0.3683 ug/L	0.19032	0.3683 ppb	0.19032 51.68%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	-22.0	-2.6522 ug/L	1.37531	-2.6522 ppb	1.37531 51.85%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

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Analysis Begun

Start Time: 3/29/2010 14:03:57

Plasma On Time: 3/29/2010 05:42:15

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\032910.sif

Batch ID:

Results Data Set: 032910A

Results Library: C:\pe\Optima3\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/29/2010 14:03:58

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

User canceled analysis.

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Analysis Begun

Start Time: 3/29/2010 14:12:14

Plasma On Time: 3/29/2010 14:10:41

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\032910.sif

Batch ID:

Results Data Set: 032910A

Results Library: C:\pe\Optima3\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/29/2010 14:12:14

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	3051.0	3051.0	97.0 %		14:14:26
1	Y RADIAL	3284.6	3284.6	95.70 %		14:14:26
1	Al 396.153Radial†	3748.2	3950.0	5170.3 ug/L	5170.3 ppb	14:14:06
1	Ca 317.933Radial†	2054.1	2098.5	4953.0 ug/L	4953.0 ppb	14:14:26
1	Fe 238.204 Radial†	320.9	324.2	5318.8 ug/L	5318.8 ppb	14:14:26
1	K 766.490 Radial†	24415.5	22333.9	5595.2 ug/L	5595.2 ppb	14:14:06
1	Mg 279.077 IEC†	98.4	99.9	5274.1 ug/L	5274.1 ppb	14:14:26
1	Na 589.592 Radial†	18891.4	20073.7	11422 ug/L	11422 ppb	14:14:06
1	Sr 421.552†	43083.6	44362.4	564.70 ug/L	564.70 ppb	14:14:06
1	Sc 361.383	599245.5	599245.5	120.90 %		14:15:23
1	Y 371.029	435099.6	435099.6	105.12 %		14:15:29
1	Ag 328.068†	82159.4	67835.7	566.44 ug/L	566.44 ppb	14:15:29
1	As 188.979†	767.4	657.3	516.39 ug/L	516.39 ppb	14:15:49
1	B 249.677†	17193.1	14628.8	562.58 ug/L	562.58 ppb	14:15:29
1	Ba 233.527†	47729.4	39486.0	570.36 ug/L	570.36 ppb	14:15:29
1	Be 313.107†	997807.7	829203.6	512.51 ug/L	512.51 ppb	14:15:23
1	Cd 226.502†	30873.6	25739.2	578.40 ug/L	578.40 ppb	14:15:29
1	Co 228.616†	18917.2	15704.6	577.37 ug/L	577.37 ppb	14:15:29
1	Cr 267.716†	30850.9	25441.3	566.03 ug/L	566.03 ppb	14:15:29
1	Cu 324.752†	138455.9	109297.2	561.40 ug/L	561.40 ppb	14:15:29
1	Mn 257.610†	350430.6	289428.3	563.69 ug/L	563.69 ppb	14:15:29
1	Mo 202.031†	4329.2	3575.2	501.23 ug/L	501.23 ppb	14:15:49
1	Ni 231.604†	14313.1	11761.9	570.15 ug/L	570.15 ppb	14:15:29
1	P 214.914†	3261.9	2483.7	2414.2 ug/L	2414.2 ppb	14:15:49
1	Pb 220.353†	2516.6	2143.6	505.24 ug/L	505.24 ppb	14:15:49
1	S 181.975 Axial†	542.5	413.4	1015.1 ug/L	1015.1 ppb	14:15:49
1	Sb 206.836†	1039.8	821.5	518.79 ug/L	518.79 ppb	14:15:49

1	Se 196.026†	499.0	438.2	524.07 ug/L	524.07 ppb	14:15:49
1	Si 251.611†	63246.9	51723.7	2888.3 ug/L	2888.3 ppb	14:15:29
1	Sn 189.927†	1792.4	1471.9	508.01 ug/L	508.01 ppb	14:15:49
1	Ti 334.940†	250827.9	208899.2	555.65 ug/L	555.65 ppb	14:15:29
1	Tl 190.801†	1045.6	891.9	514.32 ug/L	514.32 ppb	14:15:49
1	U 409.014†	9101.6	10268.0	561.27 ug/L	561.27 ppb	14:15:29
1	V 292.402†	49357.9	42411.6	567.99 ug/L	567.99 ppb	14:15:29
1	Zn 213.857†	40218.1	32613.3	573.02 ug/L	573.02 ppb	14:15:29
1	SiO2†	57107.1	46644.8	5562.2 ug/L	5562.2 ppb	14:16:55
2	Sc Radial	3230.7	3230.7	103 %		14:14:51
2	Y RADIAL	3456.5	3456.5	100.7 %		14:14:51
2	Al 396.153Radial†	3441.7	3437.0	4493.8 ug/L	4493.8 ppb	14:14:31
2	Ca 317.933Radial†	2143.0	2067.3	4879.5 ug/L	4879.5 ppb	14:14:51
2	Fe 238.204 Radial†	338.3	322.8	5294.7 ug/L	5294.7 ppb	14:14:51
2	K 766.490 Radial†	22829.8	19391.7	4857.8 ug/L	4857.8 ppb	14:14:31
2	Mg 279.077 IEC†	105.6	101.3	5346.7 ug/L	5346.7 ppb	14:14:51
2	Na 589.592 Radial†	17016.1	17166.3	9767.5 ug/L	9767.5 ppb	14:14:31
2	Sr 421.552†	39251.1	38163.8	485.79 ug/L	485.79 ppb	14:14:31
2	Sc 361.383	589467.7	589467.7	118.93 %		14:15:54
2	Y 371.029	418149.6	418149.6	101.03 %		14:15:59
2	Ag 328.068†	73804.5	61937.8	517.31 ug/L	517.31 ppb	14:15:59
2	As 188.979†	823.2	714.8	560.59 ug/L	560.59 ppb	14:16:19
2	B 249.677†	15332.6	13300.3	511.44 ug/L	511.44 ppb	14:15:59
2	Ba 233.527†	42633.7	35856.1	517.94 ug/L	517.94 ppb	14:15:59
2	Be 313.107†	979270.9	827306.9	511.23 ug/L	511.23 ppb	14:15:54
2	Cd 226.502†	27107.6	22996.1	516.71 ug/L	516.71 ppb	14:15:59
2	Co 228.616†	16677.7	14081.2	517.87 ug/L	517.87 ppb	14:15:59
2	Cr 267.716†	27508.1	23053.8	512.96 ug/L	512.96 ppb	14:15:59
2	Cu 324.752†	123750.1	98831.5	507.66 ug/L	507.66 ppb	14:15:59
2	Mn 257.610†	312244.9	262127.9	510.54 ug/L	510.54 ppb	14:15:59
2	Mo 202.031†	4575.3	3841.5	538.53 ug/L	538.53 ppb	14:16:19
2	Ni 231.604†	12653.8	10563.1	512.03 ug/L	512.03 ppb	14:15:59
2	P 214.914†	3469.0	2702.6	2647.6 ug/L	2647.6 ppb	14:16:19
2	Pb 220.353†	2665.5	2303.4	542.71 ug/L	542.71 ppb	14:16:19
2	S 181.975 Axial†	588.7	459.7	1129.2 ug/L	1129.2 ppb	14:16:19
2	Sb 206.836†	1106.3	891.7	562.86 ug/L	562.86 ppb	14:16:19
2	Se 196.026†	534.3	474.8	566.25 ug/L	566.25 ppb	14:16:19
2	Si 251.611†	55768.0	46302.7	2584.5 ug/L	2584.5 ppb	14:15:59
2	Sn 189.927†	1883.4	1573.0	542.77 ug/L	542.77 ppb	14:16:19
2	Ti 334.940†	224789.9	190446.6	506.57 ug/L	506.57 ppb	14:15:59
2	Tl 190.801†	1104.5	955.7	550.55 ug/L	550.55 ppb	14:16:19
2	U 409.014†	8178.6	9616.8	525.67 ug/L	525.67 ppb	14:15:59
2	V 292.402†	44090.3	38659.6	518.87 ug/L	518.87 ppb	14:15:59
2	Zn 213.857†	35636.5	29312.7	514.95 ug/L	514.95 ppb	14:15:59
2	SiO2†	62668.3	52104.4	6213.8 ug/L	6213.8 ppb	14:17:00
3	Sc Radial	3476.4	3476.4	111 %		14:15:17
3	Y RADIAL	3703.1	3703.1	107.9 %		14:15:17
3	Al 396.153Radial†	3701.5	3435.3	4492.9 ug/L	4492.9 ppb	14:14:56
3	Ca 317.933Radial†	2322.5	2082.3	4914.7 ug/L	4914.7 ppb	14:15:17
3	Fe 238.204 Radial†	359.7	318.9	5230.3 ug/L	5230.3 ppb	14:15:17
3	K 766.490 Radial†	24086.2	18958.2	4749.2 ug/L	4749.2 ppb	14:14:56
3	Mg 279.077 IEC†	113.5	101.2	5343.3 ug/L	5343.3 ppb	14:15:17
3	Na 589.592 Radial†	18060.5	16940.7	9639.2 ug/L	9639.2 ppb	14:14:56
3	Sr 421.552†	41918.7	37877.5	482.14 ug/L	482.14 ppb	14:14:56
3	Sc 361.383	602742.3	602742.3	121.61 %		14:16:25
3	Y 371.029	415165.7	415165.7	100.31 %		14:16:30
3	Ag 328.068†	72476.0	59478.6	496.82 ug/L	496.82 ppb	14:16:30
3	As 188.979†	776.5	661.1	518.72 ug/L	518.72 ppb	14:16:50
3	B 249.677†	14958.5	12708.7	488.65 ug/L	488.65 ppb	14:16:30
3	Ba 233.527†	42018.9	34561.0	499.24 ug/L	499.24 ppb	14:16:30
3	Be 313.107†	998510.4	824993.4	509.76 ug/L	509.76 ppb	14:16:25
3	Cd 226.502†	26865.7	22295.2	500.95 ug/L	500.95 ppb	14:16:30
3	Co 228.616†	16469.9	13601.4	500.20 ug/L	500.20 ppb	14:16:30
3	Cr 267.716†	27100.6	22209.4	494.18 ug/L	494.18 ppb	14:16:30
3	Cu 324.752†	120986.0	94266.9	484.23 ug/L	484.23 ppb	14:16:30
3	Mn 257.610†	307676.5	252588.8	491.97 ug/L	491.97 ppb	14:16:30
3	Mo 202.031†	4430.3	3637.6	509.96 ug/L	509.96 ppb	14:16:50
3	Ni 231.604†	12535.1	10231.1	495.94 ug/L	495.94 ppb	14:16:30
3	P 214.914†	3335.5	2528.6	2475.1 ug/L	2475.1 ppb	14:16:50
3	Pb 220.353†	2592.6	2194.1	516.99 ug/L	516.99 ppb	14:16:50
3	S 181.975 Axial†	556.2	422.0	1036.5 ug/L	1036.5 ppb	14:16:50

3	Sb 206.836†	1069.3	840.8	530.74 ug/L	530.74 ppb	14:16:50
3	Se 196.026†	513.2	447.5	534.48 ug/L	534.48 ppb	14:16:50
3	Si 251.611†	54640.1	44342.5	2475.1 ug/L	2475.1 ppb	14:16:30
3	Sn 189.927†	1811.5	1479.0	510.44 ug/L	510.44 ppb	14:16:50
3	Ti 334.940†	220937.3	183115.7	487.08 ug/L	487.08 ppb	14:16:30
3	Tl 190.801†	1059.3	898.1	517.43 ug/L	517.43 ppb	14:16:50
3	U 409.014†	7754.8	9116.8	498.30 ug/L	498.30 ppb	14:16:30
3	V 292.402†	43193.5	37105.6	497.89 ug/L	497.89 ppb	14:16:30
3	Zn 213.857†	35030.6	28154.5	494.56 ug/L	494.56 ppb	14:16:30
3	SiO2†	55837.1	45326.4	5404.4 ug/L	5404.4 ppb	14:17:05

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	597151.9	120.48 %	1.388			1.15%
Sc Radial	3252.7	103 %	6.8			6.56%
Y 371.029	422805.0	102.15 %	2.598			2.54%
Y RADIAL	3481.4	101.4 %	6.13			6.04%
Ag 328.068†	63084.0	526.86 ug/L	35.781	526.86 ppb	35.781	6.79%
QC value within limits for Ag 328.068 Recovery = 105.37%						
Al 396.153Radial†	3607.4	4719.0 ug/L	390.84	4719.0 ppb	390.84	8.28%
QC value within limits for Al 396.153Radial Recovery = 94.38%						
As 188.979†	677.7	531.90 ug/L	24.875	531.90 ppb	24.875	4.68%
QC value within limits for As 188.979 Recovery = 106.38%						
B 249.677†	13546.0	520.89 ug/L	37.863	520.89 ppb	37.863	7.27%
QC value within limits for B 249.677 Recovery = 104.18%						
Ba 233.527†	36634.4	529.18 ug/L	36.868	529.18 ppb	36.868	6.97%
QC value within limits for Ba 233.527 Recovery = 105.84%						
Be 313.107†	827168.0	511.17 ug/L	1.377	511.17 ppb	1.377	0.27%
QC value within limits for Be 313.107 Recovery = 102.23%						
Ca 317.933Radial†	2082.7	4915.7 ug/L	36.78	4915.7 ppb	36.78	0.75%
QC value within limits for Ca 317.933Radial Recovery = 98.31%						
Cd 226.502†	23676.8	532.02 ug/L	40.933	532.02 ppb	40.933	7.69%
QC value within limits for Cd 226.502 Recovery = 106.40%						
Co 228.616†	14462.4	531.81 ug/L	40.430	531.81 ppb	40.430	7.60%
QC value within limits for Co 228.616 Recovery = 106.36%						
Cr 267.716†	23568.2	524.39 ug/L	37.262	524.39 ppb	37.262	7.11%
QC value within limits for Cr 267.716 Recovery = 104.88%						
Cu 324.752†	100798.5	517.76 ug/L	39.568	517.76 ppb	39.568	7.64%
QC value within limits for Cu 324.752 Recovery = 103.55%						
Fe 238.204 Radial†	322.0	5281.3 ug/L	45.77	5281.3 ppb	45.77	0.87%
QC value within limits for Fe 238.204 Radial Recovery = 105.63%						
K 766.490 Radial†	20227.9	5067.4 ug/L	460.30	5067.4 ppb	460.30	9.08%
QC value within limits for K 766.490 Radial Recovery = 101.35%						
Mg 279.077 IEC†	100.8	5321.4 ug/L	40.99	5321.4 ppb	40.99	0.77%
QC value within limits for Mg 279.077 IEC Recovery = 106.43%						
Mn 257.610†	268048.3	522.07 ug/L	37.223	522.07 ppb	37.223	7.13%
QC value within limits for Mn 257.610 Recovery = 104.41%						
Mo 202.031†	3684.8	516.57 ug/L	19.512	516.57 ppb	19.512	3.78%
QC value within limits for Mo 202.031 Recovery = 103.31%						
Na 589.592 Radial†	18060.3	10276 ug/L	994.2	10276 ppb	994.2	9.68%
QC value within limits for Na 589.592 Radial Recovery = 102.76%						
Ni 231.604†	10852.0	526.04 ug/L	39.035	526.04 ppb	39.035	7.42%
QC value within limits for Ni 231.604 Recovery = 105.21%						
P 214.914†	2571.6	2512.3 ug/L	121.03	2512.3 ppb	121.03	4.82%
QC value within limits for P 214.914 Recovery = 100.49%						
Pb 220.353†	2213.7	521.65 ug/L	19.165	521.65 ppb	19.165	3.67%
QC value within limits for Pb 220.353 Recovery = 104.33%						
S 181.975 Axial†	431.7	1060.2 ug/L	60.63	1060.2 ppb	60.63	5.72%
QC value within limits for S 181.975 Axial Recovery = 106.02%						
Sb 206.836†	851.4	537.46 ug/L	22.790	537.46 ppb	22.790	4.24%
QC value within limits for Sb 206.836 Recovery = 107.49%						
Se 196.026†	453.5	541.60 ug/L	21.972	541.60 ppb	21.972	4.06%
QC value within limits for Se 196.026 Recovery = 108.32%						
Si 251.611†	47456.3	2649.3 ug/L	214.07	2649.3 ppb	214.07	8.08%
QC value within limits for Si 251.611 Recovery = 105.97%						
Sn 189.927†	1508.0	520.41 ug/L	19.409	520.41 ppb	19.409	3.73%
QC value within limits for Sn 189.927 Recovery = 104.08%						
Sr 421.552†	40134.6	510.88 ug/L	46.645	510.88 ppb	46.645	9.13%
QC value within limits for Sr 421.552 Recovery = 102.18%						

Ti 334.940†	194153.8	516.43 ug/L	35.331	516.43 ppb	35.331	6.84%
QC value within limits for Ti 334.940 Recovery = 103.29%						
Tl 190.801†	915.3	527.43 ug/L	20.078	527.43 ppb	20.078	3.81%
QC value within limits for Tl 190.801 Recovery = 105.49%						
U 409.014†	9667.2	528.41 ug/L	31.572	528.41 ppb	31.572	5.97%
QC value within limits for U 409.014 Recovery = 105.68%						
V 292.402†	39392.3	528.25 ug/L	35.983	528.25 ppb	35.983	6.81%
QC value within limits for V 292.402 Recovery = 105.65%						
Zn 213.857†	30026.8	527.51 ug/L	40.710	527.51 ppb	40.710	7.72%
QC value within limits for Zn 213.857 Recovery = 105.50%						
SiO2†	48025.2	5726.8 ug/L	429.10	5726.8 ppb	429.10	7.49%
QC value within limits for SiO2 Recovery = 107.09%						

All analyte(s) passed QC.

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/29/2010 14:19:15

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3370.6	3370.6	107 %		14:21:28
1	Y RADIAL	3616.2	3616.2	105.4 %		14:21:28
1	Al 396.153Radial†	-89.8	4.0	5.1753 ug/L	5.1753 ppb	14:21:08
1	Ca 317.933Radial†	17.5	-1.8	-4.1880 ug/L	-4.1880 ppb	14:21:28
1	Fe 238.204 Radial†	9.0	2.0	32.328 ug/L	32.328 ppb	14:21:28
1	K 766.490 Radial†	2890.2	-128.7	-32.290 ug/L	-32.290 ppb	14:21:08
1	Mg 279.077 IEC†	1.8	0.2	10.584 ug/L	10.584 ppb	14:21:28
1	Na 589.592 Radial†	-594.6	52.9	30.109 ug/L	30.109 ppb	14:21:08
1	Sr 421.552†	32.6	-1.9	-0.0239 ug/L	-0.0239 ppb	14:21:08
1	Sc 361.383	503084.8	503084.8	101.50 %		14:22:24
1	Y 371.029	422171.5	422171.5	102.00 %		14:22:24
1	Ag 328.068†	191.1	67.8	0.5711 ug/L	0.5711 ppb	14:22:24
1	As 188.979†	-15.1	7.8	6.0465 ug/L	6.0465 ppb	14:22:45
1	B 249.677†	-458.1	-43.4	-1.6824 ug/L	-1.6824 ppb	14:22:45
1	Ba 233.527†	-13.0	-5.1	-0.0712 ug/L	-0.0712 ppb	14:22:45
1	Be 313.107†	-4128.1	-176.5	-0.1083 ug/L	-0.1083 ppb	14:22:24
1	Cd 226.502†	-200.0	5.8	0.1269 ug/L	0.1269 ppb	14:22:45
1	Co 228.616†	-63.3	-4.6	-0.1667 ug/L	-0.1667 ppb	14:22:45
1	Cr 267.716†	100.0	22.2	0.4961 ug/L	0.4961 ppb	14:22:45
1	Cu 324.752†	5135.3	-163.8	-0.8420 ug/L	-0.8420 ppb	14:22:24
1	Mn 257.610†	449.0	20.3	0.0423 ug/L	0.0423 ppb	14:22:45
1	Mo 202.031†	21.7	15.8	2.2170 ug/L	2.2170 ppb	14:22:45
1	Ni 231.604†	70.3	-7.6	-0.3694 ug/L	-0.3694 ppb	14:22:45
1	P 214.914†	219.6	2.1	2.2851 ug/L	2.2851 ppb	14:22:45
1	Pb 220.353†	-65.9	-2.9	-0.6666 ug/L	-0.6666 ppb	14:22:45
1	S 181.975 Axial†	30.5	-5.3	-12.993 ug/L	-12.993 ppb	14:22:45
1	Sb 206.836†	37.4	-1.6	-0.8737 ug/L	-0.8737 ppb	14:22:45
1	Se 196.026†	-28.4	-2.5	-2.8152 ug/L	-2.8152 ppb	14:22:45
1	Si 251.611†	606.8	8.3	0.4397 ug/L	0.4397 ppb	14:22:45
1	Sn 189.927†	22.7	11.7	4.0352 ug/L	4.0352 ppb	14:22:45
1	Ti 334.940†	-1374.5	78.6	0.2060 ug/L	0.2060 ppb	14:22:24
1	Tl 190.801†	-37.3	-9.7	-5.5706 ug/L	-5.5706 ppb	14:22:45
1	U 409.014†	-2711.8	68.1	3.7305 ug/L	3.7305 ppb	14:22:24
1	V 292.402†	-1581.7	28.1	0.4051 ug/L	0.4051 ppb	14:22:24
1	Zn 213.857†	729.9	67.0	1.1865 ug/L	1.1865 ppb	14:22:45
1	SiO2†	661.7	61.9	7.3400 ug/L	7.3400 ppb	14:23:40
2	Sc Radial	3359.5	3359.5	107 %		14:21:53
2	Y RADIAL	3595.8	3595.8	104.8 %		14:21:53
2	Al 396.153Radial†	-92.9	0.8	0.9953 ug/L	0.9953 ppb	14:21:33
2	Ca 317.933Radial†	22.2	2.6	6.1834 ug/L	6.1834 ppb	14:21:53
2	Fe 238.204 Radial†	6.8	-0.1	-1.0356 ug/L	-1.0356 ppb	14:21:53
2	K 766.490 Radial†	2773.6	-228.8	-57.416 ug/L	-57.416 ppb	14:21:33
2	Mg 279.077 IEC†	0.9	-0.6	-32.561 ug/L	-32.561 ppb	14:21:53
2	Na 589.592 Radial†	-590.1	55.3	31.448 ug/L	31.448 ppb	14:21:33
2	Sr 421.552†	36.8	2.2	0.0282 ug/L	0.0282 ppb	14:21:33
2	Sc 361.383	503178.9	503178.9	101.52 %		14:22:50
2	Y 371.029	422503.6	422503.6	102.08 %		14:22:50
2	Ag 328.068†	61.9	-59.5	-0.5072 ug/L	-0.5072 ppb	14:22:50
2	As 188.979†	-21.4	1.6	1.2125 ug/L	1.2125 ppb	14:23:10
2	B 249.677†	-459.0	-44.2	-1.7058 ug/L	-1.7058 ppb	14:23:10
2	Ba 233.527†	-11.9	-4.0	-0.0590 ug/L	-0.0590 ppb	14:23:10
2	Be 313.107†	-4202.3	-248.7	-0.1543 ug/L	-0.1543 ppb	14:22:50
2	Cd 226.502†	-205.5	0.4	0.0113 ug/L	0.0113 ppb	14:23:10
2	Co 228.616†	-61.8	-3.1	-0.1141 ug/L	-0.1141 ppb	14:23:10
2	Cr 267.716†	93.6	16.0	0.3491 ug/L	0.3491 ppb	14:23:10
2	Cu 324.752†	5243.3	-58.4	-0.3068 ug/L	-0.3068 ppb	14:22:50
2	Mn 257.610†	440.9	12.2	0.0251 ug/L	0.0251 ppb	14:23:10
2	Mo 202.031†	8.1	2.4	0.3320 ug/L	0.3320 ppb	14:23:10
2	Ni 231.604†	64.1	-13.7	-0.6658 ug/L	-0.6658 ppb	14:23:10

2	P 214.914†	212.4	-5.1	-5.1333 ug/L	-5.1333 ppb	14:23:10
2	Pb 220.353†	-73.8	-10.6	-2.4925 ug/L	-2.4925 ppb	14:23:10
2	S 181.975 Axial†	44.5	8.5	20.857 ug/L	20.857 ppb	14:23:10
2	Sb 206.836†	39.5	0.5	0.3032 ug/L	0.3032 ppb	14:23:10
2	Se 196.026†	-22.4	3.4	3.9399 ug/L	3.9399 ppb	14:23:10
2	Si 251.611†	578.1	-20.1	-1.1267 ug/L	-1.1267 ppb	14:23:10
2	Sn 189.927†	13.7	2.9	0.9891 ug/L	0.9891 ppb	14:23:10
2	Ti 334.940†	-1610.0	-153.0	-0.4093 ug/L	-0.4093 ppb	14:22:50
2	Tl 190.801†	-33.0	-5.4	-3.1018 ug/L	-3.1018 ppb	14:23:10
2	U 409.014†	-2553.4	224.6	12.317 ug/L	12.317 ppb	14:22:50
2	V 292.402†	-1665.2	-53.8	-0.6845 ug/L	-0.6845 ppb	14:22:50
2	Zn 213.857†	703.0	40.4	0.7208 ug/L	0.7208 ppb	14:23:10
2	SiO2†	630.7	31.2	3.7234 ug/L	3.7234 ppb	14:23:45
3	Sc Radial	3400.0	3400.0	108 %		14:22:18
3	Y RADIAL	3643.7	3643.7	106.2 %		14:22:18
3	Al 396.153Radial†	-94.7	0.2	0.2353 ug/L	0.2353 ppb	14:21:58
3	Ca 317.933Radial†	23.8	3.9	9.1977 ug/L	9.1977 ppb	14:22:18
3	Fe 238.204 Radial†	8.8	1.8	28.908 ug/L	28.908 ppb	14:22:18
3	K 766.490 Radial†	2841.1	-197.4	-49.542 ug/L	-49.542 ppb	14:21:58
3	Mg 279.077 IEC†	2.2	0.6	31.563 ug/L	31.563 ppb	14:22:18
3	Na 589.592 Radial†	-594.9	57.4	32.655 ug/L	32.655 ppb	14:21:58
3	Sr 421.552†	12.1	-21.0	-0.2679 ug/L	-0.2679 ppb	14:21:58
3	Sc 361.383	506110.8	506110.8	102.11 %		14:23:15
3	Y 371.029	424692.9	424692.9	102.61 %		14:23:15
3	Ag 328.068†	88.1	-34.2	-0.2862 ug/L	-0.2862 ppb	14:23:15
3	As 188.979†	-28.9	-5.7	-4.4249 ug/L	-4.4249 ppb	14:23:35
3	B 249.677†	-450.5	-33.2	-1.2890 ug/L	-1.2890 ppb	14:23:35
3	Ba 233.527†	12.1	19.5	0.2819 ug/L	0.2819 ppb	14:23:35
3	Be 313.107†	-4310.4	-330.7	-0.2039 ug/L	-0.2039 ppb	14:23:15
3	Cd 226.502†	-203.8	3.2	0.0718 ug/L	0.0718 ppb	14:23:35
3	Co 228.616†	-47.7	11.0	0.4059 ug/L	0.4059 ppb	14:23:35
3	Cr 267.716†	77.5	-0.4	-0.0106 ug/L	-0.0106 ppb	14:23:35
3	Cu 324.752†	5202.5	-128.3	-0.6651 ug/L	-0.6651 ppb	14:23:15
3	Mn 257.610†	427.5	-3.4	-0.0050 ug/L	-0.0050 ppb	14:23:35
3	Mo 202.031†	12.3	6.4	0.9051 ug/L	0.9051 ppb	14:23:35
3	Ni 231.604†	71.8	-6.5	-0.3169 ug/L	-0.3169 ppb	14:23:35
3	P 214.914†	225.1	6.2	6.3643 ug/L	6.3643 ppb	14:23:35
3	Pb 220.353†	-56.8	6.4	1.5012 ug/L	1.5012 ppb	14:23:35
3	S 181.975 Axial†	33.9	-2.1	-5.1735 ug/L	-5.1735 ppb	14:23:35
3	Sb 206.836†	43.2	3.8	2.3277 ug/L	2.3277 ppb	14:23:35
3	Se 196.026†	-27.4	-1.3	-1.4394 ug/L	-1.4394 ppb	14:23:35
3	Si 251.611†	608.3	6.2	0.3355 ug/L	0.3355 ppb	14:23:35
3	Sn 189.927†	9.0	-1.9	-0.6348 ug/L	-0.6348 ppb	14:23:35
3	Ti 334.940†	-1469.2	-5.9	-0.0233 ug/L	-0.0233 ppb	14:23:15
3	Tl 190.801†	-35.1	-7.3	-4.1777 ug/L	-4.1777 ppb	14:23:35
3	U 409.014†	-2537.6	254.7	13.965 ug/L	13.965 ppb	14:23:15
3	V 292.402†	-1622.4	-2.4	0.0036 ug/L	0.0036 ppb	14:23:15
3	Zn 213.857†	709.4	42.6	0.7543 ug/L	0.7543 ppb	14:23:35
3	SiO2†	598.2	-4.2	-0.5221 ug/L	-0.5221 ppb	14:23:50

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	504124.9	101.71 %	0.347			0.34%
Sc Radial	3376.7	107 %	0.7			0.62%
Y 371.029	423122.7	102.23 %	0.331			0.32%
Y RADIAL	3618.6	105.4 %	0.70			0.66%
Ag 328.068†	-8.6	-0.0741 ug/L	0.56959	-0.0741 ppb	0.56959	768.47%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	1.7	2.1353 ug/L	2.66002	2.1353 ppb	2.66002	124.57%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.2	0.9447 ug/L	5.24082	0.9447 ppb	5.24082	554.75%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-40.3	-1.5591 ug/L	0.23416	-1.5591 ppb	0.23416	15.02%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.5	0.0506 ug/L	0.20044	0.0506 ppb	0.20044	396.46%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-252.0	-0.1555 ug/L	0.04780	-0.1555 ppb	0.04780	30.74%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.6	3.7311 ug/L	7.02171	3.7311 ppb	7.02171	188.20%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	3.1	0.0700 ug/L	0.05780	0.0700 ppb	0.05780	82.58%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	1.1	0.0417 ug/L	0.31650	0.0417 ppb	0.31650	758.37%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	12.6	0.2782 ug/L	0.26071	0.2782 ppb	0.26071	93.72%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-116.8	-0.6046 ug/L	0.27268	-0.6046 ppb	0.27268	45.10%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	1.2	20.067 ug/L	18.3553	20.067 ppb	18.3553	91.47%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	-185.0	-46.416 ug/L	12.8512	-46.416 ppb	12.8512	27.69%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	0.1	3.1955 ug/L	32.69441	3.1955 ppb	32.69441	>999.9%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	9.7	0.0208 ug/L	0.02396	0.0208 ppb	0.02396	115.23%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	8.2	1.1514 ug/L	0.96634	1.1514 ppb	0.96634	83.93%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	55.2	31.404 ug/L	1.2739	31.404 ppb	1.2739	4.06%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-9.3	-0.4507 ug/L	0.18812	-0.4507 ppb	0.18812	41.74%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	1.0	1.1720 ug/L	5.82902	1.1720 ppb	5.82902	497.35%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	-2.4	-0.5526 ug/L	1.99929	-0.5526 ppb	1.99929	361.77%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	0.4	0.8969 ug/L	17.72246	0.8969 ppb	17.72246	>999.9%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	0.9	0.5857 ug/L	1.61929	0.5857 ppb	1.61929	276.46%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	-0.1	-0.1049 ug/L	3.56981	-0.1049 ppb	3.56981	>999.9%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	-1.8	-0.1172 ug/L	0.87582	-0.1172 ppb	0.87582	747.37%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	4.2	1.4632 ug/L	2.37080	1.4632 ppb	2.37080	162.03%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-6.9	-0.0879 ug/L	0.15808	-0.0879 ppb	0.15808	179.88%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	-26.8	-0.0755 ug/L	0.31093	-0.0755 ppb	0.31093	411.75%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	-7.5	-4.2833 ug/L	1.23779	-4.2833 ppb	1.23779	28.90%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	182.5	10.004 ug/L	5.4954	10.004 ppb	5.4954	54.93%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	-9.4	-0.0919 ug/L	0.55107	-0.0919 ppb	0.55107	599.46%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	50.0	0.8872 ug/L	0.25974	0.8872 ppb	0.25974	29.28%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		29.7	3.5137 ug/L	3.93525	3.5137 ppb	3.93525	112.00%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/29/2010 15:02:50

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3392.5	3392.5	108 %		15:05:02
1	Y RADIAL	3934.6	3934.6	114.6 %		15:04:42
1	Al 396.153Radial†	3900.3	3702.2	4843.3 ug/L	4843.3 ppb	15:04:42
1	Ca 317.933Radial†	2211.8	2031.6	4795.2 ug/L	4795.2 ppb	15:05:02
1	Fe 238.204 Radial†	337.5	306.4	5025.3 ug/L	5025.3 ppb	15:05:02
1	K 766.490 Radial†	25439.6	20750.7	5198.7 ug/L	5198.7 ppb	15:04:42
1	Mg 279.077 IEC†	105.6	96.4	5090.5 ug/L	5090.5 ppb	15:05:02
1	Na 589.592 Radial†	18044.5	17329.6	9860.4 ug/L	9860.4 ppb	15:04:42
1	Sr 421.552†	43482.3	40263.3	512.52 ug/L	512.52 ppb	15:04:42
1	Sc 361.383	600295.2	600295.2	121.11 %		15:06:00
1	Y 371.029	467320.4	467320.4	112.91 %		15:06:00
1	Ag 328.068†	73724.4	60752.3	507.35 ug/L	507.35 ppb	15:06:00
1	As 188.979†	800.7	683.8	536.44 ug/L	536.44 ppb	15:06:20
1	B 249.677†	15110.2	12884.2	495.41 ug/L	495.41 ppb	15:06:00
1	Ba 233.527†	42997.5	35509.9	512.93 ug/L	512.93 ppb	15:06:00
1	Be 313.107†	978527.3	811841.0	501.70 ug/L	501.70 ppb	15:06:00
1	Cd 226.502†	27525.5	22930.1	515.25 ug/L	515.25 ppb	15:06:00
1	Co 228.616†	16916.3	14025.2	515.77 ug/L	515.77 ppb	15:06:00
1	Cr 267.716†	27718.2	22810.1	507.50 ug/L	507.50 ppb	15:06:00
1	Cu 324.752†	123979.1	97143.8	498.97 ug/L	498.97 ppb	15:06:00
1	Mn 257.610†	320185.7	263948.8	514.07 ug/L	514.07 ppb	15:06:00
1	Mo 202.031†	4536.5	3740.1	524.30 ug/L	524.30 ppb	15:06:20
1	Ni 231.604†	12788.3	10482.2	508.11 ug/L	508.11 ppb	15:06:00
1	P 214.914†	3448.6	2633.1	2578.9 ug/L	2578.9 ppb	15:06:20
1	Pb 220.353†	2647.4	2247.9	529.77 ug/L	529.77 ppb	15:06:20
1	S 181.975 Axial†	589.4	451.3	1108.4 ug/L	1108.4 ppb	15:06:20
1	Sb 206.836†	1096.8	867.1	547.38 ug/L	547.38 ppb	15:06:20
1	Se 196.026†	526.9	460.6	549.13 ug/L	549.13 ppb	15:06:20
1	Si 251.611†	55963.3	45618.2	2546.3 ug/L	2546.3 ppb	15:06:00
1	Sn 189.927†	1879.7	1541.4	531.84 ug/L	531.84 ppb	15:06:20
1	Ti 334.940†	229950.8	191298.7	508.84 ug/L	508.84 ppb	15:06:00
1	Tl 190.801†	1076.1	915.5	527.59 ug/L	527.59 ppb	15:06:20
1	U 409.014†	8532.0	9784.5	534.91 ug/L	534.91 ppb	15:06:00
1	V 292.402†	44231.2	38107.2	511.41 ug/L	511.41 ppb	15:06:00
1	Zn 213.857†	35840.8	28940.9	508.44 ug/L	508.44 ppb	15:06:00
1	SiO2†	56515.6	46073.8	5493.3 ug/L	5493.3 ppb	15:07:18
2	Sc Radial	3608.8	3608.8	115 %		15:05:27
2	Y RADIAL	3802.1	3802.1	110.8 %		15:05:07
2	Al 396.153Radial†	3814.3	3410.6	4460.8 ug/L	4460.8 ppb	15:05:07
2	Ca 317.933Radial†	2371.8	2048.1	4834.1 ug/L	4834.1 ppb	15:05:27
2	Fe 238.204 Radial†	360.3	307.4	5042.6 ug/L	5042.6 ppb	15:05:27
2	K 766.490 Radial†	24723.0	18713.5	4688.1 ug/L	4688.1 ppb	15:05:07
2	Mg 279.077 IEC†	113.2	97.2	5130.2 ug/L	5130.2 ppb	15:05:27
2	Na 589.592 Radial†	17492.7	15846.6	9016.6 ug/L	9016.6 ppb	15:05:07
2	Sr 421.552†	42267.3	36789.8	468.30 ug/L	468.30 ppb	15:05:07
2	Sc 361.383	624130.6	624130.6	125.92 %		15:06:26
2	Y 371.029	484959.3	484959.3	117.17 %		15:06:26
2	Ag 328.068†	76628.2	60733.6	507.20 ug/L	507.20 ppb	15:06:26
2	As 188.979†	803.3	660.5	518.41 ug/L	518.41 ppb	15:06:46
2	B 249.677†	15703.6	12878.9	495.21 ug/L	495.21 ppb	15:06:26
2	Ba 233.527†	44594.8	35422.5	511.67 ug/L	511.67 ppb	15:06:26
2	Be 313.107†	1015722.8	810524.3	500.89 ug/L	500.89 ppb	15:06:26
2	Cd 226.502†	28589.5	22907.1	514.74 ug/L	514.74 ppb	15:06:26
2	Co 228.616†	17545.4	13991.4	514.48 ug/L	514.48 ppb	15:06:26
2	Cr 267.716†	28768.8	22770.4	506.62 ug/L	506.62 ppb	15:06:26
2	Cu 324.752†	129375.2	97519.7	500.90 ug/L	500.90 ppb	15:06:26
2	Mn 257.610†	332316.2	263486.0	513.17 ug/L	513.17 ppb	15:06:26
2	Mo 202.031†	4520.0	3584.0	502.44 ug/L	502.44 ppb	15:06:46
2	Ni 231.604†	13341.8	10518.5	509.87 ug/L	509.87 ppb	15:06:26

2	P 214.914†	3420.0	2501.7	2444.6 ug/L	2444.6 ppb	15:06:46
2	Pb 220.353†	2633.4	2153.4	507.41 ug/L	507.41 ppb	15:06:46
2	S 181.975 Axial†	576.3	422.3	1037.2 ug/L	1037.2 ppb	15:06:46
2	Sb 206.836†	1100.8	835.7	527.40 ug/L	527.40 ppb	15:06:46
2	Se 196.026†	531.8	447.9	534.31 ug/L	534.31 ppb	15:06:46
2	Si 251.611†	58345.4	45745.3	2553.7 ug/L	2553.7 ppb	15:06:26
2	Sn 189.927†	1860.5	1466.9	506.22 ug/L	506.22 ppb	15:06:46
2	Ti 334.940†	238982.0	191219.8	508.63 ug/L	508.63 ppb	15:06:26
2	Tl 190.801†	1089.4	892.2	514.25 ug/L	514.25 ppb	15:06:46
2	U 409.014†	8929.4	9831.1	537.47 ug/L	537.47 ppb	15:06:26
2	V 292.402†	46001.6	38118.5	511.26 ug/L	511.26 ppb	15:06:26
2	Zn 213.857†	37218.6	28904.9	507.78 ug/L	507.78 ppb	15:06:26
2	SiO2†	56595.6	44355.3	5288.5 ug/L	5288.5 ppb	15:07:23
3	Sc Radial	3557.6	3557.6	113 %		15:05:53
3	Y RADIAL	3939.6	3939.6	114.8 %		15:05:32
3	Al 396.153Radial†	3976.9	3602.2	4712.2 ug/L	4712.2 ppb	15:05:32
3	Ca 317.933Radial†	2335.4	2045.7	4828.5 ug/L	4828.5 ppb	15:05:53
3	Fe 238.204 Radial†	353.3	305.8	5015.7 ug/L	5015.7 ppb	15:05:53
3	K 766.490 Radial†	25646.0	19839.5	4970.3 ug/L	4970.3 ppb	15:05:32
3	Mg 279.077 IEC†	113.0	98.4	5194.5 ug/L	5194.5 ppb	15:05:53
3	Na 589.592 Radial†	18214.4	16704.0	9504.4 ug/L	9504.4 ppb	15:05:32
3	Sr 421.552†	44194.9	39023.8	496.74 ug/L	496.74 ppb	15:05:32
3	Sc 361.383	631647.9	631647.9	127.44 %		15:06:52
3	Y 371.029	491013.4	491013.4	118.63 %		15:06:52
3	Ag 328.068†	77367.7	60589.7	505.99 ug/L	505.99 ppb	15:06:52
3	As 188.979†	832.8	676.1	530.48 ug/L	530.48 ppb	15:07:12
3	B 249.677†	16025.7	12983.3	499.25 ug/L	499.25 ppb	15:06:52
3	Ba 233.527†	44826.9	35183.2	508.22 ug/L	508.22 ppb	15:06:52
3	Be 313.107†	1021153.8	805186.1	497.59 ug/L	497.59 ppb	15:06:52
3	Cd 226.502†	28695.9	22720.4	510.54 ug/L	510.54 ppb	15:06:52
3	Co 228.616†	17656.2	13912.5	511.61 ug/L	511.61 ppb	15:06:52
3	Cr 267.716†	28831.8	22548.0	501.68 ug/L	501.68 ppb	15:06:52
3	Cu 324.752†	131047.6	97609.3	501.36 ug/L	501.36 ppb	15:06:52
3	Mn 257.610†	334267.0	261875.9	510.03 ug/L	510.03 ppb	15:06:52
3	Mo 202.031†	4673.6	3661.8	513.33 ug/L	513.33 ppb	15:07:12
3	Ni 231.604†	13367.2	10412.4	504.73 ug/L	504.73 ppb	15:06:52
3	P 214.914†	3540.2	2563.7	2507.6 ug/L	2507.6 ppb	15:07:12
3	Pb 220.353†	2729.1	2203.6	519.30 ug/L	519.30 ppb	15:07:12
3	S 181.975 Axial†	595.9	432.2	1061.6 ug/L	1061.6 ppb	15:07:12
3	Sb 206.836†	1134.1	851.4	537.39 ug/L	537.39 ppb	15:07:12
3	Se 196.026†	559.2	464.3	553.32 ug/L	553.32 ppb	15:07:12
3	Si 251.611†	58935.4	45656.8	2548.6 ug/L	2548.6 ppb	15:06:52
3	Sn 189.927†	1931.5	1505.0	519.34 ug/L	519.34 ppb	15:07:12
3	Ti 334.940†	241108.3	190629.6	507.06 ug/L	507.06 ppb	15:06:52
3	Tl 190.801†	1114.2	901.4	519.47 ug/L	519.47 ppb	15:07:12
3	U 409.014†	9062.5	9851.1	538.58 ug/L	538.58 ppb	15:06:52
3	V 292.402†	46275.2	37898.3	508.51 ug/L	508.51 ppb	15:06:52
3	Zn 213.857†	37483.0	28760.6	505.26 ug/L	505.26 ppb	15:06:52
3	SiO2†	62583.7	48519.2	5786.0 ug/L	5786.0 ppb	15:07:28

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	618691.2	124.82 %	3.302			2.65%
Sc Radial	3519.6	112 %	3.6			3.21%
Y 371.029	481097.7	116.23 %	2.974			2.56%
Y RADIAL	3892.1	113.4 %	2.27			2.00%
Ag 328.068†	60691.9	506.85 ug/L	0.750	506.85 ppb	0.750	0.15%
QC value within limits for Ag 328.068 Recovery = 101.37%						
Al 396.153Radial†	3571.7	4672.1 ug/L	194.36	4672.1 ppb	194.36	4.16%
QC value within limits for Al 396.153Radial Recovery = 93.44%						
As 188.979†	673.5	528.44 ug/L	9.185	528.44 ppb	9.185	1.74%
QC value within limits for As 188.979 Recovery = 105.69%						
B 249.677†	12915.4	496.63 ug/L	2.279	496.63 ppb	2.279	0.46%
QC value within limits for B 249.677 Recovery = 99.33%						
Ba 233.527†	35371.8	510.94 ug/L	2.441	510.94 ppb	2.441	0.48%
QC value within limits for Ba 233.527 Recovery = 102.19%						
Be 313.107†	809183.8	500.06 ug/L	2.175	500.06 ppb	2.175	0.43%
QC value within limits for Be 313.107 Recovery = 100.01%						
Ca 317.933Radial†	2041.8	4819.3 ug/L	21.06	4819.3 ppb	21.06	0.44%

QC value within limits for Ca 317.933 Radial Recovery = 96.39%

Cd	226.502†	22852.5	513.51 ug/L	2.585	513.51 ppb	2.585	0.50%
QC value within limits for Cd 226.502 Recovery = 102.70%							
Co	228.616†	13976.4	513.95 ug/L	2.132	513.95 ppb	2.132	0.41%
QC value within limits for Co 228.616 Recovery = 102.79%							
Cr	267.716†	22709.5	505.27 ug/L	3.141	505.27 ppb	3.141	0.62%
QC value within limits for Cr 267.716 Recovery = 101.05%							
Cu	324.752†	97424.3	500.41 ug/L	1.268	500.41 ppb	1.268	0.25%
QC value within limits for Cu 324.752 Recovery = 100.08%							
Fe	238.204 Radial†	306.5	5027.9 ug/L	13.63	5027.9 ppb	13.63	0.27%
QC value within limits for Fe 238.204 Radial Recovery = 100.56%							
K	766.490 Radial†	19767.9	4952.4 ug/L	255.80	4952.4 ppb	255.80	5.17%
QC value within limits for K 766.490 Radial Recovery = 99.05%							
Mg	279.077 IEC†	97.3	5138.4 ug/L	52.53	5138.4 ppb	52.53	1.02%
QC value within limits for Mg 279.077 IEC Recovery = 102.77%							
Mn	257.610†	263103.6	512.42 ug/L	2.121	512.42 ppb	2.121	0.41%
QC value within limits for Mn 257.610 Recovery = 102.48%							
Mo	202.031†	3661.9	513.36 ug/L	10.932	513.36 ppb	10.932	2.13%
QC value within limits for Mo 202.031 Recovery = 102.67%							
Na	589.592 Radial†	16626.7	9460.5 ug/L	423.60	9460.5 ppb	423.60	4.48%
QC value within limits for Na 589.592 Radial Recovery = 94.60%							
Ni	231.604†	10471.0	507.57 ug/L	2.616	507.57 ppb	2.616	0.52%
QC value within limits for Ni 231.604 Recovery = 101.51%							
P	214.914†	2566.2	2510.4 ug/L	67.19	2510.4 ppb	67.19	2.68%
QC value within limits for P 214.914 Recovery = 100.41%							
Pb	220.353†	2201.6	518.83 ug/L	11.190	518.83 ppb	11.190	2.16%
QC value within limits for Pb 220.353 Recovery = 103.77%							
S	181.975 Axial†	435.3	1069.1 ug/L	36.17	1069.1 ppb	36.17	3.38%
QC value within limits for S 181.975 Axial Recovery = 106.91%							
Sb	206.836†	851.4	537.39 ug/L	9.988	537.39 ppb	9.988	1.86%
QC value within limits for Sb 206.836 Recovery = 107.48%							
Se	196.026†	457.6	545.59 ug/L	9.991	545.59 ppb	9.991	1.83%
QC value within limits for Se 196.026 Recovery = 109.12%							
Si	251.611†	45673.4	2549.5 ug/L	3.78	2549.5 ppb	3.78	0.15%
QC value within limits for Si 251.611 Recovery = 101.98%							
Sn	189.927†	1504.4	519.13 ug/L	12.813	519.13 ppb	12.813	2.47%
QC value within limits for Sn 189.927 Recovery = 103.83%							
Sr	421.552†	38692.3	492.52 ug/L	22.409	492.52 ppb	22.409	4.55%
QC value within limits for Sr 421.552 Recovery = 98.50%							
Ti	334.940†	191049.4	508.18 ug/L	0.975	508.18 ppb	0.975	0.19%
QC value within limits for Ti 334.940 Recovery = 101.64%							
Tl	190.801†	903.0	520.44 ug/L	6.723	520.44 ppb	6.723	1.29%
QC value within limits for Tl 190.801 Recovery = 104.09%							
U	409.014†	9822.2	536.99 ug/L	1.882	536.99 ppb	1.882	0.35%
QC value within limits for U 409.014 Recovery = 107.40%							
V	292.402†	38041.3	510.39 ug/L	1.634	510.39 ppb	1.634	0.32%
QC value within limits for V 292.402 Recovery = 102.08%							
Zn	213.857†	28868.8	507.16 ug/L	1.677	507.16 ppb	1.677	0.33%
QC value within limits for Zn 213.857 Recovery = 101.43%							
SiO2†		46316.1	5522.6 ug/L	250.01	5522.6 ppb	250.01	4.53%
QC value within limits for SiO2 Recovery = 103.27%							

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/29/2010 15:09:38

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	3614.5	3614.5	115 %		15:11:50
1	Y RADIAL	3803.5	3803.5	110.8 %		15:11:30
1	Al 396.153Radial†	-98.1	2.5	3.2272 ug/L	3.2272 ppb	15:11:50
1	Ca 317.933Radial†	17.5	-2.9	-6.8970 ug/L	-6.8970 ppb	15:11:50
1	Fe 238.204 Radial†	9.4	1.8	29.101 ug/L	29.101 ppb	15:11:50
1	K 766.490 Radial†	2713.5	-464.3	-116.48 ug/L	-116.48 ppb	15:11:30
1	Mg 279.077 IEC†	3.0	1.1	58.036 ug/L	58.036 ppb	15:11:50
1	Na 589.592 Radial†	-575.1	107.3	61.068 ug/L	61.068 ppb	15:11:30
1	Sr 421.552†	46.4	8.1	0.1030 ug/L	0.1030 ppb	15:11:30
1	Sc 361.383	511162.9	511162.9	103.13 %		15:12:47
1	Y 371.029	428244.2	428244.2	103.47 %		15:12:47
1	Ag 328.068†	67.3	-55.2	-0.4557 ug/L	-0.4557 ppb	15:12:47
1	As 188.979†	-25.0	-1.7	-1.2865 ug/L	-1.2865 ppb	15:13:07
1	B 249.677†	-524.6	-100.7	-3.8973 ug/L	-3.8973 ppb	15:13:07
1	Ba 233.527†	-5.3	2.6	0.0375 ug/L	0.0375 ppb	15:13:07
1	Be 313.107†	-4279.2	-258.7	-0.1592 ug/L	-0.1592 ppb	15:12:47
1	Cd 226.502†	-200.0	8.9	0.1988 ug/L	0.1988 ppb	15:13:07
1	Co 228.616†	-47.8	11.4	0.4187 ug/L	0.4187 ppb	15:13:07
1	Cr 267.716†	74.9	-3.7	-0.0812 ug/L	-0.0812 ppb	15:13:07
1	Cu 324.752†	5301.7	-82.5	-0.4255 ug/L	-0.4255 ppb	15:12:47
1	Mn 257.610†	442.7	7.2	0.0145 ug/L	0.0145 ppb	15:13:07
1	Mo 202.031†	6.3	0.6	0.0815 ug/L	0.0815 ppb	15:13:07
1	Ni 231.604†	79.6	0.3	0.0151 ug/L	0.0151 ppb	15:13:07
1	P 214.914†	207.7	-12.9	-13.015 ug/L	-13.015 ppb	15:13:07
1	Pb 220.353†	-79.1	-14.6	-3.4378 ug/L	-3.4378 ppb	15:13:07
1	S 181.975 Axial†	38.1	1.6	3.9738 ug/L	3.9738 ppb	15:13:07
1	Sb 206.836†	33.3	-6.2	-3.7694 ug/L	-3.7694 ppb	15:13:07
1	Se 196.026†	-31.6	-5.2	-5.9141 ug/L	-5.9141 ppb	15:13:07
1	Si 251.611†	551.2	-55.0	-3.0810 ug/L	-3.0810 ppb	15:13:07
1	Sn 189.927†	17.1	5.9	2.0378 ug/L	2.0378 ppb	15:13:07
1	Ti 334.940†	-1423.6	52.5	0.1312 ug/L	0.1312 ppb	15:12:47
1	Tl 190.801†	-36.8	-8.6	-4.9171 ug/L	-4.9171 ppb	15:13:07
1	U 409.014†	-2706.1	115.8	6.3498 ug/L	6.3498 ppb	15:12:47
1	V 292.402†	-1657.2	-20.5	-0.2609 ug/L	-0.2609 ppb	15:12:47
1	Zn 213.857†	705.0	31.5	0.5547 ug/L	0.5547 ppb	15:13:07
1	SiO2†	571.3	-36.1	-4.3135 ug/L	-4.3135 ppb	15:14:03
2	Sc Radial	3527.1	3527.1	112 %		15:12:15
2	Y RADIAL	3853.3	3853.3	112.3 %		15:11:55
2	Al 396.153Radial†	-95.5	2.6	3.3968 ug/L	3.3968 ppb	15:12:15
2	Ca 317.933Radial†	17.1	-2.8	-6.7157 ug/L	-6.7157 ppb	15:12:15
2	Fe 238.204 Radial†	6.8	-0.4	-5.8904 ug/L	-5.8904 ppb	15:12:15
2	K 766.490 Radial†	2787.5	-339.8	-85.248 ug/L	-85.248 ppb	15:11:55
2	Mg 279.077 IEC†	3.3	1.5	76.933 ug/L	76.933 ppb	15:12:15
2	Na 589.592 Radial†	-604.2	69.0	39.242 ug/L	39.242 ppb	15:11:55
2	Sr 421.552†	48.4	10.9	0.1386 ug/L	0.1386 ppb	15:11:55
2	Sc 361.383	501994.8	501994.8	101.28 %		15:13:12
2	Y 371.029	420520.9	420520.9	101.60 %		15:13:12
2	Ag 328.068†	86.3	-35.2	-0.3041 ug/L	-0.3041 ppb	15:13:12
2	As 188.979†	-25.3	-2.3	-1.8086 ug/L	-1.8086 ppb	15:13:32
2	B 249.677†	-548.4	-133.5	-5.1575 ug/L	-5.1575 ppb	15:13:32
2	Ba 233.527†	-1.4	6.3	0.0905 ug/L	0.0905 ppb	15:13:32
2	Be 313.107†	-4104.0	-161.5	-0.0995 ug/L	-0.0995 ppb	15:13:12
2	Cd 226.502†	-193.3	11.9	0.2705 ug/L	0.2705 ppb	15:13:32
2	Co 228.616†	-50.1	8.2	0.3053 ug/L	0.3053 ppb	15:13:32
2	Cr 267.716†	86.7	9.4	0.2027 ug/L	0.2027 ppb	15:13:32
2	Cu 324.752†	5227.4	-61.9	-0.3247 ug/L	-0.3247 ppb	15:13:12
2	Mn 257.610†	442.6	15.0	0.0255 ug/L	0.0255 ppb	15:13:32
2	Mo 202.031†	12.5	6.8	0.9466 ug/L	0.9466 ppb	15:13:32
2	Ni 231.604†	72.6	-5.1	-0.2487 ug/L	-0.2487 ppb	15:13:32

2	P 214.914†	225.1	7.9	8.1172 ug/L	8.1172 ppb	15:13:32
2	Pb 220.353†	-51.4	11.3	2.6504 ug/L	2.6504 ppb	15:13:32
2	S 181.975 Axial†	44.8	8.9	21.863 ug/L	21.863 ppb	15:13:32
2	Sb 206.836†	39.0	-0.0	0.0121 ug/L	0.0121 ppb	15:13:32
2	Se 196.026†	-32.2	-6.3	-7.2528 ug/L	-7.2528 ppb	15:13:32
2	Si 251.611†	577.8	-19.0	-1.0774 ug/L	-1.0774 ppb	15:13:32
2	Sn 189.927†	11.8	0.9	0.3243 ug/L	0.3243 ppb	15:13:32
2	Ti 334.940†	-1443.3	7.8	0.0083 ug/L	0.0083 ppb	15:13:12
2	Tl 190.801†	-30.7	-3.2	-1.8491 ug/L	-1.8491 ppb	15:13:32
2	U 409.014†	-2557.7	214.5	11.762 ug/L	11.762 ppb	15:13:12
2	V 292.402†	-1611.0	-4.3	-0.0183 ug/L	-0.0183 ppb	15:13:12
2	Zn 213.857†	695.6	34.7	0.6175 ug/L	0.6175 ppb	15:13:32
2	SiO2†	548.8	-48.1	-5.7803 ug/L	-5.7803 ppb	15:14:08
3	Sc Radial	3562.9	3562.9	113 %		15:12:41
3	Y RADIAL	3854.0	3854.0	112.3 %		15:12:21
3	Al 396.153Radial†	-82.7	14.8	19.389 ug/L	19.389 ppb	15:12:41
3	Ca 317.933Radial†	24.9	3.8	9.0161 ug/L	9.0161 ppb	15:12:41
3	Fe 238.204 Radial†	7.6	0.3	4.3615 ug/L	4.3615 ppb	15:12:41
3	K 766.490 Radial†	2818.2	-337.7	-84.755 ug/L	-84.755 ppb	15:12:21
3	Mg 279.077 IEC†	-0.3	-1.7	-89.612 ug/L	-89.612 ppb	15:12:41
3	Na 589.592 Radial†	-520.7	148.0	84.212 ug/L	84.212 ppb	15:12:21
3	Sr 421.552†	23.1	-11.9	-0.1516 ug/L	-0.1516 ppb	15:12:21
3	Sc 361.383	505118.2	505118.2	101.91 %		15:13:37
3	Y 371.029	423062.7	423062.7	102.21 %		15:13:37
3	Ag 328.068†	157.0	33.6	0.2762 ug/L	0.2762 ppb	15:13:37
3	As 188.979†	-21.8	1.2	0.9600 ug/L	0.9600 ppb	15:13:57
3	B 249.677†	-521.7	-104.0	-4.0167 ug/L	-4.0167 ppb	15:13:57
3	Ba 233.527†	-7.4	0.5	0.0071 ug/L	0.0071 ppb	15:13:57
3	Be 313.107†	-4221.4	-251.7	-0.1553 ug/L	-0.1553 ppb	15:13:37
3	Cd 226.502†	-206.2	0.5	0.0121 ug/L	0.0121 ppb	15:13:57
3	Co 228.616†	-63.5	-4.5	-0.1644 ug/L	-0.1644 ppb	15:13:57
3	Cr 267.716†	87.3	9.4	0.2074 ug/L	0.2074 ppb	15:13:57
3	Cu 324.752†	5227.3	-93.9	-0.4849 ug/L	-0.4849 ppb	15:13:37
3	Mn 257.610†	430.9	0.8	0.0056 ug/L	0.0056 ppb	15:13:57
3	Mo 202.031†	14.7	8.9	1.2434 ug/L	1.2434 ppb	15:13:57
3	Ni 231.604†	73.2	-5.0	-0.2440 ug/L	-0.2440 ppb	15:13:57
3	P 214.914†	221.5	3.0	3.1433 ug/L	3.1433 ppb	15:13:57
3	Pb 220.353†	-73.3	-9.9	-2.3082 ug/L	-2.3082 ppb	15:13:57
3	S 181.975 Axial†	36.7	0.7	1.7067 ug/L	1.7067 ppb	15:13:57
3	Sb 206.836†	26.1	-12.9	-7.8701 ug/L	-7.8701 ppb	15:13:57
3	Se 196.026†	-30.0	-4.0	-4.5500 ug/L	-4.5500 ppb	15:13:57
3	Si 251.611†	563.8	-36.3	-2.0466 ug/L	-2.0466 ppb	15:13:57
3	Sn 189.927†	2.5	-8.2	-2.8028 ug/L	-2.8028 ppb	15:13:57
3	Ti 334.940†	-1475.4	-14.9	-0.0334 ug/L	-0.0334 ppb	15:13:37
3	Tl 190.801†	-29.9	-2.3	-1.3028 ug/L	-1.3028 ppb	15:13:57
3	U 409.014†	-2696.6	93.8	5.1414 ug/L	5.1414 ppb	15:13:37
3	V 292.402†	-1615.2	1.5	0.0445 ug/L	0.0445 ppb	15:13:37
3	Zn 213.857†	703.4	38.1	0.6771 ug/L	0.6771 ppb	15:13:57
3	SiO2†	580.3	-20.6	-2.4963 ug/L	-2.4963 ppb	15:14:13

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	506092.0	102.11 %	0.940			0.92%
Sc Radial	3568.1	113 %	1.4			1.23%
Y 371.029	423942.6	102.43 %	0.951			0.93%
Y RADIAL	3836.9	111.8 %	0.84			0.76%
Ag 328.068†	-19.0	-0.1612 ug/L	0.38632	-0.1612 ppb	0.38632	239.65%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	6.6	8.6708 ug/L	9.28219	8.6708 ppb	9.28219	107.05%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.9	-0.7117 ug/L	1.47105	-0.7117 ppb	1.47105	206.70%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-112.7	-4.3572 ug/L	0.69567	-4.3572 ppb	0.69567	15.97%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.1	0.0450 ug/L	0.04220	0.0450 ppb	0.04220	93.68%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-223.9	-0.1380 ug/L	0.03336	-0.1380 ppb	0.03336	24.18%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-0.6	-1.5322 ug/L	9.13557	-1.5322 ppb	9.13557	596.25%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd	226.502†	7.1	0.1605 ug/L	0.13342	0.1605 ppb	0.13342	83.15%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co	228.616†	5.0	0.1865 ug/L	0.30914	0.1865 ppb	0.30914	165.72%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	5.0	0.1096 ug/L	0.16528	0.1096 ppb	0.16528	150.78%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-79.4	-0.4117 ug/L	0.08101	-0.4117 ppb	0.08101	19.68%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	0.6	9.1906 ug/L	17.98844	9.1906 ppb	17.98844	195.73%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	-380.6	-95.493 ug/L	18.1733	-95.493 ppb	18.1733	19.03%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	0.3	15.119 ug/L	91.1906	15.119 ppb	91.1906	603.15%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	7.7	0.0152 ug/L	0.00996	0.0152 ppb	0.00996	65.59%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	5.4	0.7572 ug/L	0.60367	0.7572 ppb	0.60367	79.72%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	108.1	61.507 ug/L	22.4880	61.507 ppb	22.4880	36.56%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-3.3	-0.1592 ug/L	0.15099	-0.1592 ppb	0.15099	94.85%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-0.6	-0.5847 ug/L	11.04822	-0.5847 ppb	11.04822	>999.9%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-4.4	-1.0319 ug/L	3.23860	-1.0319 ppb	3.23860	313.86%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	3.7	9.1812 ug/L	11.04122	9.1812 ppb	11.04122	120.26%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	-6.4	-3.8758 ug/L	3.94217	-3.8758 ppb	3.94217	101.71%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-5.1	-5.9057 ug/L	1.35141	-5.9057 ppb	1.35141	22.88%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	-36.8	-2.0683 ug/L	1.00195	-2.0683 ppb	1.00195	48.44%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	-0.4	-0.1469 ug/L	2.45448	-0.1469 ppb	2.45448	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	2.4	0.0300 ug/L	0.15830	0.0300 ppb	0.15830	527.69%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	15.1	0.0354 ug/L	0.08557	0.0354 ppb	0.08557	241.70%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	-4.7	-2.6897 ug/L	1.94823	-2.6897 ppb	1.94823	72.43%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	141.4	7.7510 ug/L	3.52564	7.7510 ppb	3.52564	45.49%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-7.8	-0.0782 ug/L	0.16124	-0.0782 ppb	0.16124	206.05%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	34.8	0.6164 ug/L	0.06124	0.6164 ppb	0.06124	9.93%
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†		-34.9	-4.1967 ug/L	1.64510	-4.1967 ppb	1.64510	39.20%
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

=====
Analysis Begun

Start Time: 3/29/2010 16:17:40

Plasma On Time: 3/29/2010 14:10:41

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601 Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\032610.sif

Batch ID:

Results Data Set: 032910A

Results Library: C:\pe\Optima3\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/29/2010 16:17:41

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:
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Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3968.2	3968.2	126 %		16:19:33
1	Y RADIAL	4251.4	4251.4	123.9 %		16:19:33
1	Al 396.153Radial†	4325.2	3514.5	4597.5 ug/L	4597.5 ppb	16:19:33
1	Ca 317.933Radial†	2629.1	2064.8	4873.6 ug/L	4873.6 ppb	16:19:53
1	Fe 238.204 Radial†	410.4	318.8	5228.3 ug/L	5228.3 ppb	16:19:53
1	K 766.490 Radial†	27903.8	19282.9	4830.6 ug/L	4830.6 ppb	16:19:33
1	Mg 279.077 IEC†	125.2	97.7	5159.6 ug/L	5159.6 ppb	16:19:53
1	Na 589.592 Radial†	20775.2	17067.1	9711.1 ug/L	9711.1 ppb	16:19:33
1	Sr 421.552†	48727.9	38573.5	491.00 ug/L	491.00 ppb	16:19:33
1	Sc 361.383	688133.9	688133.9	138.83 %		16:20:50
1	Y 371.029	462848.3	462848.3	111.83 %		16:20:55
1	Ag 328.068†	85901.3	61752.8	515.75 ug/L	515.75 ppb	16:20:55
1	As 188.979†	903.9	673.7	528.65 ug/L	528.65 ppb	16:21:15
1	B 249.677†	18154.5	13484.3	518.54 ug/L	518.54 ppb	16:20:55
1	Ba 233.527†	49204.5	35448.9	512.07 ug/L	512.07 ppb	16:20:55
1	Be 313.107†	1147815.1	830643.3	513.28 ug/L	513.28 ppb	16:20:50
1	Cd 226.502†	32064.6	23298.5	523.51 ug/L	523.51 ppb	16:20:55
1	Co 228.616†	19641.2	14205.0	522.34 ug/L	522.34 ppb	16:20:55
1	Cr 267.716†	31836.4	22855.0	508.53 ug/L	508.53 ppb	16:20:55
1	Cu 324.752†	145708.0	99727.8	512.26 ug/L	512.26 ppb	16:20:55
1	Mn 257.610†	363244.5	261217.1	508.77 ug/L	508.77 ppb	16:20:55
1	Mo 202.031†	4981.9	3582.8	502.29 ug/L	502.29 ppb	16:21:15
1	Ni 231.604†	14826.4	10602.4	513.94 ug/L	513.94 ppb	16:20:55
1	P 214.914†	3835.4	2548.3	2489.6 ug/L	2489.6 ppb	16:21:15
1	Pb 220.353†	2923.4	2167.7	510.79 ug/L	510.79 ppb	16:21:15
1	S 181.975 Axial†	643.0	427.8	1050.8 ug/L	1050.8 ppb	16:21:15
1	Sb 206.836†	1221.6	841.4	530.92 ug/L	530.92 ppb	16:21:15
1	Se 196.026†	599.4	457.2	545.67 ug/L	545.67 ppb	16:21:15
1	Si 251.611†	66288.2	47156.8	2632.7 ug/L	2632.7 ppb	16:20:55
1	Sn 189.927†	2063.5	1475.7	509.28 ug/L	509.28 ppb	16:21:15
1	Ti 334.940†	261381.9	189702.0	504.60 ug/L	504.60 ppb	16:20:55
1	Tl 190.801†	1191.5	885.3	510.17 ug/L	510.17 ppb	16:21:15
1	U 409.014†	9545.0	9614.9	525.59 ug/L	525.59 ppb	16:20:55
1	V 292.402†	51309.3	38543.6	516.83 ug/L	516.83 ppb	16:20:55
1	Zn 213.857†	41847.5	29490.0	518.09 ug/L	518.09 ppb	16:20:55
1	SiO2†	64884.2	46145.0	5502.5 ug/L	5502.5 ppb	16:22:22
2	Sc Radial	4132.4	4132.4	131 %		16:19:58
2	Y RADIAL	4436.0	4436.0	129.2 %		16:19:58
2	Al 396.153Radial†	4480.2	3496.2	4573.7 ug/L	4573.7 ppb	16:19:58
2	Ca 317.933Radial†	2631.9	1984.2	4683.3 ug/L	4683.3 ppb	16:20:18
2	Fe 238.204 Radial†	407.4	303.5	4978.6 ug/L	4978.6 ppb	16:20:18
2	K 766.490 Radial†	28512.9	18867.6	4726.6 ug/L	4726.6 ppb	16:19:58
2	Mg 279.077 IEC†	127.0	95.2	5024.3 ug/L	5024.3 ppb	16:20:18
2	Na 589.592 Radial†	21237.1	16764.3	9538.8 ug/L	9538.8 ppb	16:19:58
2	Sr 421.552†	50295.5	38231.7	486.65 ug/L	486.65 ppb	16:19:58
2	Sc 361.383	695416.4	695416.4	140.30 %		16:21:21
2	Y 371.029	463805.6	463805.6	112.06 %		16:21:26

2	Ag 328.068†	85856.5	61073.0	510.01 ug/L	510.01 ppb	16:21:26
2	As 188.979†	893.1	659.2	517.27 ug/L	517.27 ppb	16:21:46
2	B 249.677†	18168.1	13357.1	513.68 ug/L	513.68 ppb	16:21:26
2	Ba 233.527†	49399.1	35216.5	508.71 ug/L	508.71 ppb	16:21:26
2	Be 313.107†	1149884.7	823460.4	508.84 ug/L	508.84 ppb	16:21:21
2	Cd 226.502†	32170.8	23132.3	519.80 ug/L	519.80 ppb	16:21:26
2	Co 228.616†	19678.7	14083.6	517.87 ug/L	517.87 ppb	16:21:26
2	Cr 267.716†	31897.5	22658.4	504.13 ug/L	504.13 ppb	16:21:26
2	Cu 324.752†	145543.5	98511.5	506.00 ug/L	506.00 ppb	16:21:26
2	Mn 257.610†	364091.1	259080.5	504.59 ug/L	504.59 ppb	16:21:26
2	Mo 202.031†	4966.6	3534.3	495.48 ug/L	495.48 ppb	16:21:46
2	Ni 231.604†	14874.6	10524.9	510.18 ug/L	510.18 ppb	16:21:26
2	P 214.914†	3849.4	2529.3	2471.7 ug/L	2471.7 ppb	16:21:46
2	Pb 220.353†	2912.8	2138.2	503.85 ug/L	503.85 ppb	16:21:46
2	S 181.975 Axial†	647.9	426.5	1047.4 ug/L	1047.4 ppb	16:21:46
2	Sb 206.836†	1219.9	831.0	524.33 ug/L	524.33 ppb	16:21:46
2	Se 196.026†	593.7	448.6	535.04 ug/L	535.04 ppb	16:21:46
2	Si 251.611†	66161.0	46566.1	2599.7 ug/L	2599.7 ppb	16:21:26
2	Sn 189.927†	2058.2	1456.3	502.55 ug/L	502.55 ppb	16:21:46
2	Ti 334.940†	261844.9	188060.4	500.22 ug/L	500.22 ppb	16:21:26
2	Tl 190.801†	1193.5	877.7	505.81 ug/L	505.81 ppb	16:21:46
2	U 409.014†	9774.2	9706.3	530.64 ug/L	530.64 ppb	16:21:26
2	V 292.402†	51423.2	38237.8	512.74 ug/L	512.74 ppb	16:21:26
2	Zn 213.857†	41945.4	29244.0	513.80 ug/L	513.80 ppb	16:21:26
2	SiO2†	65995.9	46448.0	5538.9 ug/L	5538.9 ppb	16:22:27
3	Sc Radial	3768.7	3768.7	120 %		16:20:23
3	Y RADIAL	4018.1	4018.1	117.1 %		16:20:23
3	Al 396.153Radial†	4077.7	3489.4	4564.7 ug/L	4564.7 ppb	16:20:23
3	Ca 317.933Radial†	2586.2	2139.3	5049.4 ug/L	5049.4 ppb	16:20:43
3	Fe 238.204 Radial†	403.7	330.3	5417.5 ug/L	5417.5 ppb	16:20:43
3	K 766.490 Radial†	26562.9	19334.8	4843.7 ug/L	4843.7 ppb	16:20:23
3	Mg 279.077 IEC†	119.9	98.6	5203.8 ug/L	5203.8 ppb	16:20:43
3	Na 589.592 Radial†	19388.1	16781.5	9548.6 ug/L	9548.6 ppb	16:20:23
3	Sr 421.552†	45726.0	38113.4	485.14 ug/L	485.14 ppb	16:20:23
3	Sc 361.383	685091.1	685091.1	138.22 %		16:21:52
3	Y 371.029	461440.9	461440.9	111.49 %		16:21:57
3	Ag 328.068†	85336.3	61618.9	514.70 ug/L	514.70 ppb	16:21:57
3	As 188.979†	910.7	681.5	534.81 ug/L	534.81 ppb	16:22:17
3	B 249.677†	18055.4	13470.7	517.98 ug/L	517.98 ppb	16:21:57
3	Ba 233.527†	49316.5	35687.4	515.52 ug/L	515.52 ppb	16:21:57
3	Be 313.107†	1139525.0	828317.5	511.85 ug/L	511.85 ppb	16:21:52
3	Cd 226.502†	32150.6	23463.2	527.20 ug/L	527.20 ppb	16:21:57
3	Co 228.616†	19682.3	14297.6	525.73 ug/L	525.73 ppb	16:21:57
3	Cr 267.716†	31868.5	22980.0	511.33 ug/L	511.33 ppb	16:21:57
3	Cu 324.752†	144471.4	99299.3	510.07 ug/L	510.07 ppb	16:21:57
3	Mn 257.610†	363430.1	262513.4	511.31 ug/L	511.31 ppb	16:21:57
3	Mo 202.031†	4911.3	3547.7	497.38 ug/L	497.38 ppb	16:22:17
3	Ni 231.604†	14917.8	10715.9	519.44 ug/L	519.44 ppb	16:21:57
3	P 214.914†	3805.3	2538.7	2480.1 ug/L	2480.1 ppb	16:22:17
3	Pb 220.353†	2894.3	2156.0	508.01 ug/L	508.01 ppb	16:22:17
3	S 181.975 Axial†	643.0	429.9	1055.8 ug/L	1055.8 ppb	16:22:17
3	Sb 206.836†	1209.1	836.3	527.69 ug/L	527.69 ppb	16:22:17
3	Se 196.026†	596.4	457.0	545.85 ug/L	545.85 ppb	16:22:17
3	Si 251.611†	66000.0	47160.4	2633.0 ug/L	2633.0 ppb	16:21:57
3	Sn 189.927†	2050.6	1472.9	508.40 ug/L	508.40 ppb	16:22:17
3	Ti 334.940†	260311.3	189763.6	504.78 ug/L	504.78 ppb	16:21:57
3	Tl 190.801†	1178.0	879.3	506.74 ug/L	506.74 ppb	16:22:17
3	U 409.014†	9484.7	9601.8	524.84 ug/L	524.84 ppb	16:21:57
3	V 292.402†	51235.8	38654.7	518.20 ug/L	518.20 ppb	16:21:57
3	Zn 213.857†	41941.8	29692.0	521.61 ug/L	521.61 ppb	16:21:57
3	SiO2†	65736.4	46969.1	5601.1 ug/L	5601.1 ppb	16:22:32

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	689547.2	139.12 %		1.070			0.77%
Sc Radial	3956.4	126 %		5.8			4.60%
Y 371.029	462698.3	111.79 %		0.287			0.26%
Y RADIAL	4235.1	123.4 %		6.10			4.94%
Ag 328.068†	61481.6	513.49 ug/L		3.055	513.49 ppb	3.055	0.60%

QC value within limits for Ag 328.068 Recovery = 102.70%

Al 396.153Radial† 3500.0 4578.6 ug/L 16.92 4578.6 ppb 16.92 0.37%

QC value within limits for Al 396.153Radial Recovery = 91.57%

As 188.979† 671.4 526.91 ug/L 8.896 526.91 ppb 8.896 1.69%

QC value within limits for As 188.979 Recovery = 105.38%

B 249.677† 13437.4 516.74 ug/L 2.658 516.74 ppb 2.658 0.51%

QC value within limits for B 249.677 Recovery = 103.35%

Ba 233.527† 35450.9 512.10 ug/L 3.405 512.10 ppb 3.405 0.66%

QC value within limits for Ba 233.527 Recovery = 102.42%

Be 313.107† 827473.7 511.32 ug/L 2.265 511.32 ppb 2.265 0.44%

QC value within limits for Be 313.107 Recovery = 102.26%

Ca 317.933Radial† 2062.8 4868.7 ug/L 183.10 4868.7 ppb 183.10 3.76%

QC value within limits for Ca 317.933Radial Recovery = 97.37%

Cd 226.502† 23298.0 523.51 ug/L 3.699 523.51 ppb 3.699 0.71%

QC value within limits for Cd 226.502 Recovery = 104.70%

Co 228.616† 14195.4 521.98 ug/L 3.941 521.98 ppb 3.941 0.75%

QC value within limits for Co 228.616 Recovery = 104.40%

Cr 267.716† 22831.2 508.00 ug/L 3.629 508.00 ppb 3.629 0.71%

QC value within limits for Cr 267.716 Recovery = 101.60%

Cu 324.752† 99179.5 509.44 ug/L 3.179 509.44 ppb 3.179 0.62%

QC value within limits for Cu 324.752 Recovery = 101.89%

Fe 238.204 Radial† 317.5 5208.2 ug/L 220.14 5208.2 ppb 220.14 4.23%

QC value within limits for Fe 238.204 Radial Recovery = 104.16%

K 766.490 Radial† 19161.8 4800.3 ug/L 64.16 4800.3 ppb 64.16 1.34%

QC value within limits for K 766.490 Radial Recovery = 96.01%

Mg 279.077 IEC† 97.2 5129.2 ug/L 93.52 5129.2 ppb 93.52 1.82%

QC value within limits for Mg 279.077 IEC Recovery = 102.58%

Mn 257.610† 260937.0 508.22 ug/L 3.392 508.22 ppb 3.392 0.67%

QC value within limits for Mn 257.610 Recovery = 101.64%

Mo 202.031† 3554.9 498.38 ug/L 3.514 498.38 ppb 3.514 0.71%

QC value within limits for Mo 202.031 Recovery = 99.68%

Na 589.592 Radial† 16871.0 9599.5 ug/L 96.78 9599.5 ppb 96.78 1.01%

QC value within limits for Na 589.592 Radial Recovery = 95.99%

Ni 231.604† 10614.4 514.52 ug/L 4.659 514.52 ppb 4.659 0.91%

QC value within limits for Ni 231.604 Recovery = 102.90%

P 214.914† 2538.8 2480.5 ug/L 8.95 2480.5 ppb 8.95 0.36%

QC value within limits for P 214.914 Recovery = 99.22%

Pb 220.353† 2154.0 507.55 ug/L 3.492 507.55 ppb 3.492 0.69%

QC value within limits for Pb 220.353 Recovery = 101.51%

S 181.975 Axial† 428.1 1051.4 ug/L 4.23 1051.4 ppb 4.23 0.40%

QC value within limits for S 181.975 Axial Recovery = 105.14%

Sb 206.836† 836.2 527.65 ug/L 3.299 527.65 ppb 3.299 0.63%

QC value within limits for Sb 206.836 Recovery = 105.53%

Se 196.026† 454.3 542.19 ug/L 6.187 542.19 ppb 6.187 1.14%

QC value within limits for Se 196.026 Recovery = 108.44%

Si 251.611† 46961.1 2621.8 ug/L 19.11 2621.8 ppb 19.11 0.73%

QC value within limits for Si 251.611 Recovery = 104.87%

Sn 189.927† 1468.3 506.74 ug/L 3.657 506.74 ppb 3.657 0.72%

QC value within limits for Sn 189.927 Recovery = 101.35%

Sr 421.552† 38306.2 487.60 ug/L 3.042 487.60 ppb 3.042 0.62%

QC value within limits for Sr 421.552 Recovery = 97.52%

Ti 334.940† 189175.3 503.20 ug/L 2.585 503.20 ppb 2.585 0.51%

QC value within limits for Ti 334.940 Recovery = 100.64%

Tl 190.801† 880.8 507.57 ug/L 2.301 507.57 ppb 2.301 0.45%

QC value within limits for Tl 190.801 Recovery = 101.51%

U 409.014† 9641.0 527.02 ug/L 3.153 527.02 ppb 3.153 0.60%

QC value within limits for U 409.014 Recovery = 105.40%

V 292.402† 38478.7 515.93 ug/L 2.843 515.93 ppb 2.843 0.55%

QC value within limits for V 292.402 Recovery = 103.19%

Zn 213.857† 29475.3 517.83 ug/L 3.913 517.83 ppb 3.913 0.76%

QC value within limits for Zn 213.857 Recovery = 103.57%

SiO2† 46520.7 5547.5 ug/L 49.89 5547.5 ppb 49.89 0.90%

QC value within limits for SiO2 Recovery = 103.74%

All analyte(s) passed QC.

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/29/2010 16:24:42

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	4122.4	4122.4	131 %		16:26:35
1	Y RADIAL	4448.3	4448.3	129.6 %		16:26:35
1	Al 396.153Radial†	-91.9	17.7	23.211 ug/L	23.211 ppb	16:26:55
1	Ca 317.933Radial†	17.7	-4.7	-10.976 ug/L	-10.976 ppb	16:26:55
1	Fe 238.204 Radial†	7.0	-1.0	-17.016 ug/L	-17.016 ppb	16:26:55
1	K 766.490 Radial†	2905.3	-608.8	-152.75 ug/L	-152.75 ppb	16:26:35
1	Mg 279.077 IEC†	3.4	1.1	57.646 ug/L	57.646 ppb	16:26:55
1	Na 589.592 Radial†	-571.8	171.4	97.537 ug/L	97.537 ppb	16:26:35
1	Sr 421.552†	-1.9	-33.7	-0.4289 ug/L	-0.4289 ppb	16:26:35
1	Sc 361.383	687594.4	687594.4	138.73 %		16:27:52
1	Y 371.029	535833.4	535833.4	129.46 %		16:27:52
1	Ag 328.068†	115.0	-37.6	-0.3415 ug/L	-0.3415 ppb	16:27:52
1	As 188.979†	-22.5	6.4	4.9754 ug/L	4.9754 ppb	16:28:12
1	B 249.677†	-419.3	105.7	4.0837 ug/L	4.0837 ppb	16:28:12
1	Ba 233.527†	-17.6	-5.0	-0.0624 ug/L	-0.0624 ppb	16:28:12
1	Be 313.107†	-4702.4	500.9	0.3112 ug/L	0.3112 ppb	16:27:52
1	Cd 226.502†	-211.9	50.0	1.1359 ug/L	1.1359 ppb	16:28:12
1	Co 228.616†	-64.0	11.6	0.4288 ug/L	0.4288 ppb	16:28:12
1	Cr 267.716†	80.7	-18.1	-0.4177 ug/L	-0.4177 ppb	16:28:12
1	Cu 324.752†	5544.8	-1226.3	-6.3291 ug/L	-6.3291 ppb	16:27:52
1	Mn 257.610†	433.4	-109.6	-0.2175 ug/L	-0.2175 ppb	16:28:12
1	Mo 202.031†	18.4	7.7	1.0714 ug/L	1.0714 ppb	16:28:12
1	Ni 231.604†	71.2	-25.5	-1.2365 ug/L	-1.2365 ppb	16:28:12
1	P 214.914†	213.5	-60.4	-60.127 ug/L	-60.127 ppb	16:28:12
1	Pb 220.353†	-70.8	11.0	2.6070 ug/L	2.6070 ppb	16:28:12
1	S 181.975 Axial†	42.5	-4.6	-11.433 ug/L	-11.433 ppb	16:28:12
1	Sb 206.836†	40.8	-9.1	-5.5159 ug/L	-5.5159 ppb	16:28:12
1	Se 196.026†	-31.3	2.9	3.3416 ug/L	3.3416 ppb	16:28:12
1	Si 251.611†	525.6	-210.6	-11.799 ug/L	-11.799 ppb	16:28:12
1	Sn 189.927†	10.3	-3.2	-1.1187 ug/L	-1.1187 ppb	16:28:12
1	Ti 334.940†	-1438.8	395.7	1.0239 ug/L	1.0239 ppb	16:27:52
1	Tl 190.801†	-37.0	0.4	0.1986 ug/L	0.1986 ppb	16:28:12
1	U 409.014†	-2477.7	953.8	52.312 ug/L	52.312 ppb	16:27:52
1	V 292.402†	-1735.2	335.6	4.5593 ug/L	4.5593 ppb	16:27:52
1	Zn 213.857†	604.4	-216.4	-3.8181 ug/L	-3.8181 ppb	16:28:12
1	SiO2†	535.4	-204.1	-24.423 ug/L	-24.423 ppb	16:29:08
2	Sc Radial	4055.3	4055.3	129 %		16:27:00
2	Y RADIAL	4379.3	4379.3	127.6 %		16:27:00
2	Al 396.153Radial†	-87.7	19.7	25.874 ug/L	25.874 ppb	16:27:20
2	Ca 317.933Radial†	14.5	-6.9	-16.286 ug/L	-16.286 ppb	16:27:20
2	Fe 238.204 Radial†	6.6	-1.3	-20.622 ug/L	-20.622 ppb	16:27:20
2	K 766.490 Radial†	2913.4	-565.8	-141.97 ug/L	-141.97 ppb	16:27:00
2	Mg 279.077 IEC†	-0.7	-2.0	-107.44 ug/L	-107.44 ppb	16:27:20
2	Na 589.592 Radial†	-573.2	163.2	92.837 ug/L	92.837 ppb	16:27:00
2	Sr 421.552†	22.0	-15.2	-0.1933 ug/L	-0.1933 ppb	16:27:00
2	Sc 361.383	683543.7	683543.7	137.91 %		16:28:17
2	Y 371.029	533201.4	533201.4	128.82 %		16:28:17
2	Ag 328.068†	97.5	-49.8	-0.4420 ug/L	-0.4420 ppb	16:28:17
2	As 188.979†	-27.4	2.8	2.1588 ug/L	2.1588 ppb	16:28:37
2	B 249.677†	-475.9	62.8	2.4294 ug/L	2.4294 ppb	16:28:37
2	Ba 233.527†	9.2	14.4	0.2165 ug/L	0.2165 ppb	16:28:37
2	Be 313.107†	-4663.8	508.8	0.3159 ug/L	0.3159 ppb	16:28:17
2	Cd 226.502†	-203.0	55.6	1.2606 ug/L	1.2606 ppb	16:28:37
2	Co 228.616†	-56.1	17.1	0.6298 ug/L	0.6298 ppb	16:28:37
2	Cr 267.716†	71.2	-24.6	-0.5620 ug/L	-0.5620 ppb	16:28:37
2	Cu 324.752†	5537.1	-1208.2	-6.2353 ug/L	-6.2353 ppb	16:28:17
2	Mn 257.610†	415.1	-121.1	-0.2333 ug/L	-0.2333 ppb	16:28:37
2	Mo 202.031†	23.3	11.3	1.5768 ug/L	1.5768 ppb	16:28:37
2	Ni 231.604†	53.9	-37.8	-1.8334 ug/L	-1.8334 ppb	16:28:37

2	P 214.914†	223.4	-52.3	-51.890 ug/L	-51.890 ppb	16:28:37
2	Pb 220.353†	-61.5	17.5	4.1210 ug/L	4.1210 ppb	16:28:37
2	S 181.975 Axial†	36.3	-9.0	-22.168 ug/L	-22.168 ppb	16:28:37
2	Sb 206.836†	44.6	-6.2	-3.7179 ug/L	-3.7179 ppb	16:28:37
2	Se 196.026†	-39.3	-3.0	-3.4983 ug/L	-3.4983 ppb	16:28:37
2	Si 251.611†	549.7	-191.0	-10.705 ug/L	-10.705 ppb	16:28:37
2	Sn 189.927†	15.3	0.4	0.1471 ug/L	0.1471 ppb	16:28:37
2	Ti 334.940†	-1482.1	358.2	0.9374 ug/L	0.9374 ppb	16:28:17
2	Tl 190.801†	-35.3	1.4	0.8132 ug/L	0.8132 ppb	16:28:37
2	U 409.014†	-2496.8	929.3	50.971 ug/L	50.971 ppb	16:28:17
2	V 292.402†	-1703.6	351.1	4.7664 ug/L	4.7664 ppb	16:28:17
2	Zn 213.857†	589.1	-225.0	-3.9657 ug/L	-3.9657 ppb	16:28:37
2	SiO2†	576.3	-172.1	-20.618 ug/L	-20.618 ppb	16:29:13
3	Sc Radial	3994.0	3994.0	127 %		16:27:25
3	Y RADIAL	4287.0	4287.0	124.9 %		16:27:25
3	Al 396.153Radial†	-104.6	5.4	7.0528 ug/L	7.0528 ppb	16:27:45
3	Ca 317.933Radial†	14.5	-6.7	-15.878 ug/L	-15.878 ppb	16:27:45
3	Fe 238.204 Radial†	7.3	-0.7	-11.030 ug/L	-11.030 ppb	16:27:45
3	K 766.490 Radial†	2748.0	-661.4	-165.93 ug/L	-165.93 ppb	16:27:25
3	Mg 279.077 IEC†	2.8	0.8	40.721 ug/L	40.721 ppb	16:27:45
3	Na 589.592 Radial†	-564.7	163.0	92.755 ug/L	92.755 ppb	16:27:25
3	Sr 421.552†	65.5	19.3	0.2457 ug/L	0.2457 ppb	16:27:25
3	Sc 361.383	688164.6	688164.6	138.84 %		16:28:43
3	Y 371.029	536586.3	536586.3	129.64 %		16:28:43
3	Ag 328.068†	133.5	-24.3	-0.2311 ug/L	-0.2311 ppb	16:28:43
3	As 188.979†	-18.0	9.7	7.5381 ug/L	7.5381 ppb	16:29:03
3	B 249.677†	-478.1	63.6	2.4574 ug/L	2.4574 ppb	16:29:03
3	Ba 233.527†	-19.9	-6.6	-0.0860 ug/L	-0.0860 ppb	16:29:03
3	Be 313.107†	-4555.4	609.6	0.3783 ug/L	0.3783 ppb	16:28:43
3	Cd 226.502†	-212.4	49.8	1.1302 ug/L	1.1302 ppb	16:29:03
3	Co 228.616†	-55.3	17.9	0.6558 ug/L	0.6558 ppb	16:29:03
3	Cr 267.716†	80.7	-18.1	-0.4186 ug/L	-0.4186 ppb	16:29:03
3	Cu 324.752†	5662.6	-1144.8	-5.9108 ug/L	-5.9108 ppb	16:28:43
3	Mn 257.610†	440.2	-105.0	-0.2071 ug/L	-0.2071 ppb	16:29:03
3	Mo 202.031†	8.8	0.8	0.1046 ug/L	0.1046 ppb	16:29:03
3	Ni 231.604†	66.4	-29.0	-1.4072 ug/L	-1.4072 ppb	16:29:03
3	P 214.914†	222.7	-53.9	-53.623 ug/L	-53.623 ppb	16:29:03
3	Pb 220.353†	-52.8	24.0	5.6463 ug/L	5.6463 ppb	16:29:03
3	S 181.975 Axial†	36.5	-9.0	-22.124 ug/L	-22.124 ppb	16:29:03
3	Sb 206.836†	34.5	-13.7	-8.3792 ug/L	-8.3792 ppb	16:29:03
3	Se 196.026†	-33.7	1.2	1.3708 ug/L	1.3708 ppb	16:29:03
3	Si 251.611†	524.2	-212.0	-11.865 ug/L	-11.865 ppb	16:29:03
3	Sn 189.927†	-3.2	-13.0	-4.4738 ug/L	-4.4738 ppb	16:29:03
3	Ti 334.940†	-1421.7	408.9	1.0590 ug/L	1.0590 ppb	16:28:43
3	Tl 190.801†	-40.9	-2.4	-1.3892 ug/L	-1.3892 ppb	16:29:03
3	U 409.014†	-2444.5	979.2	53.704 ug/L	53.704 ppb	16:28:43
3	V 292.402†	-1751.5	324.9	4.4054 ug/L	4.4054 ppb	16:28:43
3	Zn 213.857†	588.7	-228.2	-4.0264 ug/L	-4.0264 ppb	16:29:03
3	SiO2†	528.9	-209.1	-24.993 ug/L	-24.993 ppb	16:29:18

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	686434.2	138.49 %	0.508			0.37%
Sc Radial	4057.2	129 %	2.0			1.58%
Y 371.029	535207.0	129.31 %	0.429			0.33%
Y RADIAL	4371.5	127.4 %	2.36			1.85%
Ag 328.068†	-37.2	-0.3382 ug/L	0.10550	-0.3382 ppb	0.10550	31.19%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	14.3	18.713 ug/L	10.1853	18.713 ppb	10.1853	54.43%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	6.3	4.8908 ug/L	2.69064	4.8908 ppb	2.69064	55.01%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	77.4	2.9902 ug/L	0.94711	2.9902 ppb	0.94711	31.67%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	0.9	0.0227 ug/L	0.16826	0.0227 ppb	0.16826	741.07%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	539.8	0.3352 ug/L	0.03747	0.3352 ppb	0.03747	11.18%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-6.1	-14.380 ug/L	2.9552	-14.380 ppb	2.9552	20.55%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	51.8	1.1756 ug/L	0.07368	1.1756 ppb	0.07368	6.27%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	15.5	0.5714 ug/L	0.12423	0.5714 ppb	0.12423	21.74%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-20.3	-0.4661 ug/L	0.08304	-0.4661 ppb	0.08304	17.82%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-1193.1	-6.1584 ug/L	0.21947	-6.1584 ppb	0.21947	3.56%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-1.0	-16.223 ug/L	4.8446	-16.223 ppb	4.8446	29.86%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-612.0	-153.55 ug/L	12.000	-153.55 ppb	12.000	7.82%	
QC value less than the lower limit for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.1	-3.0253 ug/L	90.82396	-3.0253 ppb	90.82396	>999.9%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-111.9	-0.2193 ug/L	0.01321	-0.2193 ppb	0.01321	6.02%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	6.6	0.9176 ug/L	0.74803	0.9176 ppb	0.74803	81.52%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	165.9	94.376 ug/L	2.7379	94.376 ppb	2.7379	2.90%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-30.8	-1.4924 ug/L	0.30743	-1.4924 ppb	0.30743	20.60%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-55.5	-55.214 ug/L	4.3428	-55.214 ppb	4.3428	7.87%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	17.5	4.1247 ug/L	1.51966	4.1247 ppb	1.51966	36.84%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-7.6	-18.575 ug/L	6.1854	-18.575 ppb	6.1854	33.30%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-9.6	-5.8710 ug/L	2.35082	-5.8710 ppb	2.35082	40.04%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.4	0.4047 ug/L	3.52082	0.4047 ppb	3.52082	870.06%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-204.5	-11.456 ug/L	0.6511	-11.456 ppb	0.6511	5.68%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-5.3	-1.8151 ug/L	2.38790	-1.8151 ppb	2.38790	131.56%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-9.9	-0.1255 ug/L	0.34238	-0.1255 ppb	0.34238	272.78%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	387.6	1.0068 ug/L	0.06259	1.0068 ppb	0.06259	6.22%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-0.2	-0.1258 ug/L	1.13649	-0.1258 ppb	1.13649	903.63%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	954.1	52.329 ug/L	1.3668	52.329 ppb	1.3668	2.61%	
QC value greater than the upper limit for U 409.014 Recovery = Not calculated							
V 292.402†	337.2	4.5770 ug/L	0.18112	4.5770 ppb	0.18112	3.96%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-223.2	-3.9368 ug/L	0.10712	-3.9368 ppb	0.10712	2.72%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	-195.1	-23.345 ug/L	2.3786	-23.345 ppb	2.3786	10.19%	
QC value within limits for SiO2 Recovery = Not calculated							

QC Failed. Continue with analysis.

Sequence No.: 8

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/29/2010 17:17:40

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3713.2	3713.2	118 %		17:19:52
1	Y RADIAL	4034.5	4034.5	117.5 %		17:19:32
1	Al 396.153Radial†	4097.5	3557.0	4654.0 ug/L	4654.0 ppb	17:19:32
1	Ca 317.933Radial†	2475.2	2077.6	4903.6 ug/L	4903.6 ppb	17:19:52
1	Fe 238.204 Radial†	386.1	320.5	5255.8 ug/L	5255.8 ppb	17:19:52
1	K 766.490 Radial†	26600.7	19697.6	4934.6 ug/L	4934.6 ppb	17:19:32
1	Mg 279.077 IEC†	117.7	98.2	5182.0 ug/L	5182.0 ppb	17:19:52
1	Na 589.592 Radial†	19865.9	17427.4	9916.1 ug/L	9916.1 ppb	17:19:32
1	Sr 421.552†	46672.4	39484.0	502.59 ug/L	502.59 ppb	17:19:32
1	Sc 361.383	692213.9	692213.9	139.66 %		17:20:49
1	Y 371.029	461214.4	461214.4	111.43 %		17:20:54
1	Ag 328.068†	84109.9	60105.5	502.04 ug/L	502.04 ppb	17:20:54
1	As 188.979†	875.1	649.2	509.55 ug/L	509.55 ppb	17:21:15
1	B 249.677†	17585.6	12999.9	499.87 ug/L	499.87 ppb	17:20:54
1	Ba 233.527†	48310.2	34599.7	499.81 ug/L	499.81 ppb	17:20:54
1	Be 313.107†	1139327.8	819693.0	506.50 ug/L	506.50 ppb	17:20:49
1	Cd 226.502†	31323.3	22631.5	508.51 ug/L	508.51 ppb	17:20:54
1	Co 228.616†	19229.6	13826.9	508.43 ug/L	508.43 ppb	17:20:54
1	Cr 267.716†	31280.7	22321.9	496.68 ug/L	496.68 ppb	17:20:54
1	Cu 324.752†	142266.2	96644.8	496.43 ug/L	496.43 ppb	17:20:54
1	Mn 257.610†	366472.0	261986.0	510.27 ug/L	510.27 ppb	17:20:49
1	Mo 202.031†	4874.3	3484.6	488.54 ug/L	488.54 ppb	17:21:15
1	Ni 231.604†	14498.0	10304.3	499.49 ug/L	499.49 ppb	17:20:54
1	P 214.914†	3733.2	2458.8	2401.7 ug/L	2401.7 ppb	17:21:15
1	Pb 220.353†	2835.7	2092.5	493.11 ug/L	493.11 ppb	17:21:15
1	S 181.975 Axial†	634.9	419.3	1029.8 ug/L	1029.8 ppb	17:21:15
1	Sb 206.836†	1192.7	815.5	514.64 ug/L	514.64 ppb	17:21:15
1	Se 196.026†	591.4	449.0	536.18 ug/L	536.18 ppb	17:21:15
1	Si 251.611†	64724.2	45755.5	2554.4 ug/L	2554.4 ppb	17:20:54
1	Sn 189.927†	2019.0	1435.0	495.31 ug/L	495.31 ppb	17:21:15
1	Ti 334.940†	256353.8	184992.0	492.07 ug/L	492.07 ppb	17:20:54
1	Tl 190.801†	1161.5	858.7	494.94 ug/L	494.94 ppb	17:21:15
1	U 409.014†	9623.2	9630.4	526.46 ug/L	526.46 ppb	17:20:54
1	V 292.402†	50356.5	37643.6	504.74 ug/L	504.74 ppb	17:20:54
1	Zn 213.857†	40940.0	28662.5	503.53 ug/L	503.53 ppb	17:20:54
1	SiO2†	62791.4	44371.1	5290.8 ug/L	5290.8 ppb	17:22:22
2	Sc Radial	3840.7	3840.7	122 %		17:20:17
2	Y RADIAL	4081.8	4081.8	118.9 %		17:19:57
2	Al 396.153Radial†	4317.9	3622.3	4740.1 ug/L	4740.1 ppb	17:19:57
2	Ca 317.933Radial†	2478.2	2010.5	4745.3 ug/L	4745.3 ppb	17:20:17
2	Fe 238.204 Radial†	383.5	307.5	5043.7 ug/L	5043.7 ppb	17:20:17
2	K 766.490 Radial†	27540.4	19719.5	4940.1 ug/L	4940.1 ppb	17:19:57
2	Mg 279.077 IEC†	121.3	97.8	5163.1 ug/L	5163.1 ppb	17:20:17
2	Na 589.592 Radial†	20683.3	17538.4	9979.2 ug/L	9979.2 ppb	17:19:57
2	Sr 421.552†	48734.3	39860.6	507.39 ug/L	507.39 ppb	17:19:57
2	Sc 361.383	678822.6	678822.6	136.96 %		17:21:20
2	Y 371.029	457888.9	457888.9	110.63 %		17:21:25
2	Ag 328.068†	82474.3	60099.3	501.92 ug/L	501.92 ppb	17:21:25
2	As 188.979†	857.6	648.8	509.20 ug/L	509.20 ppb	17:21:45
2	B 249.677†	17192.1	12961.0	498.40 ug/L	498.40 ppb	17:21:25
2	Ba 233.527†	47452.7	34656.0	500.61 ug/L	500.61 ppb	17:21:25
2	Be 313.107†	1121792.2	822982.8	508.53 ug/L	508.53 ppb	17:21:20
2	Cd 226.502†	30659.4	22589.2	507.58 ug/L	507.58 ppb	17:21:25
2	Co 228.616†	18763.4	13758.1	505.89 ug/L	505.89 ppb	17:21:25
2	Cr 267.716†	30811.7	22421.4	498.87 ug/L	498.87 ppb	17:21:25
2	Cu 324.752†	139531.8	96657.8	496.48 ug/L	496.48 ppb	17:21:25
2	Mn 257.610†	360825.2	263039.5	512.30 ug/L	512.30 ppb	17:21:20
2	Mo 202.031†	4743.3	3457.8	484.76 ug/L	484.76 ppb	17:21:45
2	Ni 231.604†	14223.1	10308.4	499.69 ug/L	499.69 ppb	17:21:25

2	P 214.914†	3623.9	2431.7	2374.3 ug/L	2374.3 ppb	17:21:45
2	Pb 220.353†	2773.3	2087.0	491.85 ug/L	491.85 ppb	17:21:45
2	S 181.975 Axial†	614.5	413.4	1015.2 ug/L	1015.2 ppb	17:21:45
2	Sb 206.836†	1165.5	812.5	512.74 ug/L	512.74 ppb	17:21:45
2	Se 196.026†	562.8	436.4	521.12 ug/L	521.12 ppb	17:21:45
2	Si 251.611†	63152.8	45522.4	2541.4 ug/L	2541.4 ppb	17:21:25
2	Sn 189.927†	1972.4	1429.5	493.36 ug/L	493.36 ppb	17:21:45
2	Ti 334.940†	251409.6	185003.1	492.08 ug/L	492.08 ppb	17:21:25
2	Tl 190.801†	1139.4	859.0	495.13 ug/L	495.13 ppb	17:21:45
2	U 409.014†	9463.4	9649.7	527.54 ug/L	527.54 ppb	17:21:25
2	V 292.402†	49339.6	37612.4	504.31 ug/L	504.31 ppb	17:21:25
2	Zn 213.857†	40027.0	28574.1	501.99 ug/L	501.99 ppb	17:21:25
2	SiO2†	63999.1	46139.9	5502.3 ug/L	5502.3 ppb	17:22:27
3	Sc Radial	3784.6	3784.6	120 %		17:20:42
3	Y RADIAL	4265.9	4265.9	124.3 %		17:20:22
3	Al 396.153Radial†	4219.7	3593.1	4701.6 ug/L	4701.6 ppb	17:20:22
3	Ca 317.933Radial†	2556.7	2105.8	4970.2 ug/L	4970.2 ppb	17:20:42
3	Fe 238.204 Radial†	398.8	324.9	5327.7 ug/L	5327.7 ppb	17:20:42
3	K 766.490 Radial†	27313.1	19864.7	4976.4 ug/L	4976.4 ppb	17:20:22
3	Mg 279.077 IEC†	120.5	98.6	5206.7 ug/L	5206.7 ppb	17:20:42
3	Na 589.592 Radial†	20476.8	17617.8	10024 ug/L	10024 ppb	17:20:22
3	Sr 421.552†	48131.3	39950.8	508.54 ug/L	508.54 ppb	17:20:22
3	Sc 361.383	687735.4	687735.4	138.75 %		17:21:51
3	Y 371.029	457468.7	457468.7	110.53 %		17:21:56
3	Ag 328.068†	82731.2	59504.0	497.06 ug/L	497.06 ppb	17:21:56
3	As 188.979†	876.4	654.2	513.42 ug/L	513.42 ppb	17:22:16
3	B 249.677†	17388.3	12939.7	497.55 ug/L	497.55 ppb	17:21:56
3	Ba 233.527†	47647.7	34347.5	496.17 ug/L	496.17 ppb	17:21:56
3	Be 313.107†	1132996.9	820442.9	506.96 ug/L	506.96 ppb	17:21:51
3	Cd 226.502†	30766.2	22376.1	502.76 ug/L	502.76 ppb	17:21:56
3	Co 228.616†	18861.7	13651.4	501.98 ug/L	501.98 ppb	17:21:56
3	Cr 267.716†	30802.2	22123.0	492.27 ug/L	492.27 ppb	17:21:56
3	Cu 324.752†	140212.6	95828.1	492.24 ug/L	492.24 ppb	17:21:56
3	Mn 257.610†	365212.8	262787.2	511.83 ug/L	511.83 ppb	17:21:51
3	Mo 202.031†	4840.8	3483.2	488.34 ug/L	488.34 ppb	17:22:16
3	Ni 231.604†	14278.8	10213.9	495.11 ug/L	495.11 ppb	17:21:56
3	P 214.914†	3705.8	2456.5	2400.1 ug/L	2400.1 ppb	17:22:16
3	Pb 220.353†	2837.1	2106.7	496.46 ug/L	496.46 ppb	17:22:16
3	S 181.975 Axial†	634.4	421.9	1036.1 ug/L	1036.1 ppb	17:22:16
3	Sb 206.836†	1199.1	825.7	520.86 ug/L	520.86 ppb	17:22:16
3	Se 196.026†	589.6	450.4	538.02 ug/L	538.02 ppb	17:22:16
3	Si 251.611†	63433.1	45126.8	2519.3 ug/L	2519.3 ppb	17:21:56
3	Sn 189.927†	2005.1	1434.4	495.11 ug/L	495.11 ppb	17:22:16
3	Ti 334.940†	252808.9	183632.5	488.47 ug/L	488.47 ppb	17:21:56
3	Tl 190.801†	1164.0	865.9	499.09 ug/L	499.09 ppb	17:22:16
3	U 409.014†	9132.4	9321.5	509.52 ug/L	509.52 ppb	17:21:56
3	V 292.402†	49449.3	37224.6	499.16 ug/L	499.16 ppb	17:21:56
3	Zn 213.857†	40187.0	28310.7	497.31 ug/L	497.31 ppb	17:21:56
3	SiO2†	64098.6	45605.9	5438.4 ug/L	5438.4 ppb	17:22:32

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	686257.3	138.46 %	1.375			0.99%
Sc Radial	3779.5	120 %	2.0			1.69%
Y 371.029	458857.3	110.86 %	0.496			0.45%
Y RADIAL	4127.4	120.3 %	3.56			2.96%
Ag 328.068†	59903.0	500.34 ug/L	2.842	500.34 ppb	2.842	0.57%
QC value within limits for Ag 328.068 Recovery = 100.07%						
Al 396.153Radial†	3590.8	4698.5 ug/L	43.09	4698.5 ppb	43.09	0.92%
QC value within limits for Al 396.153Radial Recovery = 93.97%						
As 188.979†	650.7	510.73 ug/L	2.343	510.73 ppb	2.343	0.46%
QC value within limits for As 188.979 Recovery = 102.15%						
B 249.677†	12966.9	498.61 ug/L	1.173	498.61 ppb	1.173	0.24%
QC value within limits for B 249.677 Recovery = 99.72%						
Ba 233.527†	34534.4	498.86 ug/L	2.370	498.86 ppb	2.370	0.48%
QC value within limits for Ba 233.527 Recovery = 99.77%						
Be 313.107†	821039.6	507.33 ug/L	1.065	507.33 ppb	1.065	0.21%
QC value within limits for Be 313.107 Recovery = 101.47%						
Ca 317.933Radial†	2064.6	4873.0 ug/L	115.55	4873.0 ppb	115.55	2.37%

QC value within limits for Ca 317.933 Radial Recovery = 97.46%									
Cd	226.502†	22532.2	506.28 ug/L	3.089	506.28 ppb	3.089	0.61%		
QC value within limits for Cd 226.502 Recovery = 101.26%									
Co	228.616†	13745.5	505.44 ug/L	3.247	505.44 ppb	3.247	0.64%		
QC value within limits for Co 228.616 Recovery = 101.09%									
Cr	267.716†	22288.7	495.94 ug/L	3.360	495.94 ppb	3.360	0.68%		
QC value within limits for Cr 267.716 Recovery = 99.19%									
Cu	324.752†	96376.9	495.05 ug/L	2.430	495.05 ppb	2.430	0.49%		
QC value within limits for Cu 324.752 Recovery = 99.01%									
Fe	238.204 Radial†	317.6	5209.0 ug/L	147.67	5209.0 ppb	147.67	2.83%		
QC value within limits for Fe 238.204 Radial Recovery = 104.18%									
K	766.490 Radial†	19760.6	4950.4 ug/L	22.74	4950.4 ppb	22.74	0.46%		
QC value within limits for K 766.490 Radial Recovery = 99.01%									
Mg	279.077 IEC†	98.2	5183.9 ug/L	21.84	5183.9 ppb	21.84	0.42%		
QC value within limits for Mg 279.077 IEC Recovery = 103.68%									
Mn	257.610†	262604.2	511.47 ug/L	1.064	511.47 ppb	1.064	0.21%		
QC value within limits for Mn 257.610 Recovery = 102.29%									
Mo	202.031†	3475.2	487.21 ug/L	2.127	487.21 ppb	2.127	0.44%		
QC value within limits for Mo 202.031 Recovery = 97.44%									
Na	589.592 Radial†	17527.9	9973.2 ug/L	54.39	9973.2 ppb	54.39	0.55%		
QC value within limits for Na 589.592 Radial Recovery = 99.73%									
Ni	231.604†	10275.5	498.09 ug/L	2.588	498.09 ppb	2.588	0.52%		
QC value within limits for Ni 231.604 Recovery = 99.62%									
P	214.914†	2449.0	2392.0 ug/L	15.36	2392.0 ppb	15.36	0.64%		
QC value within limits for P 214.914 Recovery = 95.68%									
Pb	220.353†	2095.4	493.81 ug/L	2.382	493.81 ppb	2.382	0.48%		
QC value within limits for Pb 220.353 Recovery = 98.76%									
S	181.975 Axial†	418.2	1027.1 ug/L	10.70	1027.1 ppb	10.70	1.04%		
QC value within limits for S 181.975 Axial Recovery = 102.71%									
Sb	206.836†	817.9	516.08 ug/L	4.251	516.08 ppb	4.251	0.82%		
QC value within limits for Sb 206.836 Recovery = 103.22%									
Se	196.026†	445.3	531.77 ug/L	9.273	531.77 ppb	9.273	1.74%		
QC value within limits for Se 196.026 Recovery = 106.35%									
Si	251.611†	45468.2	2538.4 ug/L	17.79	2538.4 ppb	17.79	0.70%		
QC value within limits for Si 251.611 Recovery = 101.54%									
Sn	189.927†	1433.0	494.59 ug/L	1.076	494.59 ppb	1.076	0.22%		
QC value within limits for Sn 189.927 Recovery = 98.92%									
Sr	421.552†	39765.2	506.17 ug/L	3.152	506.17 ppb	3.152	0.62%		
QC value within limits for Sr 421.552 Recovery = 101.23%									
Ti	334.940†	184542.5	490.88 ug/L	2.082	490.88 ppb	2.082	0.42%		
QC value within limits for Ti 334.940 Recovery = 98.18%									
Tl	190.801†	861.2	496.39 ug/L	2.347	496.39 ppb	2.347	0.47%		
QC value within limits for Tl 190.801 Recovery = 99.28%									
U	409.014†	9533.9	521.17 ug/L	10.103	521.17 ppb	10.103	1.94%		
QC value within limits for U 409.014 Recovery = 104.23%									
V	292.402†	37493.5	502.74 ug/L	3.107	502.74 ppb	3.107	0.62%		
QC value within limits for V 292.402 Recovery = 100.55%									
Zn	213.857†	28515.8	500.94 ug/L	3.237	500.94 ppb	3.237	0.65%		
QC value within limits for Zn 213.857 Recovery = 100.19%									
SiO2†		45372.3	5410.5 ug/L	108.50	5410.5 ppb	108.50	2.01%		
QC value within limits for SiO2 Recovery = 101.18%									

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/29/2010 17:24:41

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4062.4	4062.4	129 %		17:26:34
1	Y RADIAL	4448.0	4448.0	129.6 %		17:26:34
1	Al 396.153Radial†	-125.8	-9.6	-12.669 ug/L	-12.669 ppb	17:26:34
1	Ca 317.933Radial†	10.4	-10.1	-23.797 ug/L	-23.797 ppb	17:26:54
1	Fe 238.204 Radial†	8.0	-0.2	-4.0362 ug/L	-4.0362 ppb	17:26:54
1	K 766.490 Radial†	2858.7	-612.2	-153.59 ug/L	-153.59 ppb	17:26:34
1	Mg 279.077 IEC†	2.9	0.8	41.324 ug/L	41.324 ppb	17:26:54
1	Na 589.592 Radial†	-516.6	207.7	118.19 ug/L	118.19 ppb	17:26:34
1	Sr 421.552†	46.0	3.4	0.0429 ug/L	0.0429 ppb	17:26:34
1	Sc 361.383	681031.3	681031.3	137.40 %		17:27:51
1	Y 371.029	531749.0	531749.0	128.47 %		17:27:51
1	Ag 328.068†	176.9	8.3	0.0389 ug/L	0.0389 ppb	17:27:51
1	As 188.979†	-19.2	8.6	6.7174 ug/L	6.7174 ppb	17:28:11
1	B 249.677†	-489.9	51.4	1.9870 ug/L	1.9870 ppb	17:28:11
1	Ba 233.527†	-15.8	-3.8	-0.0451 ug/L	-0.0451 ppb	17:28:11
1	Be 313.107†	-4595.1	546.4	0.3393 ug/L	0.3393 ppb	17:27:51
1	Cd 226.502†	-199.3	57.8	1.3096 ug/L	1.3096 ppb	17:28:11
1	Co 228.616†	-73.9	4.0	0.1471 ug/L	0.1471 ppb	17:28:11
1	Cr 267.716†	91.7	-9.5	-0.2278 ug/L	-0.2278 ppb	17:28:11
1	Cu 324.752†	5460.3	-1249.2	-6.4496 ug/L	-6.4496 ppb	17:27:51
1	Mn 257.610†	403.9	-128.1	-0.2514 ug/L	-0.2514 ppb	17:28:11
1	Mo 202.031†	18.2	7.7	1.0715 ug/L	1.0715 ppb	17:28:11
1	Ni 231.604†	60.8	-32.6	-1.5799 ug/L	-1.5799 ppb	17:28:11
1	P 214.914†	221.3	-53.3	-52.872 ug/L	-52.872 ppb	17:28:11
1	Pb 220.353†	-89.5	-3.1	-0.7160 ug/L	-0.7160 ppb	17:28:11
1	S 181.975 Axial†	42.6	-4.3	-10.577 ug/L	-10.577 ppb	17:28:11
1	Sb 206.836†	46.3	-4.8	-2.9030 ug/L	-2.9030 ppb	17:28:11
1	Se 196.026†	-28.4	4.8	5.5671 ug/L	5.5671 ppb	17:28:11
1	Si 251.611†	498.6	-226.7	-12.697 ug/L	-12.697 ppb	17:28:11
1	Sn 189.927†	7.6	-5.1	-1.7770 ug/L	-1.7770 ppb	17:28:11
1	Ti 334.940†	-1413.1	404.4	1.0440 ug/L	1.0440 ppb	17:27:51
1	Tl 190.801†	-31.1	4.4	2.5375 ug/L	2.5375 ppb	17:28:11
1	U 409.014†	-2303.7	1063.2	58.311 ug/L	58.311 ppb	17:27:51
1	V 292.402†	-1706.8	344.2	4.6827 ug/L	4.6827 ppb	17:27:51
1	Zn 213.857†	589.2	-223.3	-3.9399 ug/L	-3.9399 ppb	17:28:11
1	SiO2†	537.8	-198.6	-23.770 ug/L	-23.770 ppb	17:29:07
2	Sc Radial	3851.6	3851.6	123 %		17:26:59
2	Y RADIAL	4135.0	4135.0	120.5 %		17:26:59
2	Al 396.153Radial†	-110.2	-2.2	-2.9257 ug/L	-2.9257 ppb	17:26:59
2	Ca 317.933Radial†	12.8	-7.7	-18.179 ug/L	-18.179 ppb	17:27:19
2	Fe 238.204 Radial†	6.3	-1.3	-20.954 ug/L	-20.954 ppb	17:27:19
2	K 766.490 Radial†	2718.2	-605.7	-151.95 ug/L	-151.95 ppb	17:26:59
2	Mg 279.077 IEC†	0.3	-1.2	-65.550 ug/L	-65.550 ppb	17:27:19
2	Na 589.592 Radial†	-630.0	93.3	53.079 ug/L	53.079 ppb	17:26:59
2	Sr 421.552†	25.4	-11.5	-0.1467 ug/L	-0.1467 ppb	17:26:59
2	Sc 361.383	652703.8	652703.8	131.69 %		17:28:16
2	Y 371.029	510455.9	510455.9	123.33 %		17:28:16
2	Ag 328.068†	-3.8	-123.3	-1.0515 ug/L	-1.0515 ppb	17:28:16
2	As 188.979†	-35.6	-4.4	-3.4248 ug/L	-3.4248 ppb	17:28:36
2	B 249.677†	-495.8	31.5	1.2181 ug/L	1.2181 ppb	17:28:36
2	Ba 233.527†	-5.6	3.4	0.0594 ug/L	0.0594 ppb	17:28:36
2	Be 313.107†	-4456.1	506.7	0.3145 ug/L	0.3145 ppb	17:28:16
2	Cd 226.502†	-209.4	43.8	0.9946 ug/L	0.9946 ppb	17:28:36
2	Co 228.616†	-65.5	8.0	0.2921 ug/L	0.2921 ppb	17:28:36
2	Cr 267.716†	85.7	-11.1	-0.2627 ug/L	-0.2627 ppb	17:28:36
2	Cu 324.752†	5404.2	-1119.4	-5.7791 ug/L	-5.7791 ppb	17:28:16
2	Mn 257.610†	443.7	-85.1	-0.1650 ug/L	-0.1650 ppb	17:28:36
2	Mo 202.031†	6.4	-0.7	-0.0990 ug/L	-0.0990 ppb	17:28:36
2	Ni 231.604†	60.9	-30.6	-1.4837 ug/L	-1.4837 ppb	17:28:36

2	P 214.914†	226.2	-42.5	-42.063 ug/L	-42.063 ppb	17:28:36
2	Pb 220.353†	-76.2	4.2	0.9908 ug/L	0.9908 ppb	17:28:36
2	S 181.975 Axial†	37.7	-6.7	-16.399 ug/L	-16.399 ppb	17:28:36
2	Sb 206.836†	37.8	-9.8	-5.9722 ug/L	-5.9722 ppb	17:28:36
2	Se 196.026†	-23.2	7.8	9.0152 ug/L	9.0152 ppb	17:28:36
2	Si 251.611†	489.2	-218.1	-12.201 ug/L	-12.201 ppb	17:28:36
2	Sn 189.927†	14.3	0.2	0.0750 ug/L	0.0750 ppb	17:28:36
2	Ti 334.940†	-1440.0	339.4	0.8840 ug/L	0.8840 ppb	17:28:16
2	Tl 190.801†	-34.5	0.8	0.4791 ug/L	0.4791 ppb	17:28:36
2	U 409.014†	-2402.7	915.2	50.196 ug/L	50.196 ppb	17:28:16
2	V 292.402†	-1615.1	359.9	4.8590 ug/L	4.8590 ppb	17:28:16
2	Zn 213.857†	589.6	-204.4	-3.6032 ug/L	-3.6032 ppb	17:28:36
2	SiO2†	543.7	-177.1	-21.169 ug/L	-21.169 ppb	17:29:12
3	Sc Radial	3713.8	3713.8	118 %		17:27:24
3	Y RADIAL	4034.1	4034.1	117.5 %		17:27:24
3	Al 396.153Radial†	-74.6	24.6	32.256 ug/L	32.256 ppb	17:27:24
3	Ca 317.933Radial†	11.9	-8.0	-18.981 ug/L	-18.981 ppb	17:27:44
3	Fe 238.204 Radial†	6.4	-1.0	-15.943 ug/L	-15.943 ppb	17:27:44
3	K 766.490 Radial†	2826.0	-432.2	-108.43 ug/L	-108.43 ppb	17:27:24
3	Mg 279.077 IEC†	2.5	0.7	34.714 ug/L	34.714 ppb	17:27:44
3	Na 589.592 Radial†	-578.9	117.4	66.827 ug/L	66.827 ppb	17:27:24
3	Sr 421.552†	21.1	-14.4	-0.1828 ug/L	-0.1828 ppb	17:27:24
3	Sc 361.383	666583.2	666583.2	134.49 %		17:28:42
3	Y 371.029	520339.7	520339.7	125.72 %		17:28:42
3	Ag 328.068†	219.4	42.7	0.3257 ug/L	0.3257 ppb	17:28:42
3	As 188.979†	-25.5	3.7	2.8496 ug/L	2.8496 ppb	17:29:02
3	B 249.677†	-496.2	39.0	1.5080 ug/L	1.5080 ppb	17:29:02
3	Ba 233.527†	-8.5	1.4	0.0282 ug/L	0.0282 ppb	17:29:02
3	Be 313.107†	-4450.2	581.6	0.3609 ug/L	0.3609 ppb	17:28:42
3	Cd 226.502†	-207.2	48.8	1.1063 ug/L	1.1063 ppb	17:29:02
3	Co 228.616†	-53.5	18.0	0.6620 ug/L	0.6620 ppb	17:29:02
3	Cr 267.716†	69.2	-24.8	-0.5668 ug/L	-0.5668 ppb	17:29:02
3	Cu 324.752†	5480.5	-1148.1	-5.9259 ug/L	-5.9259 ppb	17:28:42
3	Mn 257.610†	444.9	-91.2	-0.1806 ug/L	-0.1806 ppb	17:29:02
3	Mo 202.031†	21.2	10.2	1.4219 ug/L	1.4219 ppb	17:29:02
3	Ni 231.604†	67.2	-26.9	-1.3049 ug/L	-1.3049 ppb	17:29:02
3	P 214.914†	219.3	-51.2	-50.866 ug/L	-50.866 ppb	17:29:02
3	Pb 220.353†	-67.5	11.9	2.8119 ug/L	2.8119 ppb	17:29:02
3	S 181.975 Axial†	31.2	-12.1	-29.803 ug/L	-29.803 ppb	17:29:02
3	Sb 206.836†	34.1	-13.1	-7.9850 ug/L	-7.9850 ppb	17:29:02
3	Se 196.026†	-24.8	7.1	8.1411 ug/L	8.1411 ppb	17:29:02
3	Si 251.611†	517.4	-204.8	-11.478 ug/L	-11.478 ppb	17:29:02
3	Sn 189.927†	12.6	-1.3	-0.4585 ug/L	-0.4585 ppb	17:29:02
3	Ti 334.940†	-1418.0	378.5	0.9802 ug/L	0.9802 ppb	17:28:42
3	Tl 190.801†	-30.9	4.1	2.3491 ug/L	2.3491 ppb	17:29:02
3	U 409.014†	-2471.7	901.9	49.467 ug/L	49.467 ppb	17:28:42
3	V 292.402†	-1714.3	311.7	4.2426 ug/L	4.2426 ppb	17:28:42
3	Zn 213.857†	591.9	-212.0	-3.7402 ug/L	-3.7402 ppb	17:29:02
3	SiO2†	537.6	-190.3	-22.787 ug/L	-22.787 ppb	17:29:17

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	666772.8	134.52 %	2.858			2.12%
Sc Radial	3875.9	123 %	5.6			4.53%
Y 371.029	520848.2	125.84 %	2.574			2.05%
Y RADIAL	4205.7	122.5 %	6.29			5.13%
Ag 328.068†	-24.1	-0.2290 ug/L	0.72659	-0.2290 ppb	0.72659	317.33%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	4.3	5.5537 ug/L	23.63233	5.5537 ppb	23.63233	425.53%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.6	2.0474 ug/L	5.11848	2.0474 ppb	5.11848	250.00%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	40.6	1.5710 ug/L	0.38833	1.5710 ppb	0.38833	24.72%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	0.3	0.0141 ug/L	0.05366	0.0141 ppb	0.05366	379.29%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	544.9	0.3382 ug/L	0.02321	0.3382 ppb	0.02321	6.86%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-8.6	-20.319 ug/L	3.0388	-20.319 ppb	3.0388	14.96%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd 226.502†	50.1	1.1368 ug/L	0.15973	1.1368 ppb	0.15973	14.05%			
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co 228.616†	10.0	0.3671 ug/L	0.26549	0.3671 ppb	0.26549	72.33%			
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr 267.716†	-15.2	-0.3524 ug/L	0.18645	-0.3524 ppb	0.18645	52.90%			
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu 324.752†	-1172.3	-6.0515 ug/L	0.35245	-6.0515 ppb	0.35245	5.82%			
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe 238.204 Radial†	-0.8	-13.645 ug/L	8.6901	-13.645 ppb	8.6901	63.69%			
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K 766.490 Radial†	-550.0	-137.99 ug/L	25.614	-137.99 ppb	25.614	18.56%			
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg 279.077 IEC†	0.1	3.4959 ug/L	59.88671	3.4959 ppb	59.88671	>999.9%			
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn 257.610†	-101.5	-0.1990 ug/L	0.04603	-0.1990 ppb	0.04603	23.13%			
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo 202.031†	5.7	0.7981 ug/L	0.79649	0.7981 ppb	0.79649	99.79%			
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na 589.592 Radial†	139.5	79.365 ug/L	34.3187	79.365 ppb	34.3187	43.24%			
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni 231.604†	-30.0	-1.4562 ug/L	0.13954	-1.4562 ppb	0.13954	9.58%			
QC value within limits for Ni 231.604 Recovery = Not calculated									
P 214.914†	-49.0	-48.601 ug/L	5.7497	-48.601 ppb	5.7497	11.83%			
QC value within limits for P 214.914 Recovery = Not calculated									
Pb 220.353†	4.3	1.0289 ug/L	1.76425	1.0289 ppb	1.76425	171.48%			
QC value within limits for Pb 220.353 Recovery = Not calculated									
S 181.975 Axial†	-7.7	-18.926 ug/L	9.8593	-18.926 ppb	9.8593	52.09%			
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb 206.836†	-9.2	-5.6201 ug/L	2.55926	-5.6201 ppb	2.55926	45.54%			
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se 196.026†	6.6	7.5745 ug/L	1.79252	7.5745 ppb	1.79252	23.67%			
QC value within limits for Se 196.026 Recovery = Not calculated									
Si 251.611†	-216.5	-12.125 ug/L	0.6126	-12.125 ppb	0.6126	5.05%			
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn 189.927†	-2.1	-0.7202 ug/L	0.95329	-0.7202 ppb	0.95329	132.37%			
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr 421.552†	-7.5	-0.0955 ug/L	0.12128	-0.0955 ppb	0.12128	126.95%			
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti 334.940†	374.1	0.9694 ug/L	0.08056	0.9694 ppb	0.08056	8.31%			
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl 190.801†	3.1	1.7886 ug/L	1.13792	1.7886 ppb	1.13792	63.62%			
QC value within limits for Tl 190.801 Recovery = Not calculated									
U 409.014†	960.1	52.658 ug/L	4.9087	52.658 ppb	4.9087	9.32%			
QC value greater than the upper limit for U 409.014 Recovery = Not calculated									
V 292.402†	338.6	4.5948 ug/L	0.31749	4.5948 ppb	0.31749	6.91%			
QC value within limits for V 292.402 Recovery = Not calculated									
Zn 213.857†	-213.2	-3.7611 ug/L	0.16934	-3.7611 ppb	0.16934	4.50%			
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†	-188.7	-22.576 ug/L	1.3135	-22.576 ppb	1.3135	5.82%			
QC value within limits for SiO2 Recovery = Not calculated									
QC Failed. Continue with analysis.									

=====
Analysis Begun

Start Time: 3/29/2010 17:50:50

Plasma On Time: 3/29/2010 14:10:41

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\032910.sif

Batch ID:

Results Data Set: 032910A

Results Library: C:\pe\Optima3\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 1

Sample ID: CCV

Date Collected: 3/29/2010 17:50:52

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	3983.6	3983.6	127 %		17:52:44
1	Y RADIAL	4269.6	4269.6	124.4 %		17:52:44
1	Al 396.153Radial†	4183.7	3389.5	4433.6 ug/L	4433.6 ppb	17:52:44
1	Ca 317.933Radial†	2542.1	1988.1	4692.5 ug/L	4692.5 ppb	17:53:04
1	Fe 238.204 Radial†	396.6	306.6	5029.2 ug/L	5029.2 ppb	17:53:04
1	K 766.490 Radial†	27263.6	18692.1	4682.5 ug/L	4682.5 ppb	17:52:44
1	Mg 279.077 IEC†	123.4	96.0	5066.0 ug/L	5066.0 ppb	17:53:04
1	Na 589.592 Radial†	20997.1	17178.5	9774.5 ug/L	9774.5 ppb	17:52:44
1	Sr 421.552†	48344.9	38121.8	485.25 ug/L	485.25 ppb	17:52:44
1	Sc 361.383	669987.8	669987.8	135.17 %		17:54:01
1	Y 371.029	434842.4	434842.4	105.06 %		17:54:06
1	Ag 328.068†	82489.8	60904.9	508.63 ug/L	508.63 ppb	17:54:06
1	As 188.979†	851.3	652.4	512.02 ug/L	512.02 ppb	17:54:26
1	B 249.677†	17266.0	13181.2	506.89 ug/L	506.89 ppb	17:54:06
1	Ba 233.527†	47650.2	35258.9	509.32 ug/L	509.32 ppb	17:54:06
1	Be 313.107†	1101718.9	818933.6	506.05 ug/L	506.05 ppb	17:54:01
1	Cd 226.502†	30866.6	23037.7	517.67 ug/L	517.67 ppb	17:54:06
1	Co 228.616†	18895.8	14036.7	516.14 ug/L	516.14 ppb	17:54:06
1	Cr 267.716†	30743.0	22667.2	504.33 ug/L	504.33 ppb	17:54:06
1	Cu 324.752†	139318.2	97843.3	502.57 ug/L	502.57 ppb	17:54:06
1	Mn 257.610†	350954.1	259211.0	504.85 ug/L	504.85 ppb	17:54:06
1	Mo 202.031†	4758.3	3514.5	492.71 ug/L	492.71 ppb	17:54:26
1	Ni 231.604†	14303.6	10504.9	509.21 ug/L	509.21 ppb	17:54:06
1	P 214.914†	3646.7	2483.5	2425.6 ug/L	2425.6 ppb	17:54:26
1	Pb 220.353†	2758.7	2102.9	495.53 ug/L	495.53 ppb	17:54:26
1	S 181.975 Axial†	624.2	426.4	1047.3 ug/L	1047.3 ppb	17:54:26
1	Sb 206.836†	1150.4	812.6	512.96 ug/L	512.96 ppb	17:54:26
1	Se 196.026†	569.5	446.8	533.04 ug/L	533.04 ppb	17:54:26
1	Si 251.611†	63530.6	46409.9	2591.0 ug/L	2591.0 ppb	17:54:06
1	Sn 189.927†	1959.2	1438.7	496.51 ug/L	496.51 ppb	17:54:26
1	Ti 334.940†	252026.6	187880.2	499.73 ug/L	499.73 ppb	17:54:06
1	Tl 190.801†	1137.9	868.9	500.76 ug/L	500.76 ppb	17:54:26
1	U 409.014†	9403.3	9696.3	530.08 ug/L	530.08 ppb	17:54:06
1	V 292.402†	49396.1	38129.3	511.26 ug/L	511.26 ppb	17:54:06
1	Zn 213.857†	40243.7	29119.8	511.60 ug/L	511.60 ppb	17:54:06
1	SiO2†	63703.0	46537.0	5549.6 ug/L	5549.6 ppb	17:55:33
2	Sc Radial	4024.6	4024.6	128 %		17:53:09
2	Y RADIAL	4306.1	4306.1	125.5 %		17:53:09
2	Al 396.153Radial†	4328.4	3469.0	4537.7 ug/L	4537.7 ppb	17:53:09
2	Ca 317.933Radial†	2536.5	1963.3	4633.9 ug/L	4633.9 ppb	17:53:29
2	Fe 238.204 Radial†	397.6	304.2	4990.1 ug/L	4990.1 ppb	17:53:29
2	K 766.490 Radial†	27821.6	18909.1	4736.9 ug/L	4736.9 ppb	17:53:09
2	Mg 279.077 IEC†	123.7	95.2	5023.9 ug/L	5023.9 ppb	17:53:29
2	Na 589.592 Radial†	21429.8	17348.0	9870.9 ug/L	9870.9 ppb	17:53:09
2	Sr 421.552†	49586.7	38703.7	492.66 ug/L	492.66 ppb	17:53:09
2	Sc 361.383	672469.5	672469.5	135.67 %		17:54:31
2	Y 371.029	434348.8	434348.8	104.94 %		17:54:37

2	Ag 328.068†	82353.3	60579.1	505.90 ug/L	505.90 ppb	17:54:37
2	As 188.979†	887.8	676.9	531.07 ug/L	531.07 ppb	17:54:57
2	B 249.677†	17238.8	13114.0	504.32 ug/L	504.32 ppb	17:54:37
2	Ba 233.527†	47231.3	34820.1	502.98 ug/L	502.98 ppb	17:54:37
2	Be 313.107†	1108347.9	820811.8	507.20 ug/L	507.20 ppb	17:54:31
2	Cd 226.502†	30582.6	22744.1	511.07 ug/L	511.07 ppb	17:54:37
2	Co 228.616†	18724.9	13859.1	509.64 ug/L	509.64 ppb	17:54:37
2	Cr 267.716†	30624.3	22495.7	500.52 ug/L	500.52 ppb	17:54:37
2	Cu 324.752†	139002.9	97230.5	499.42 ug/L	499.42 ppb	17:54:37
2	Mn 257.610†	347977.5	256059.0	498.71 ug/L	498.71 ppb	17:54:37
2	Mo 202.031†	4853.4	3571.6	500.70 ug/L	500.70 ppb	17:54:57
2	Ni 231.604†	14205.4	10393.4	503.81 ug/L	503.81 ppb	17:54:37
2	P 214.914†	3741.2	2543.2	2487.1 ug/L	2487.1 ppb	17:54:57
2	Pb 220.353†	2843.9	2158.2	508.56 ug/L	508.56 ppb	17:54:57
2	S 181.975 Axial†	638.0	434.9	1068.2 ug/L	1068.2 ppb	17:54:57
2	Sb 206.836†	1177.5	829.4	523.52 ug/L	523.52 ppb	17:54:57
2	Se 196.026†	587.7	458.7	546.67 ug/L	546.67 ppb	17:54:57
2	Si 251.611†	62976.9	45828.3	2558.4 ug/L	2558.4 ppb	17:54:37
2	Sn 189.927†	2001.6	1464.7	505.42 ug/L	505.42 ppb	17:54:57
2	Ti 334.940†	250767.5	186264.0	495.43 ug/L	495.43 ppb	17:54:37
2	Tl 190.801†	1160.4	882.4	508.46 ug/L	508.46 ppb	17:54:57
2	U 409.014†	9324.6	9612.6	525.51 ug/L	525.51 ppb	17:54:37
2	V 292.402†	49198.6	37848.8	507.66 ug/L	507.66 ppb	17:54:37
2	Zn 213.857†	39904.6	28760.1	505.26 ug/L	505.26 ppb	17:54:37
2	SiO2†	64185.9	46719.0	5571.1 ug/L	5571.1 ppb	17:55:38
3	Sc Radial	3847.0	3847.0	122 %		17:53:34
3	Y RADIAL	4116.0	4116.0	119.9 %		17:53:34
3	Al 396.153Radial†	4147.7	3477.4	4550.1 ug/L	4550.1 ppb	17:53:34
3	Ca 317.933Radial†	2513.9	2036.3	4806.3 ug/L	4806.3 ppb	17:53:54
3	Fe 238.204 Radial†	394.1	315.7	5176.6 ug/L	5176.6 ppb	17:53:54
3	K 766.490 Radial†	26811.4	19086.7	4781.4 ug/L	4781.4 ppb	17:53:34
3	Mg 279.077 IEC†	121.2	97.6	5150.5 ug/L	5150.5 ppb	17:53:54
3	Na 589.592 Radial†	20395.0	17275.0	9829.3 ug/L	9829.3 ppb	17:53:34
3	Sr 421.552†	47339.7	38655.3	492.05 ug/L	492.05 ppb	17:53:34
3	Sc 361.383	696558.8	696558.8	140.53 %		17:55:02
3	Y 371.029	435198.3	435198.3	105.15 %		17:55:07
3	Ag 328.068†	83130.4	59032.8	493.07 ug/L	493.07 ppb	17:55:07
3	As 188.979†	862.9	636.6	499.69 ug/L	499.69 ppb	17:55:27
3	B 249.677†	17538.4	12887.8	495.58 ug/L	495.58 ppb	17:55:07
3	Ba 233.527†	47826.9	34040.0	491.72 ug/L	491.72 ppb	17:55:07
3	Be 313.107†	1144375.4	818196.1	505.56 ug/L	505.56 ppb	17:55:02
3	Cd 226.502†	30933.3	22214.1	499.13 ug/L	499.13 ppb	17:55:07
3	Co 228.616†	18951.7	13543.3	497.98 ug/L	497.98 ppb	17:55:07
3	Cr 267.716†	30982.9	21970.3	488.85 ug/L	488.85 ppb	17:55:07
3	Cu 324.752†	140858.5	95007.7	488.01 ug/L	488.01 ppb	17:55:07
3	Mn 257.610†	352211.3	250201.6	487.32 ug/L	487.32 ppb	17:55:07
3	Mo 202.031†	4759.2	3381.0	474.01 ug/L	474.01 ppb	17:55:27
3	Ni 231.604†	14390.7	10163.2	492.65 ug/L	492.65 ppb	17:55:07
3	P 214.914†	3672.6	2399.0	2342.5 ug/L	2342.5 ppb	17:55:27
3	Pb 220.353†	2815.3	2065.3	486.68 ug/L	486.68 ppb	17:55:27
3	S 181.975 Axial†	623.6	408.4	1003.0 ug/L	1003.0 ppb	17:55:27
3	Sb 206.836†	1193.0	810.4	511.08 ug/L	511.08 ppb	17:55:27
3	Se 196.026†	571.3	432.0	516.25 ug/L	516.25 ppb	17:55:27
3	Si 251.611†	63795.2	44805.4	2501.5 ug/L	2501.5 ppb	17:55:07
3	Sn 189.927†	1982.9	1400.3	483.34 ug/L	483.34 ppb	17:55:27
3	Ti 334.940†	253734.6	181983.3	484.06 ug/L	484.06 ppb	17:55:07
3	Tl 190.801†	1148.6	844.4	486.63 ug/L	486.63 ppb	17:55:27
3	U 409.014†	9588.7	9562.9	522.79 ug/L	522.79 ppb	17:55:07
3	V 292.402†	49661.9	36924.4	495.04 ug/L	495.04 ppb	17:55:07
3	Zn 213.857†	40427.7	28115.1	493.89 ug/L	493.89 ppb	17:55:07
3	SiO2†	62505.9	43887.5	5233.4 ug/L	5233.4 ppb	17:55:43

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	679672.0	137.13 %	2.961			2.16%
Sc Radial	3951.7	126 %	3.0			2.35%
Y 371.029	434796.5	105.05 %	0.103			0.10%
Y RADIAL	4230.6	123.3 %	2.94			2.39%
Ag 328.068†	60172.2	502.53 ug/L	8.305	502.53 ppb	8.305	1.65%

QC value within limits for Ag 328.068 Recovery = 100.51%					
Al 396.153Radial†	3445.3	4507.1 ug/L	63.99	4507.1 ppb	63.99 1.42%
QC value within limits for Al 396.153Radial Recovery = 90.14%					
As 188.979†	655.3	514.26 ug/L	15.810	514.26 ppb	15.810 3.07%
QC value within limits for As 188.979 Recovery = 102.85%					
B 249.677†	13061.0	502.26 ug/L	5.928	502.26 ppb	5.928 1.18%
QC value within limits for B 249.677 Recovery = 100.45%					
Ba 233.527†	34706.4	501.34 ug/L	8.911	501.34 ppb	8.911 1.78%
QC value within limits for Ba 233.527 Recovery = 100.27%					
Be 313.107†	819313.9	506.27 ug/L	0.841	506.27 ppb	0.841 0.17%
QC value within limits for Be 313.107 Recovery = 101.25%					
Ca 317.933Radial†	1995.9	4710.9 ug/L	87.62	4710.9 ppb	87.62 1.86%
QC value within limits for Ca 317.933Radial Recovery = 94.22%					
Cd 226.502†	22665.3	509.29 ug/L	9.396	509.29 ppb	9.396 1.84%
QC value within limits for Cd 226.502 Recovery = 101.86%					
Co 228.616†	13813.0	507.92 ug/L	9.200	507.92 ppb	9.200 1.81%
QC value within limits for Co 228.616 Recovery = 101.58%					
Cr 267.716†	22377.7	497.90 ug/L	8.063	497.90 ppb	8.063 1.62%
QC value within limits for Cr 267.716 Recovery = 99.58%					
Cu 324.752†	96693.8	496.67 ug/L	7.657	496.67 ppb	7.657 1.54%
QC value within limits for Cu 324.752 Recovery = 99.33%					
Fe 238.204 Radial†	308.8	5065.3 ug/L	98.34	5065.3 ppb	98.34 1.94%
QC value within limits for Fe 238.204 Radial Recovery = 101.31%					
K 766.490 Radial†	18895.9	4733.6 ug/L	49.56	4733.6 ppb	49.56 1.05%
QC value within limits for K 766.490 Radial Recovery = 94.67%					
Mg 279.077 IEC†	96.2	5080.1 ug/L	64.46	5080.1 ppb	64.46 1.27%
QC value within limits for Mg 279.077 IEC Recovery = 101.60%					
Mn 257.610†	255157.2	496.96 ug/L	8.893	496.96 ppb	8.893 1.79%
QC value within limits for Mn 257.610 Recovery = 99.39%					
Mo 202.031†	3489.0	489.14 ug/L	13.700	489.14 ppb	13.700 2.80%
QC value within limits for Mo 202.031 Recovery = 97.83%					
Na 589.592 Radial†	17267.1	9824.9 ug/L	48.36	9824.9 ppb	48.36 0.49%
QC value within limits for Na 589.592 Radial Recovery = 98.25%					
Ni 231.604†	10353.8	501.89 ug/L	8.446	501.89 ppb	8.446 1.68%
QC value within limits for Ni 231.604 Recovery = 100.38%					
P 214.914†	2475.2	2418.4 ug/L	72.57	2418.4 ppb	72.57 3.00%
QC value within limits for P 214.914 Recovery = 96.74%					
Pb 220.353†	2108.8	496.92 ug/L	11.003	496.92 ppb	11.003 2.21%
QC value within limits for Pb 220.353 Recovery = 99.38%					
S 181.975 Axial†	423.3	1039.5 ug/L	33.32	1039.5 ppb	33.32 3.21%
QC value within limits for S 181.975 Axial Recovery = 103.95%					
Sb 206.836†	817.5	515.85 ug/L	6.708	515.85 ppb	6.708 1.30%
QC value within limits for Sb 206.836 Recovery = 103.17%					
Se 196.026†	445.8	531.99 ug/L	15.237	531.99 ppb	15.237 2.86%
QC value within limits for Se 196.026 Recovery = 106.40%					
Si 251.611†	45681.2	2550.3 ug/L	45.32	2550.3 ppb	45.32 1.78%
QC value within limits for Si 251.611 Recovery = 102.01%					
Sn 189.927†	1434.6	495.09 ug/L	11.108	495.09 ppb	11.108 2.24%
QC value within limits for Sn 189.927 Recovery = 99.02%					
Sr 421.552†	38493.6	489.99 ug/L	4.111	489.99 ppb	4.111 0.84%
QC value within limits for Sr 421.552 Recovery = 98.00%					
Ti 334.940†	185375.8	493.08 ug/L	8.098	493.08 ppb	8.098 1.64%
QC value within limits for Ti 334.940 Recovery = 98.62%					
Tl 190.801†	865.2	498.61 ug/L	11.072	498.61 ppb	11.072 2.22%
QC value within limits for Tl 190.801 Recovery = 99.72%					
U 409.014†	9624.0	526.13 ug/L	3.688	526.13 ppb	3.688 0.70%
QC value within limits for U 409.014 Recovery = 105.23%					
V 292.402†	37634.2	504.65 ug/L	8.519	504.65 ppb	8.519 1.69%
QC value within limits for V 292.402 Recovery = 100.93%					
Zn 213.857†	28665.0	503.58 ug/L	8.974	503.58 ppb	8.974 1.78%
QC value within limits for Zn 213.857 Recovery = 100.72%					
SiO2†	45714.5	5451.3 ug/L	189.09	5451.3 ppb	189.09 3.47%
QC value within limits for SiO2 Recovery = 101.94%					
All analyte(s) passed QC.					

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/29/2010 17:57:52

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	3996.9	3996.9	127 %		17:59:44
1	Y RADIAL	4305.0	4305.0	125.4 %		17:59:44
1	Al 396.153Radial†	-92.0	15.4	20.224 ug/L	20.224 ppb	18:00:04
1	Ca 317.933Radial†	17.6	-4.3	-10.076 ug/L	-10.076 ppb	18:00:04
1	Fe 238.204 Radial†	7.7	-0.3	-5.3114 ug/L	-5.3114 ppb	18:00:04
1	K 766.490 Radial†	2719.7	-685.2	-171.89 ug/L	-171.89 ppb	17:59:44
1	Mg 279.077 IEC†	2.3	0.4	19.566 ug/L	19.566 ppb	18:00:04
1	Na 589.592 Radial†	-645.7	99.6	56.698 ug/L	56.698 ppb	17:59:44
1	Sr 421.552†	-3.8	-35.3	-0.4487 ug/L	-0.4487 ppb	17:59:44
1	Sc 361.383	666110.3	666110.3	134.39 %		18:01:01
1	Y 371.029	519856.7	519856.7	125.60 %		18:01:01
1	Ag 328.068†	72.0	-66.8	-0.5794 ug/L	-0.5794 ppb	18:01:01
1	As 188.979†	-22.0	6.2	4.8616 ug/L	4.8616 ppb	18:01:21
1	B 249.677†	-485.2	46.9	1.8114 ug/L	1.8114 ppb	18:01:21
1	Ba 233.527†	-8.3	1.5	0.0303 ug/L	0.0303 ppb	18:01:21
1	Be 313.107†	-4513.5	532.1	0.3305 ug/L	0.3305 ppb	18:01:01
1	Cd 226.502†	-203.5	51.4	1.1638 ug/L	1.1638 ppb	18:01:21
1	Co 228.616†	-73.2	3.3	0.1193 ug/L	0.1193 ppb	18:01:21
1	Cr 267.716†	89.9	-9.3	-0.2211 ug/L	-0.2211 ppb	18:01:21
1	Cu 324.752†	5399.6	-1205.4	-6.2185 ug/L	-6.2185 ppb	18:01:01
1	Mn 257.610†	395.1	-128.1	-0.2507 ug/L	-0.2507 ppb	18:01:21
1	Mo 202.031†	12.5	3.7	0.5170 ug/L	0.5170 ppb	18:01:21
1	Ni 231.604†	57.5	-34.1	-1.6519 ug/L	-1.6519 ppb	18:01:21
1	P 214.914†	222.8	-48.5	-48.078 ug/L	-48.078 ppb	18:01:21
1	Pb 220.353†	-73.0	7.8	1.8353 ug/L	1.8353 ppb	18:01:21
1	S 181.975 Axial†	33.1	-10.7	-26.274 ug/L	-26.274 ppb	18:01:21
1	Sb 206.836†	39.8	-8.9	-5.3686 ug/L	-5.3686 ppb	18:01:21
1	Se 196.026†	-21.1	9.8	11.341 ug/L	11.341 ppb	18:01:21
1	Si 251.611†	491.6	-223.7	-12.527 ug/L	-12.527 ppb	18:01:21
1	Sn 189.927†	17.3	2.2	0.7480 ug/L	0.7480 ppb	18:01:21
1	Ti 334.940†	-1396.5	393.7	1.0240 ug/L	1.0240 ppb	18:01:01
1	Tl 190.801†	-31.9	3.3	1.9122 ug/L	1.9122 ppb	18:01:21
1	U 409.014†	-2525.0	861.0	47.220 ug/L	47.220 ppb	18:01:01
1	V 292.402†	-1742.5	289.8	3.9338 ug/L	3.9338 ppb	18:01:01
1	Zn 213.857†	590.4	-212.8	-3.7539 ug/L	-3.7539 ppb	18:01:21
1	SiO2†	469.0	-241.0	-28.828 ug/L	-28.828 ppb	18:02:17
2	Sc Radial	3842.3	3842.3	122 %		18:00:09
2	Y RADIAL	4157.1	4157.1	121.1 %		18:00:09
2	Al 396.153Radial†	-96.4	8.8	11.594 ug/L	11.594 ppb	18:00:29
2	Ca 317.933Radial†	10.9	-9.2	-21.670 ug/L	-21.670 ppb	18:00:29
2	Fe 238.204 Radial†	8.3	0.4	5.8747 ug/L	5.8747 ppb	18:00:29
2	K 766.490 Radial†	2883.4	-465.3	-116.73 ug/L	-116.73 ppb	18:00:09
2	Mg 279.077 IEC†	1.2	-0.5	-26.862 ug/L	-26.862 ppb	18:00:29
2	Na 589.592 Radial†	-560.9	148.6	84.548 ug/L	84.548 ppb	18:00:09
2	Sr 421.552†	26.3	-10.7	-0.1367 ug/L	-0.1367 ppb	18:00:09
2	Sc 361.383	647507.6	647507.6	130.64 %		18:01:26
2	Y 371.029	506511.1	506511.1	122.37 %		18:01:26
2	Ag 328.068†	131.0	-20.2	-0.1876 ug/L	-0.1876 ppb	18:01:26
2	As 188.979†	-29.9	-0.3	-0.2044 ug/L	-0.2044 ppb	18:01:46
2	B 249.677†	-471.8	46.8	1.8064 ug/L	1.8064 ppb	18:01:46
2	Ba 233.527†	-15.4	-4.1	-0.0491 ug/L	-0.0491 ppb	18:01:46
2	Be 313.107†	-4450.9	483.6	0.3005 ug/L	0.3005 ppb	18:01:26
2	Cd 226.502†	-207.1	44.3	1.0030 ug/L	1.0030 ppb	18:01:46
2	Co 228.616†	-67.9	5.8	0.2118 ug/L	0.2118 ppb	18:01:46
2	Cr 267.716†	75.6	-18.4	-0.4206 ug/L	-0.4206 ppb	18:01:46
2	Cu 324.752†	5339.6	-1135.9	-5.8619 ug/L	-5.8619 ppb	18:01:26
2	Mn 257.610†	421.8	-99.2	-0.1914 ug/L	-0.1914 ppb	18:01:46
2	Mo 202.031†	15.4	6.2	0.8633 ug/L	0.8633 ppb	18:01:46
2	Ni 231.604†	64.4	-27.5	-1.3351 ug/L	-1.3351 ppb	18:01:46

2	P 214.914†	228.2	-39.6	-39.099 ug/L	-39.099 ppb	18:01:46
2	Pb 220.353†	-86.7	-4.3	-1.0035 ug/L	-1.0035 ppb	18:01:46
2	S 181.975 Axial†	40.1	-4.7	-11.461 ug/L	-11.461 ppb	18:01:46
2	Sb 206.836†	31.9	-14.1	-8.6128 ug/L	-8.6128 ppb	18:01:46
2	Se 196.026†	-22.8	8.0	9.3299 ug/L	9.3299 ppb	18:01:46
2	Si 251.611†	498.7	-207.8	-11.638 ug/L	-11.638 ppb	18:01:46
2	Sn 189.927†	4.0	-7.6	-2.6078 ug/L	-2.6078 ppb	18:01:46
2	Ti 334.940†	-1366.6	386.8	1.0072 ug/L	1.0072 ppb	18:01:26
2	Tl 190.801†	-44.6	-7.1	-4.0414 ug/L	-4.0414 ppb	18:01:46
2	U 409.014†	-2413.1	892.6	48.956 ug/L	48.956 ppb	18:01:26
2	V 292.402†	-1640.3	330.8	4.4815 ug/L	4.4815 ppb	18:01:26
2	Zn 213.857†	589.8	-200.7	-3.5422 ug/L	-3.5422 ppb	18:01:46
2	SiO2†	578.2	-147.4	-17.641 ug/L	-17.641 ppb	18:02:22
3	Sc Radial	3871.6	3871.6	123 %		18:00:34
3	Y RADIAL	4205.3	4205.3	122.5 %		18:00:34
3	Al 396.153Radial†	-86.3	17.7	23.294 ug/L	23.294 ppb	18:00:54
3	Ca 317.933Radial†	11.8	-8.6	-20.243 ug/L	-20.243 ppb	18:00:54
3	Fe 238.204 Radial†	8.0	0.1	0.9454 ug/L	0.9454 ppb	18:00:54
3	K 766.490 Radial†	2876.4	-488.8	-122.62 ug/L	-122.62 ppb	18:00:34
3	Mg 279.077 IEC†	0.0	-1.5	-76.844 ug/L	-76.844 ppb	18:00:54
3	Na 589.592 Radial†	-585.1	132.4	75.332 ug/L	75.332 ppb	18:00:34
3	Sr 421.552†	22.5	-14.0	-0.1775 ug/L	-0.1775 ppb	18:00:34
3	Sc 361.383	654715.5	654715.5	132.09 %		18:01:51
3	Y 371.029	512333.0	512333.0	123.78 %		18:01:51
3	Ag 328.068†	87.8	-54.0	-0.4701 ug/L	-0.4701 ppb	18:01:51
3	As 188.979†	-19.5	7.9	6.1426 ug/L	6.1426 ppb	18:02:11
3	B 249.677†	-520.3	14.1	0.5424 ug/L	0.5424 ppb	18:02:11
3	Ba 233.527†	6.9	13.0	0.1975 ug/L	0.1975 ppb	18:02:11
3	Be 313.107†	-4435.0	533.1	0.3309 ug/L	0.3309 ppb	18:01:51
3	Cd 226.502†	-203.8	48.5	1.0994 ug/L	1.0994 ppb	18:02:11
3	Co 228.616†	-63.9	9.4	0.3432 ug/L	0.3432 ppb	18:02:11
3	Cr 267.716†	80.9	-15.0	-0.3474 ug/L	-0.3474 ppb	18:02:11
3	Cu 324.752†	5293.7	-1215.7	-6.2734 ug/L	-6.2734 ppb	18:01:51
3	Mn 257.610†	414.1	-108.6	-0.2081 ug/L	-0.2081 ppb	18:02:11
3	Mo 202.031†	5.0	-1.8	-0.2512 ug/L	-0.2512 ppb	18:02:11
3	Ni 231.604†	81.5	-15.1	-0.7333 ug/L	-0.7333 ppb	18:02:11
3	P 214.914†	212.9	-53.1	-52.736 ug/L	-52.736 ppb	18:02:11
3	Pb 220.353†	-69.2	9.7	2.2781 ug/L	2.2781 ppb	18:02:11
3	S 181.975 Axial†	41.0	-4.2	-10.449 ug/L	-10.449 ppb	18:02:11
3	Sb 206.836†	38.1	-9.6	-5.8842 ug/L	-5.8842 ppb	18:02:11
3	Se 196.026†	-26.2	5.6	6.5327 ug/L	6.5327 ppb	18:02:11
3	Si 251.611†	516.0	-198.9	-11.127 ug/L	-11.127 ppb	18:02:11
3	Sn 189.927†	8.4	-4.3	-1.4894 ug/L	-1.4894 ppb	18:02:11
3	Ti 334.940†	-1415.7	361.1	0.9418 ug/L	0.9418 ppb	18:01:51
3	Tl 190.801†	-39.9	-3.1	-1.8017 ug/L	-1.8017 ppb	18:02:11
3	U 409.014†	-2369.9	945.7	51.866 ug/L	51.866 ppb	18:01:51
3	V 292.402†	-1609.6	367.8	4.9612 ug/L	4.9612 ppb	18:01:51
3	Zn 213.857†	591.5	-204.3	-3.6094 ug/L	-3.6094 ppb	18:02:11
3	SiO2†	508.5	-205.0	-24.502 ug/L	-24.502 ppb	18:02:27

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	656111.2	132.37 %	1.892			1.43%
Sc Radial	3903.6	124 %	2.6			2.10%
Y 371.029	512900.3	123.92 %	1.617			1.30%
Y RADIAL	4222.5	123.0 %	2.20			1.79%
Ag 328.068†	-47.0	-0.4124 ug/L	0.20216	-0.4124 ppb	0.20216	49.02%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	14.0	18.371 ug/L	6.0662	18.371 ppb	6.0662	33.02%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	4.6	3.5999 ug/L	3.35631	3.5999 ppb	3.35631	93.23%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	35.9	1.3868 ug/L	0.73123	1.3868 ppb	0.73123	52.73%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.5	0.0596 ug/L	0.12591	0.0596 ppb	0.12591	211.35%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	516.3	0.3206 ug/L	0.01742	0.3206 ppb	0.01742	5.43%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-7.3	-17.330 ug/L	6.3226	-17.330 ppb	6.3226	36.48%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	48.1	1.0887 ug/L	0.08093	1.0887 ppb	0.08093	7.43%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	6.1	0.2248 ug/L	0.11249	0.2248 ppb	0.11249	50.04%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	-14.2	-0.3297 ug/L	0.10093	-0.3297 ppb	0.10093	30.61%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-1185.7	-6.1179 ug/L	0.22345	-6.1179 ppb	0.22345	3.65%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	0.0	0.5029 ug/L	5.60618	0.5029 ppb	5.60618	>999.9%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	-546.4	-137.08 ug/L	30.291	-137.08 ppb	30.291	22.10%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-0.5	-28.047 ug/L	48.2160	-28.047 ppb	48.2160	171.91%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-112.0	-0.2167 ug/L	0.03056	-0.2167 ppb	0.03056	14.10%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	2.7	0.3764 ug/L	0.57040	0.3764 ppb	0.57040	151.56%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	126.9	72.193 ug/L	14.1876	72.193 ppb	14.1876	19.65%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-25.6	-1.2401 ug/L	0.46658	-1.2401 ppb	0.46658	37.62%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	-47.1	-46.638 ug/L	6.9315	-46.638 ppb	6.9315	14.86%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	4.4	1.0366 ug/L	1.78061	1.0366 ppb	1.78061	171.77%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	-6.5	-16.061 ug/L	8.8591	-16.061 ppb	8.8591	55.16%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	-10.9	-6.6219 ug/L	1.74332	-6.6219 ppb	1.74332	26.33%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	7.8	9.0678 ug/L	2.41475	9.0678 ppb	2.41475	26.63%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	-210.1	-11.764 ug/L	0.7083	-11.764 ppb	0.7083	6.02%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	-3.2	-1.1164 ug/L	1.70869	-1.1164 ppb	1.70869	153.05%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-20.0	-0.2543 ug/L	0.16961	-0.2543 ppb	0.16961	66.70%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	380.5	0.9910 ug/L	0.04343	0.9910 ppb	0.04343	4.38%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	-2.3	-1.3103 ug/L	3.00708	-1.3103 ppb	3.00708	229.50%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	899.8	49.347 ug/L	2.3476	49.347 ppb	2.3476	4.76%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	329.5	4.4589 ug/L	0.51409	4.4589 ppb	0.51409	11.53%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	-205.9	-3.6352 ug/L	0.10818	-3.6352 ppb	0.10818	2.98%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		-197.8	-23.657 ug/L	5.6410	-23.657 ppb	5.6410	23.85%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Sequence No.: 12

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/29/2010 19:07:03

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	3922.9	3922.9	125 %		19:09:15
1	Y RADIAL	4311.9	4311.9	125.6 %		19:08:55
1	Al 396.153Radial†	4268.6	3508.7	4590.6 ug/L	4590.6 ppb	19:08:55
1	Ca 317.933Radial†	2547.7	2023.7	4776.4 ug/L	4776.4 ppb	19:09:15
1	Fe 238.204 Radial†	396.5	311.3	5106.0 ug/L	5106.0 ppb	19:09:15
1	K 766.490 Radial†	27514.9	19226.4	4816.4 ug/L	4816.4 ppb	19:08:55
1	Mg 279.077 IEC†	122.0	96.3	5082.9 ug/L	5082.9 ppb	19:09:15
1	Na 589.592 Radial†	21154.4	17561.0	9992.1 ug/L	9992.1 ppb	19:08:55
1	Sr 421.552†	49475.3	39618.1	504.30 ug/L	504.30 ppb	19:08:55
1	Sc 361.383	692944.2	692944.2	139.80 %		19:10:12
1	Y 371.029	439881.9	439881.9	106.28 %		19:10:17
1	Ag 328.068†	84774.4	60517.3	505.42 ug/L	505.42 ppb	19:10:17
1	As 188.979†	874.0	647.7	508.41 ug/L	508.41 ppb	19:10:37
1	B 249.677†	17778.9	13124.9	504.72 ug/L	504.72 ppb	19:10:17
1	Ba 233.527†	48635.1	34795.6	502.63 ug/L	502.63 ppb	19:10:17
1	Be 313.107†	1126864.8	809918.8	500.48 ug/L	500.48 ppb	19:10:12
1	Cd 226.502†	31458.9	22704.9	510.18 ug/L	510.18 ppb	19:10:17
1	Co 228.616†	19270.6	13841.7	508.97 ug/L	508.97 ppb	19:10:17
1	Cr 267.716†	31514.0	22465.2	499.85 ug/L	499.85 ppb	19:10:17
1	Cu 324.752†	143990.9	97771.1	502.20 ug/L	502.20 ppb	19:10:17
1	Mn 257.610†	358385.0	255924.9	498.46 ug/L	498.46 ppb	19:10:17
1	Mo 202.031†	4869.6	3477.5	487.53 ug/L	487.53 ppb	19:10:37
1	Ni 231.604†	14600.4	10366.6	502.51 ug/L	502.51 ppb	19:10:17
1	P 214.914†	3729.9	2453.6	2395.3 ug/L	2395.3 ppb	19:10:37
1	Pb 220.353†	2835.7	2090.4	492.60 ug/L	492.60 ppb	19:10:37
1	S 181.975 Axial†	629.0	414.6	1018.2 ug/L	1018.2 ppb	19:10:37
1	Sb 206.836†	1181.2	806.4	509.02 ug/L	509.02 ppb	19:10:37
1	Se 196.026†	581.6	441.5	527.15 ug/L	527.15 ppb	19:10:37
1	Si 251.611†	65315.6	46129.7	2575.4 ug/L	2575.4 ppb	19:10:17
1	Sn 189.927†	2007.2	1425.0	491.83 ug/L	491.83 ppb	19:10:37
1	Ti 334.940†	258576.2	186388.2	495.78 ug/L	495.78 ppb	19:10:17
1	Tl 190.801†	1169.5	863.6	497.69 ug/L	497.69 ppb	19:10:37
1	U 409.014†	9658.4	9648.3	527.45 ug/L	527.45 ppb	19:10:17
1	V 292.402†	50712.7	37860.3	507.61 ug/L	507.61 ppb	19:10:17
1	Zn 213.857†	41174.8	28799.5	505.95 ug/L	505.95 ppb	19:10:17
1	SiO2†	64500.8	45546.3	5431.3 ug/L	5431.3 ppb	19:11:44
2	Sc Radial	3854.5	3854.5	123 %		19:09:40
2	Y RADIAL	4282.7	4282.7	124.8 %		19:09:20
2	Al 396.153Radial†	4250.9	3555.0	4651.3 ug/L	4651.3 ppb	19:09:20
2	Ca 317.933Radial†	2518.2	2035.8	4805.2 ug/L	4805.2 ppb	19:09:40
2	Fe 238.204 Radial†	393.5	314.5	5158.5 ug/L	5158.5 ppb	19:09:40
2	K 766.490 Radial†	27429.4	19548.3	4897.1 ug/L	4897.1 ppb	19:09:20
2	Mg 279.077 IEC†	121.3	97.5	5147.2 ug/L	5147.2 ppb	19:09:40
2	Na 589.592 Radial†	20730.8	17516.6	9966.8 ug/L	9966.8 ppb	19:09:20
2	Sr 421.552†	48589.7	39599.9	504.07 ug/L	504.07 ppb	19:09:20
2	Sc 361.383	689110.8	689110.8	139.03 %		19:10:43
2	Y 371.029	441081.5	441081.5	106.57 %		19:10:48
2	Ag 328.068†	84449.8	60621.1	506.30 ug/L	506.30 ppb	19:10:48
2	As 188.979†	881.7	656.8	515.42 ug/L	515.42 ppb	19:11:08
2	B 249.677†	17665.4	13114.0	504.28 ug/L	504.28 ppb	19:10:48
2	Ba 233.527†	48491.5	34885.9	503.94 ug/L	503.94 ppb	19:10:48
2	Be 313.107†	1119166.1	808865.1	499.84 ug/L	499.84 ppb	19:10:43
2	Cd 226.502†	31325.0	22733.7	510.82 ug/L	510.82 ppb	19:10:48
2	Co 228.616†	19219.8	13881.8	510.45 ug/L	510.45 ppb	19:10:48
2	Cr 267.716†	31375.8	22491.2	500.43 ug/L	500.43 ppb	19:10:48
2	Cu 324.752†	142920.4	97574.0	501.19 ug/L	501.19 ppb	19:10:48
2	Mn 257.610†	357174.3	256480.1	499.54 ug/L	499.54 ppb	19:10:48
2	Mo 202.031†	4876.4	3501.8	490.94 ug/L	490.94 ppb	19:11:08
2	Ni 231.604†	14550.5	10388.8	503.58 ug/L	503.58 ppb	19:10:48

2	P 214.914†	3736.8	2473.5	2415.7 ug/L	2415.7 ppb	19:11:08
2	Pb 220.353†	2854.0	2114.8	498.37 ug/L	498.37 ppb	19:11:08
2	S 181.975 Axial†	633.6	420.4	1032.5 ug/L	1032.5 ppb	19:11:08
2	Sb 206.836†	1194.1	820.4	517.69 ug/L	517.69 ppb	19:11:08
2	Se 196.026†	580.7	443.2	529.21 ug/L	529.21 ppb	19:11:08
2	Si 251.611†	64993.4	46157.8	2576.9 ug/L	2576.9 ppb	19:10:48
2	Sn 189.927†	2012.8	1437.1	495.97 ug/L	495.97 ppb	19:11:08
2	Ti 334.940†	257230.9	186449.4	495.94 ug/L	495.94 ppb	19:10:48
2	Tl 190.801†	1175.4	872.5	502.78 ug/L	502.78 ppb	19:11:08
2	U 409.014†	9620.3	9659.4	528.05 ug/L	528.05 ppb	19:10:48
2	V 292.402†	50511.4	37917.4	508.41 ug/L	508.41 ppb	19:10:48
2	Zn 213.857†	40975.0	28819.6	506.29 ug/L	506.29 ppb	19:10:48
2	SiO2†	63604.2	45158.1	5384.8 ug/L	5384.8 ppb	19:11:49
3	Sc Radial	3815.9	3815.9	121 %		19:10:05
3	Y RADIAL	4251.0	4251.0	123.9 %		19:09:45
3	Al 396.153Radial†	4186.2	3536.7	4627.5 ug/L	4627.5 ppb	19:09:45
3	Ca 317.933Radial†	2487.9	2031.6	4795.2 ug/L	4795.2 ppb	19:10:05
3	Fe 238.204 Radial†	387.3	312.7	5128.6 ug/L	5128.6 ppb	19:10:05
3	K 766.490 Radial†	27079.8	19486.5	4881.6 ug/L	4881.6 ppb	19:09:45
3	Mg 279.077 IEC†	115.6	93.7	4948.7 ug/L	4948.7 ppb	19:10:05
3	Na 589.592 Radial†	20584.2	17566.7	9995.3 ug/L	9995.3 ppb	19:09:45
3	Sr 421.552†	47934.3	39460.6	502.30 ug/L	502.30 ppb	19:09:45
3	Sc 361.383	693107.4	693107.4	139.84 %		19:11:13
3	Y 371.029	440146.5	440146.5	106.34 %		19:11:19
3	Ag 328.068†	84853.7	60559.7	505.78 ug/L	505.78 ppb	19:11:19
3	As 188.979†	874.6	648.0	508.64 ug/L	508.64 ppb	19:11:39
3	B 249.677†	17762.3	13110.1	504.14 ug/L	504.14 ppb	19:11:19
3	Ba 233.527†	48595.1	34758.8	502.10 ug/L	502.10 ppb	19:11:19
3	Be 313.107†	1132777.4	813957.1	502.97 ug/L	502.97 ppb	19:11:13
3	Cd 226.502†	31497.7	22727.3	510.68 ug/L	510.68 ppb	19:11:19
3	Co 228.616†	19239.5	13816.2	508.03 ug/L	508.03 ppb	19:11:19
3	Cr 267.716†	31502.0	22451.3	499.55 ug/L	499.55 ppb	19:11:19
3	Cu 324.752†	143558.0	97437.2	500.49 ug/L	500.49 ppb	19:11:19
3	Mn 257.610†	358538.0	255973.9	498.56 ug/L	498.56 ppb	19:11:19
3	Mo 202.031†	4868.6	3476.0	487.33 ug/L	487.33 ppb	19:11:39
3	Ni 231.604†	14566.6	10339.9	501.22 ug/L	501.22 ppb	19:11:19
3	P 214.914†	3729.3	2452.6	2394.6 ug/L	2394.6 ppb	19:11:39
3	Pb 220.353†	2832.8	2087.8	492.02 ug/L	492.02 ppb	19:11:39
3	S 181.975 Axial†	622.2	409.6	1006.0 ug/L	1006.0 ppb	19:11:39
3	Sb 206.836†	1179.3	804.9	508.08 ug/L	508.08 ppb	19:11:39
3	Se 196.026†	593.6	450.0	537.00 ug/L	537.00 ppb	19:11:39
3	Si 251.611†	65215.1	46046.8	2570.8 ug/L	2570.8 ppb	19:11:19
3	Sn 189.927†	2007.4	1424.9	491.77 ug/L	491.77 ppb	19:11:39
3	Ti 334.940†	258266.7	186123.3	495.09 ug/L	495.09 ppb	19:11:19
3	Tl 190.801†	1165.2	860.3	495.81 ug/L	495.81 ppb	19:11:39
3	U 409.014†	9478.8	9518.2	520.32 ug/L	520.32 ppb	19:11:19
3	V 292.402†	50680.5	37828.8	507.18 ug/L	507.18 ppb	19:11:19
3	Zn 213.857†	41168.9	28788.4	505.76 ug/L	505.76 ppb	19:11:19
3	SiO2†	63083.3	44521.8	5308.8 ug/L	5308.8 ppb	19:11:54

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	691720.8	139.56 %	0.456			0.33%
Sc Radial	3864.4	123 %	1.7			1.40%
Y 371.029	440369.9	106.39 %	0.152			0.14%
Y RADIAL	4281.8	124.8 %	0.89			0.71%
Ag 328.068†	60566.1	505.84 ug/L	0.442	505.84 ppb	0.442	0.09%
QC value within limits for Ag 328.068 Recovery = 101.17%						
Al 396.153Radial†	3533.5	4623.1 ug/L	30.60	4623.1 ppb	30.60	0.66%
QC value within limits for Al 396.153Radial Recovery = 92.46%						
As 188.979†	650.9	510.83 ug/L	3.984	510.83 ppb	3.984	0.78%
QC value within limits for As 188.979 Recovery = 102.17%						
B 249.677†	13116.3	504.38 ug/L	0.299	504.38 ppb	0.299	0.06%
QC value within limits for B 249.677 Recovery = 100.88%						
Ba 233.527†	34813.4	502.89 ug/L	0.944	502.89 ppb	0.944	0.19%
QC value within limits for Ba 233.527 Recovery = 100.58%						
Be 313.107†	810913.6	501.10 ug/L	1.656	501.10 ppb	1.656	0.33%
QC value within limits for Be 313.107 Recovery = 100.22%						
Ca 317.933Radial†	2030.4	4792.3 ug/L	14.58	4792.3 ppb	14.58	0.30%

QC value within limits for Ca 317.933 Radial Recovery = 95.85%							
Cd 226.502†	22722.0	510.56 ug/L	0.337	510.56 ppb	0.337	0.07%	
QC value within limits for Cd 226.502 Recovery = 102.11%							
Co 228.616†	13846.6	509.15 ug/L	1.220	509.15 ppb	1.220	0.24%	
QC value within limits for Co 228.616 Recovery = 101.83%							
Cr 267.716†	22469.2	499.94 ug/L	0.451	499.94 ppb	0.451	0.09%	
QC value within limits for Cr 267.716 Recovery = 99.99%							
Cu 324.752†	97594.1	501.30 ug/L	0.860	501.30 ppb	0.860	0.17%	
QC value within limits for Cu 324.752 Recovery = 100.26%							
Fe 238.204 Radial†	312.9	5131.0 ug/L	26.34	5131.0 ppb	26.34	0.51%	
QC value within limits for Fe 238.204 Radial Recovery = 102.62%							
K 766.490 Radial†	19420.4	4865.1 ug/L	42.85	4865.1 ppb	42.85	0.88%	
QC value within limits for K 766.490 Radial Recovery = 97.30%							
Mg 279.077 IEC†	95.8	5059.6 ug/L	101.31	5059.6 ppb	101.31	2.00%	
QC value within limits for Mg 279.077 IEC Recovery = 101.19%							
Mn 257.610†	256126.3	498.86 ug/L	0.598	498.86 ppb	0.598	0.12%	
QC value within limits for Mn 257.610 Recovery = 99.77%							
Mo 202.031†	3485.1	488.60 ug/L	2.032	488.60 ppb	2.032	0.42%	
QC value within limits for Mo 202.031 Recovery = 97.72%							
Na 589.592 Radial†	17548.1	9984.8 ug/L	15.62	9984.8 ppb	15.62	0.16%	
QC value within limits for Na 589.592 Radial Recovery = 99.85%							
Ni 231.604†	10365.1	502.44 ug/L	1.186	502.44 ppb	1.186	0.24%	
QC value within limits for Ni 231.604 Recovery = 100.49%							
P 214.914†	2459.9	2401.9 ug/L	11.97	2401.9 ppb	11.97	0.50%	
QC value within limits for P 214.914 Recovery = 96.07%							
Pb 220.353†	2097.7	494.33 ug/L	3.509	494.33 ppb	3.509	0.71%	
QC value within limits for Pb 220.353 Recovery = 98.87%							
S 181.975 Axial†	414.9	1018.9 ug/L	13.26	1018.9 ppb	13.26	1.30%	
QC value within limits for S 181.975 Axial Recovery = 101.89%							
Sb 206.836†	810.6	511.60 ug/L	5.300	511.60 ppb	5.300	1.04%	
QC value within limits for Sb 206.836 Recovery = 102.32%							
Se 196.026†	444.9	531.12 ug/L	5.196	531.12 ppb	5.196	0.98%	
QC value within limits for Se 196.026 Recovery = 106.22%							
Si 251.611†	46111.4	2574.4 ug/L	3.21	2574.4 ppb	3.21	0.12%	
QC value within limits for Si 251.611 Recovery = 102.97%							
Sn 189.927†	1429.0	493.19 ug/L	2.412	493.19 ppb	2.412	0.49%	
QC value within limits for Sn 189.927 Recovery = 98.64%							
Sr 421.552†	39559.6	503.56 ug/L	1.097	503.56 ppb	1.097	0.22%	
QC value within limits for Sr 421.552 Recovery = 100.71%							
Ti 334.940†	186320.3	495.60 ug/L	0.451	495.60 ppb	0.451	0.09%	
QC value within limits for Ti 334.940 Recovery = 99.12%							
Tl 190.801†	865.4	498.76 ug/L	3.607	498.76 ppb	3.607	0.72%	
QC value within limits for Tl 190.801 Recovery = 99.75%							
U 409.014†	9608.6	525.27 ug/L	4.303	525.27 ppb	4.303	0.82%	
QC value within limits for U 409.014 Recovery = 105.05%							
V 292.402†	37868.8	507.73 ug/L	0.626	507.73 ppb	0.626	0.12%	
QC value within limits for V 292.402 Recovery = 101.55%							
Zn 213.857†	28802.5	506.00 ug/L	0.270	506.00 ppb	0.270	0.05%	
QC value within limits for Zn 213.857 Recovery = 101.20%							
SiO2†	45075.4	5375.0 ug/L	61.82	5375.0 ppb	61.82	1.15%	
QC value within limits for SiO2 Recovery = 100.51%							

All analyte(s) passed QC.

Sequence No.: 13

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/29/2010 19:14:04

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	3723.4	3723.4	118 %		19:16:16
1	Y RADIAL	4022.5	4022.5	117.2 %		19:15:56
1	Al 396.153Radial†	-103.4	0.4	0.5262 ug/L	0.5262 ppb	19:16:16
1	Ca 317.933Radial†	16.2	-4.4	-10.391 ug/L	-10.391 ppb	19:16:16
1	Fe 238.204 Radial†	7.8	0.1	2.3577 ug/L	2.3577 ppb	19:16:16
1	K 766.490 Radial†	2867.9	-402.9	-101.10 ug/L	-101.10 ppb	19:15:56
1	Mg 279.077 IEC†	1.9	0.1	6.4770 ug/L	6.4770 ppb	19:16:16
1	Na 589.592 Radial†	-550.8	142.4	81.034 ug/L	81.034 ppb	19:15:56
1	Sr 421.552†	22.6	-13.2	-0.1676 ug/L	-0.1676 ppb	19:15:56
1	Sc 361.383	653769.3	653769.3	131.90 %		19:17:13
1	Y 371.029	511706.3	511706.3	123.63 %		19:17:13
1	Ag 328.068†	73.3	-64.9	-0.5658 ug/L	-0.5658 ppb	19:17:13
1	As 188.979†	-29.9	-0.0	-0.0128 ug/L	-0.0128 ppb	19:17:33
1	B 249.677†	-492.0	34.9	1.3467 ug/L	1.3467 ppb	19:17:33
1	Ba 233.527†	-4.4	4.3	0.0713 ug/L	0.0713 ppb	19:17:33
1	Be 313.107†	-4457.3	511.4	0.3171 ug/L	0.3171 ppb	19:17:13
1	Cd 226.502†	-211.8	42.3	0.9597 ug/L	0.9597 ppb	19:17:33
1	Co 228.616†	-57.2	14.3	0.5258 ug/L	0.5258 ppb	19:17:33
1	Cr 267.716†	91.5	-6.9	-0.1686 ug/L	-0.1686 ppb	19:17:33
1	Cu 324.752†	5381.8	-1143.1	-5.9016 ug/L	-5.9016 ppb	19:17:13
1	Mn 257.610†	446.6	-83.5	-0.1625 ug/L	-0.1625 ppb	19:17:33
1	Mo 202.031†	7.4	0.0	0.0016 ug/L	0.0016 ppb	19:17:33
1	Ni 231.604†	72.9	-21.6	-1.0470 ug/L	-1.0470 ppb	19:17:33
1	P 214.914†	217.3	-49.5	-49.176 ug/L	-49.176 ppb	19:17:33
1	Pb 220.353†	-61.2	15.7	3.6848 ug/L	3.6848 ppb	19:17:33
1	S 181.975 Axial†	37.3	-7.0	-17.274 ug/L	-17.274 ppb	19:17:33
1	Sb 206.836†	36.6	-10.8	-6.5443 ug/L	-6.5443 ppb	19:17:33
1	Se 196.026†	-22.4	8.6	9.9000 ug/L	9.9000 ppb	19:17:33
1	Si 251.611†	535.9	-183.2	-10.253 ug/L	-10.253 ppb	19:17:33
1	Sn 189.927†	15.5	1.1	0.3864 ug/L	0.3864 ppb	19:17:33
1	Ti 334.940†	-1491.8	301.8	0.7776 ug/L	0.7776 ppb	19:17:13
1	Tl 190.801†	-33.9	1.4	0.7727 ug/L	0.7727 ppb	19:17:33
1	U 409.014†	-2317.9	982.5	53.885 ug/L	53.885 ppb	19:17:13
1	V 292.402†	-1695.1	301.2	4.0891 ug/L	4.0891 ppb	19:17:13
1	Zn 213.857†	609.1	-190.3	-3.3605 ug/L	-3.3605 ppb	19:17:33
1	SiO2†	506.0	-206.4	-24.675 ug/L	-24.675 ppb	19:18:29
2	Sc Radial	3778.1	3778.1	120 %		19:16:41
2	Y RADIAL	4161.3	4161.3	121.2 %		19:16:21
2	Al 396.153Radial†	-86.5	15.8	20.668 ug/L	20.668 ppb	19:16:41
2	Ca 317.933Radial†	13.3	-7.1	-16.655 ug/L	-16.655 ppb	19:16:41
2	Fe 238.204 Radial†	7.7	-0.0	-0.3100 ug/L	-0.3100 ppb	19:16:41
2	K 766.490 Radial†	2901.8	-409.8	-102.81 ug/L	-102.81 ppb	19:16:21
2	Mg 279.077 IEC†	1.9	0.1	4.4623 ug/L	4.4623 ppb	19:16:41
2	Na 589.592 Radial†	-629.9	83.3	47.422 ug/L	47.422 ppb	19:16:21
2	Sr 421.552†	43.5	4.0	0.0506 ug/L	0.0506 ppb	19:16:21
2	Sc 361.383	658160.0	658160.0	132.79 %		19:17:38
2	Y 371.029	514473.7	514473.7	124.30 %		19:17:38
2	Ag 328.068†	92.7	-50.7	-0.4439 ug/L	-0.4439 ppb	19:17:38
2	As 188.979†	-33.1	-2.3	-1.7810 ug/L	-1.7810 ppb	19:17:58
2	B 249.677†	-506.8	26.3	1.0147 ug/L	1.0147 ppb	19:17:58
2	Ba 233.527†	-13.4	-2.4	-0.0258 ug/L	-0.0258 ppb	19:17:58
2	Be 313.107†	-4359.8	607.3	0.3766 ug/L	0.3766 ppb	19:17:38
2	Cd 226.502†	-204.7	48.6	1.1021 ug/L	1.1021 ppb	19:17:58
2	Co 228.616†	-79.0	-1.8	-0.0643 ug/L	-0.0643 ppb	19:17:58
2	Cr 267.716†	83.8	-13.2	-0.3060 ug/L	-0.3060 ppb	19:17:58
2	Cu 324.752†	5290.6	-1239.0	-6.3916 ug/L	-6.3916 ppb	19:17:38
2	Mn 257.610†	439.4	-91.2	-0.1776 ug/L	-0.1776 ppb	19:17:58
2	Mo 202.031†	17.7	7.7	1.0835 ug/L	1.0835 ppb	19:17:58
2	Ni 231.604†	63.7	-28.9	-1.4004 ug/L	-1.4004 ppb	19:17:58

2	P 214.914†	226.8	-43.5	-42.923 ug/L	-42.923 ppb	19:17:58
2	Pb 220.353†	-69.1	10.0	2.3698 ug/L	2.3698 ppb	19:17:58
2	S 181.975 Axial†	42.1	-3.6	-8.8980 ug/L	-8.8980 ppb	19:17:58
2	Sb 206.836†	41.2	-7.4	-4.5233 ug/L	-4.5233 ppb	19:17:58
2	Se 196.026†	-29.9	3.0	3.4458 ug/L	3.4458 ppb	19:17:58
2	Si 251.611†	529.5	-190.7	-10.687 ug/L	-10.687 ppb	19:17:58
2	Sn 189.927†	9.7	-3.3	-1.1451 ug/L	-1.1451 ppb	19:17:58
2	Ti 334.940†	-1424.2	360.3	0.9346 ug/L	0.9346 ppb	19:17:38
2	Tl 190.801†	-41.1	-3.9	-2.2245 ug/L	-2.2245 ppb	19:17:58
2	U 409.014†	-2446.4	897.5	49.221 ug/L	49.221 ppb	19:17:38
2	V 292.402†	-1692.9	311.5	4.2314 ug/L	4.2314 ppb	19:17:38
2	Zn 213.857†	609.8	-192.9	-3.4027 ug/L	-3.4027 ppb	19:17:58
2	SiO2†	532.1	-189.3	-22.659 ug/L	-22.659 ppb	19:18:34
3	Sc Radial	3761.7	3761.7	120 %		19:17:06
3	Y RADIAL	3996.3	3996.3	116.4 %		19:16:46
3	Al 396.153Radial†	-87.0	15.0	19.747 ug/L	19.747 ppb	19:17:06
3	Ca 317.933Radial†	14.7	-5.8	-13.783 ug/L	-13.783 ppb	19:17:06
3	Fe 238.204 Radial†	9.2	1.3	20.745 ug/L	20.745 ppb	19:17:06
3	K 766.490 Radial†	2860.6	-433.7	-108.80 ug/L	-108.80 ppb	19:16:46
3	Mg 279.077 IEC†	-0.5	-1.9	-101.26 ug/L	-101.26 ppb	19:17:06
3	Na 589.592 Radial†	-612.7	95.4	54.296 ug/L	54.296 ppb	19:16:46
3	Sr 421.552†	43.4	4.0	0.0512 ug/L	0.0512 ppb	19:16:46
3	Sc 361.383	678363.0	678363.0	136.86 %		19:18:03
3	Y 371.029	530338.3	530338.3	128.13 %		19:18:03
3	Ag 328.068†	200.3	25.9	0.2046 ug/L	0.2046 ppb	19:18:03
3	As 188.979†	-21.4	7.0	5.4399 ug/L	5.4399 ppb	19:18:23
3	B 249.677†	-527.8	22.3	0.8564 ug/L	0.8564 ppb	19:18:23
3	Ba 233.527†	4.2	10.8	0.1677 ug/L	0.1677 ppb	19:18:23
3	Be 313.107†	-4491.3	609.0	0.3780 ug/L	0.3780 ppb	19:18:03
3	Cd 226.502†	-206.5	51.9	1.1732 ug/L	1.1732 ppb	19:18:23
3	Co 228.616†	-46.5	23.8	0.8719 ug/L	0.8719 ppb	19:18:23
3	Cr 267.716†	75.2	-21.3	-0.4818 ug/L	-0.4818 ppb	19:18:23
3	Cu 324.752†	5418.3	-1264.3	-6.5192 ug/L	-6.5192 ppb	19:18:03
3	Mn 257.610†	458.5	-87.0	-0.1632 ug/L	-0.1632 ppb	19:18:23
3	Mo 202.031†	7.4	-0.2	-0.0222 ug/L	-0.0222 ppb	19:18:23
3	Ni 231.604†	63.9	-30.2	-1.4633 ug/L	-1.4633 ppb	19:18:23
3	P 214.914†	212.5	-59.0	-58.723 ug/L	-58.723 ppb	19:18:23
3	Pb 220.353†	-61.7	17.0	3.9880 ug/L	3.9880 ppb	19:18:23
3	S 181.975 Axial†	47.4	-0.7	-1.6876 ug/L	-1.6876 ppb	19:18:23
3	Sb 206.836†	37.6	-11.0	-6.6990 ug/L	-6.6990 ppb	19:18:23
3	Se 196.026†	-29.0	4.3	5.0726 ug/L	5.0726 ppb	19:18:23
3	Si 251.611†	530.2	-202.1	-11.309 ug/L	-11.309 ppb	19:18:23
3	Sn 189.927†	11.4	-2.3	-0.7910 ug/L	-0.7910 ppb	19:18:23
3	Ti 334.940†	-1402.9	407.8	1.0713 ug/L	1.0713 ppb	19:18:03
3	Tl 190.801†	-28.1	6.5	3.7217 ug/L	3.7217 ppb	19:18:23
3	U 409.014†	-2588.6	848.4	46.531 ug/L	46.531 ppb	19:18:03
3	V 292.402†	-1635.6	391.4	5.2623 ug/L	5.2623 ppb	19:18:03
3	Zn 213.857†	605.2	-210.0	-3.7076 ug/L	-3.7076 ppb	19:18:23
3	SiO2†	570.3	-173.4	-20.722 ug/L	-20.722 ppb	19:18:39

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	663430.8	133.85 %	2.646			1.98%
Sc Radial	3754.4	119 %	0.9			0.75%
Y 371.029	518839.4	125.35 %	2.429			1.94%
Y RADIAL	4060.0	118.3 %	2.58			2.18%
Ag 328.068†	-29.9	-0.2684 ug/L	0.41409	-0.2684 ppb	0.41409	154.31%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	10.4	13.647 ug/L	11.3725	13.647 ppb	11.3725	83.33%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.5	1.2154 ug/L	3.76389	1.2154 ppb	3.76389	309.69%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	27.8	1.0726 ug/L	0.25019	1.0726 ppb	0.25019	23.33%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.2	0.0711 ug/L	0.09678	0.0711 ppb	0.09678	136.17%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	575.9	0.3572 ug/L	0.03476	0.3572 ppb	0.03476	9.73%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-5.8	-13.610 ug/L	3.1357	-13.610 ppb	3.1357	23.04%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	47.6	1.0783 ug/L	0.10873	1.0783 ppb	0.10873	10.08%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	12.1	0.4444 ug/L	0.47339	0.4444 ppb	0.47339	106.51%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-13.8	-0.3188 ug/L	0.15702	-0.3188 ppb	0.15702	49.25%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-1215.5	-6.2708 ug/L	0.32608	-6.2708 ppb	0.32608	5.20%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.5	7.5977 ug/L	11.46410	7.5977 ppb	11.46410	150.89%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-415.5	-104.24 ug/L	4.045	-104.24 ppb	4.045	3.88%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.6	-30.107 ug/L	61.6287	-30.107 ppb	61.6287	204.70%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-87.2	-0.1678 ug/L	0.00854	-0.1678 ppb	0.00854	5.09%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	2.5	0.3543 ug/L	0.63160	0.3543 ppb	0.63160	178.28%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	107.1	60.918 ug/L	17.7574	60.918 ppb	17.7574	29.15%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-26.9	-1.3036 ug/L	0.22443	-1.3036 ppb	0.22443	17.22%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-50.7	-50.274 ug/L	7.9567	-50.274 ppb	7.9567	15.83%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	14.2	3.3475 ug/L	0.86020	3.3475 ppb	0.86020	25.70%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-3.8	-9.2864 ug/L	7.80030	-9.2864 ppb	7.80030	84.00%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-9.7	-5.9222 ug/L	1.21397	-5.9222 ppb	1.21397	20.50%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	5.3	6.1395 ug/L	3.35677	6.1395 ppb	3.35677	54.68%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-192.0	-10.750 ug/L	0.5310	-10.750 ppb	0.5310	4.94%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-1.5	-0.5166 ug/L	0.80181	-0.5166 ppb	0.80181	155.22%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-1.7	-0.0219 ug/L	0.12615	-0.0219 ppb	0.12615	575.32%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	356.6	0.9278 ug/L	0.14698	0.9278 ppb	0.14698	15.84%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	1.3	0.7567 ug/L	2.97314	0.7567 ppb	2.97314	392.93%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	909.5	49.879 ug/L	3.7208	49.879 ppb	3.7208	7.46%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	334.7	4.5276 ug/L	0.64026	4.5276 ppb	0.64026	14.14%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-197.7	-3.4903 ug/L	0.18937	-3.4903 ppb	0.18937	5.43%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	-189.7	-22.685 ug/L	1.9769	-22.685 ppb	1.9769	8.71%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 23

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/29/2010 20:23:49

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4153.2	4153.2	132 %		20:25:41
1	Y RADIAL	4445.0	4445.0	129.5 %		20:25:41
1	Al 396.153Radial†	4364.1	3391.3	4437.2 ug/L	4437.2 ppb	20:25:41
1	Ca 317.933Radial†	2504.4	1877.7	4431.9 ug/L	4431.9 ppb	20:26:01
1	Fe 238.204 Radial†	389.4	288.4	4730.1 ug/L	4730.1 ppb	20:26:01
1	K 766.490 Radial†	27810.6	18227.5	4566.1 ug/L	4566.1 ppb	20:25:41
1	Mg 279.077 IEC†	120.9	90.0	4753.6 ug/L	4753.6 ppb	20:26:01
1	Na 589.592 Radial†	21579.8	16943.0	9640.4 ug/L	9640.4 ppb	20:25:41
1	Sr 421.552†	50167.7	37943.7	482.99 ug/L	482.99 ppb	20:25:41
1	Sc 361.383	704094.4	704094.4	142.05 %		20:26:58
1	Y 371.029	439869.6	439869.6	106.27 %		20:27:03
1	Ag 328.068†	81614.5	57332.6	478.79 ug/L	478.79 ppb	20:27:03
1	As 188.979†	842.3	615.6	483.11 ug/L	483.11 ppb	20:27:23
1	B 249.677†	16690.9	12157.6	467.49 ug/L	467.49 ppb	20:27:03
1	Ba 233.527†	46920.7	33037.8	477.24 ug/L	477.24 ppb	20:27:03
1	Be 313.107†	1091307.7	772123.7	477.12 ug/L	477.12 ppb	20:26:58
1	Cd 226.502†	30084.1	21380.7	480.44 ug/L	480.44 ppb	20:27:03
1	Co 228.616†	18484.1	13069.8	480.60 ug/L	480.60 ppb	20:27:03
1	Cr 267.716†	30365.9	21300.0	473.91 ug/L	473.91 ppb	20:27:03
1	Cu 324.752†	137495.3	91567.5	470.33 ug/L	470.33 ppb	20:27:03
1	Mn 257.610†	344511.1	242098.7	471.52 ug/L	471.52 ppb	20:27:03
1	Mo 202.031†	4732.9	3326.2	466.30 ug/L	466.30 ppb	20:27:23
1	Ni 231.604†	14023.5	9795.1	474.80 ug/L	474.80 ppb	20:27:03
1	P 214.914†	3571.5	2299.9	2245.5 ug/L	2245.5 ppb	20:27:23
1	Pb 220.353†	2760.9	2005.6	472.66 ug/L	472.66 ppb	20:27:23
1	S 181.975 Axial†	598.6	386.1	948.08 ug/L	948.08 ppb	20:27:23
1	Sb 206.836†	1138.7	763.1	481.83 ug/L	481.83 ppb	20:27:23
1	Se 196.026†	558.7	418.8	499.75 ug/L	499.75 ppb	20:27:23
1	Si 251.611†	62272.6	43247.7	2414.4 ug/L	2414.4 ppb	20:27:03
1	Sn 189.927†	1943.7	1357.6	468.52 ug/L	468.52 ppb	20:27:23
1	Ti 334.940†	248307.3	176230.4	468.75 ug/L	468.75 ppb	20:27:03
1	Tl 190.801†	1120.9	816.1	470.33 ug/L	470.33 ppb	20:27:23
1	U 409.014†	9337.2	9312.8	509.15 ug/L	509.15 ppb	20:27:03
1	V 292.402†	48735.2	35893.9	481.34 ug/L	481.34 ppb	20:27:03
1	Zn 213.857†	39343.2	27043.8	475.10 ug/L	475.10 ppb	20:27:03
1	Sio2†	63437.9	44067.5	5255.1 ug/L	5255.1 ppb	20:28:30
2	Sc Radial	3983.6	3983.6	127 %		20:26:06
2	Y RADIAL	4286.2	4286.2	124.9 %		20:26:06
2	Al 396.153Radial†	4253.1	3444.3	4505.0 ug/L	4505.0 ppb	20:26:06
2	Ca 317.933Radial†	2533.8	1981.6	4677.1 ug/L	4677.1 ppb	20:26:26
2	Fe 238.204 Radial†	393.7	304.3	4992.2 ug/L	4992.2 ppb	20:26:26
2	K 766.490 Radial†	27105.9	18567.9	4651.3 ug/L	4651.3 ppb	20:26:06
2	Mg 279.077 IEC†	126.6	98.5	5198.6 ug/L	5198.6 ppb	20:26:26
2	Na 589.592 Radial†	20882.1	17088.0	9722.9 ug/L	9722.9 ppb	20:26:06
2	Sr 421.552†	48985.9	38628.1	491.70 ug/L	491.70 ppb	20:26:06
2	Sc 361.383	657154.1	657154.1	132.58 %		20:27:29
2	Y 371.029	438724.6	438724.6	106.00 %		20:27:34
2	Ag 328.068†	83223.9	62650.3	523.14 ug/L	523.14 ppb	20:27:34
2	As 188.979†	862.0	672.8	527.97 ug/L	527.97 ppb	20:27:54
2	B 249.677†	17144.3	13338.8	512.96 ug/L	512.96 ppb	20:27:34
2	Ba 233.527†	47745.7	36019.4	520.30 ug/L	520.30 ppb	20:27:34
2	Be 313.107†	1063570.3	806077.7	498.15 ug/L	498.15 ppb	20:27:29
2	Cd 226.502†	30784.9	23422.0	526.32 ug/L	526.32 ppb	20:27:34
2	Co 228.616†	18849.3	14274.7	524.90 ug/L	524.90 ppb	20:27:34
2	Cr 267.716†	30960.4	23275.3	517.84 ug/L	517.84 ppb	20:27:34
2	Cu 324.752†	140319.7	100611.4	516.78 ug/L	516.78 ppb	20:27:34
2	Mn 257.610†	351066.3	264366.1	514.88 ug/L	514.88 ppb	20:27:34
2	Mo 202.031†	4793.8	3610.1	506.09 ug/L	506.09 ppb	20:27:54
2	Ni 231.604†	14303.0	10711.1	519.21 ug/L	519.21 ppb	20:27:34

2	P 214.914†	3638.2	2529.8	2470.1 ug/L	2470.1 ppb	20:27:54
2	Pb 220.353†	2813.4	2184.0	514.62 ug/L	514.62 ppb	20:27:54
2	S 181.975 Axial†	605.3	421.2	1034.5 ug/L	1034.5 ppb	20:27:54
2	Sb 206.836†	1160.4	836.7	528.19 ug/L	528.19 ppb	20:27:54
2	Se 196.026†	559.0	447.1	533.30 ug/L	533.30 ppb	20:27:54
2	Si 251.611†	63586.6	47370.0	2644.6 ug/L	2644.6 ppb	20:27:34
2	Sn 189.927†	1981.1	1483.6	511.93 ug/L	511.93 ppb	20:27:54
2	Ti 334.940†	253099.1	192330.3	511.55 ug/L	511.55 ppb	20:27:34
2	Tl 190.801†	1151.5	895.6	516.13 ug/L	516.13 ppb	20:27:54
2	U 409.014†	9551.0	9943.5	543.62 ug/L	543.62 ppb	20:27:34
2	V 292.402†	49706.4	39077.0	524.01 ug/L	524.01 ppb	20:27:34
2	Zn 213.857†	40140.2	29623.2	520.45 ug/L	520.45 ppb	20:27:34
2	SiO2†	62800.5	46776.6	5577.8 ug/L	5577.8 ppb	20:28:35
3	Sc Radial	3925.6	3925.6	125 %		20:26:31
3	Y RADIAL	4255.3	4255.3	124.0 %		20:26:31
3	Al 396.153Radial†	4242.6	3485.5	4559.9 ug/L	4559.9 ppb	20:26:31
3	Ca 317.933Radial†	2477.9	1966.3	4641.0 ug/L	4641.0 ppb	20:26:51
3	Fe 238.204 Radial†	383.5	300.7	4932.6 ug/L	4932.6 ppb	20:26:51
3	K 766.490 Radial†	27052.6	18840.9	4719.8 ug/L	4719.8 ppb	20:26:31
3	Mg 279.077 IEC†	114.9	90.5	4779.4 ug/L	4779.4 ppb	20:26:51
3	Na 589.592 Radial†	20782.0	17251.0	9815.7 ug/L	9815.7 ppb	20:26:31
3	Sr 421.552†	48773.7	39028.6	496.80 ug/L	496.80 ppb	20:26:31
3	Sc 361.383	675607.7	675607.7	136.31 %		20:27:59
3	Y 371.029	440660.3	440660.3	106.47 %		20:28:05
3	Ag 328.068†	84264.4	61699.1	515.21 ug/L	515.21 ppb	20:28:05
3	As 188.979†	844.5	642.2	504.09 ug/L	504.09 ppb	20:28:25
3	B 249.677†	17399.6	13172.9	506.58 ug/L	506.58 ppb	20:28:05
3	Ba 233.527†	48232.9	35393.2	511.26 ug/L	511.26 ppb	20:28:05
3	Be 313.107†	1098490.4	809785.3	500.42 ug/L	500.42 ppb	20:27:59
3	Cd 226.502†	31031.7	22968.9	516.14 ug/L	516.14 ppb	20:28:05
3	Co 228.616†	19039.7	14026.0	515.73 ug/L	515.73 ppb	20:28:05
3	Cr 267.716†	31387.8	22951.1	510.63 ug/L	510.63 ppb	20:28:05
3	Cu 324.752†	142477.5	99303.7	510.06 ug/L	510.06 ppb	20:28:05
3	Mn 257.610†	355049.1	260055.6	506.50 ug/L	506.50 ppb	20:28:05
3	Mo 202.031†	4764.7	3490.0	489.27 ug/L	489.27 ppb	20:28:25
3	Ni 231.604†	14505.5	10565.0	512.13 ug/L	512.13 ppb	20:28:05
3	P 214.914†	3596.0	2423.8	2363.6 ug/L	2363.6 ppb	20:28:25
3	Pb 220.353†	2780.8	2102.1	495.38 ug/L	495.38 ppb	20:28:25
3	S 181.975 Axial†	603.0	407.1	999.73 ug/L	999.73 ppb	20:28:25
3	Sb 206.836†	1157.8	810.9	511.82 ug/L	511.82 ppb	20:28:25
3	Se 196.026†	559.5	436.0	520.27 ug/L	520.27 ppb	20:28:25
3	Si 251.611†	64448.9	46692.6	2606.9 ug/L	2606.9 ppb	20:28:05
3	Sn 189.927†	1956.1	1424.4	491.55 ug/L	491.55 ppb	20:28:25
3	Ti 334.940†	256251.8	189429.0	503.87 ug/L	503.87 ppb	20:28:05
3	Tl 190.801†	1144.1	866.4	499.39 ug/L	499.39 ppb	20:28:25
3	U 409.014†	9603.2	9785.1	534.95 ug/L	534.95 ppb	20:28:05
3	V 292.402†	50494.8	38631.3	517.86 ug/L	517.86 ppb	20:28:05
3	Zn 213.857†	40618.7	29147.3	512.07 ug/L	512.07 ppb	20:28:05
3	SiO2†	63705.2	46146.6	5503.0 ug/L	5503.0 ppb	20:28:40

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	678952.1	136.98 %	4.771			3.48%
Sc Radial	4020.8	128 %	3.8			2.94%
Y 371.029	439751.5	106.25 %	0.235			0.22%
Y RADIAL	4328.9	126.1 %	2.97			2.35%
Ag 328.068†	60560.7	505.71 ug/L	23.656	505.71 ppb	23.656	4.68%
QC value within limits for Ag 328.068 Recovery = 101.14%						
Al 396.153Radial†	3440.3	4500.7 ug/L	61.49	4500.7 ppb	61.49	1.37%
QC value within limits for Al 396.153Radial Recovery = 90.01%						
As 188.979†	643.5	505.06 ug/L	22.444	505.06 ppb	22.444	4.44%
QC value within limits for As 188.979 Recovery = 101.01%						
B 249.677†	12889.8	495.68 ug/L	24.614	495.68 ppb	24.614	4.97%
QC value within limits for B 249.677 Recovery = 99.14%						
Ba 233.527†	34816.8	502.93 ug/L	22.708	502.93 ppb	22.708	4.52%
QC value within limits for Ba 233.527 Recovery = 100.59%						
Be 313.107†	795995.5	491.90 ug/L	12.848	491.90 ppb	12.848	2.61%
QC value within limits for Be 313.107 Recovery = 98.38%						
Ca 317.933Radial†	1941.9	4583.3 ug/L	132.41	4583.3 ppb	132.41	2.89%

QC value within limits for Ca 317.933 Radial Recovery = 91.67%									
Cd	226.502†	22590.6	507.63 ug/L	24.096	507.63 ppb	24.096	4.75%		
QC value within limits for Cd 226.502 Recovery = 101.53%									
Co	228.616†	13790.1	507.07 ug/L	23.385	507.07 ppb	23.385	4.61%		
QC value within limits for Co 228.616 Recovery = 101.41%									
Cr	267.716†	22508.8	500.79 ug/L	23.561	500.79 ppb	23.561	4.70%		
QC value within limits for Cr 267.716 Recovery = 100.16%									
Cu	324.752†	97160.9	499.06 ug/L	25.106	499.06 ppb	25.106	5.03%		
QC value within limits for Cu 324.752 Recovery = 99.81%									
Fe	238.204 Radial†	297.8	4885.0 ug/L	137.39	4885.0 ppb	137.39	2.81%		
QC value within limits for Fe 238.204 Radial Recovery = 97.70%									
K	766.490 Radial†	18545.4	4645.8 ug/L	76.98	4645.8 ppb	76.98	1.66%		
QC value within limits for K 766.490 Radial Recovery = 92.92%									
Mg	279.077 IEC†	93.0	4910.5 ug/L	249.79	4910.5 ppb	249.79	5.09%		
QC value within limits for Mg 279.077 IEC Recovery = 98.21%									
Mn	257.610†	255506.8	497.63 ug/L	22.995	497.63 ppb	22.995	4.62%		
QC value within limits for Mn 257.610 Recovery = 99.53%									
Mo	202.031†	3475.4	487.22 ug/L	19.973	487.22 ppb	19.973	4.10%		
QC value within limits for Mo 202.031 Recovery = 97.44%									
Na	589.592 Radial†	17094.0	9726.3 ug/L	87.66	9726.3 ppb	87.66	0.90%		
QC value within limits for Na 589.592 Radial Recovery = 97.26%									
Ni	231.604†	10357.0	502.05 ug/L	23.856	502.05 ppb	23.856	4.75%		
QC value within limits for Ni 231.604 Recovery = 100.41%									
P	214.914†	2417.8	2359.7 ug/L	112.35	2359.7 ppb	112.35	4.76%		
QC value within limits for P 214.914 Recovery = 94.39%									
Pb	220.353†	2097.3	494.22 ug/L	21.005	494.22 ppb	21.005	4.25%		
QC value within limits for Pb 220.353 Recovery = 98.84%									
S	181.975 Axial†	404.8	994.10 ug/L	43.483	994.10 ppb	43.483	4.37%		
QC value within limits for S 181.975 Axial Recovery = 99.41%									
Sb	206.836†	803.6	507.28 ug/L	23.512	507.28 ppb	23.512	4.63%		
QC value within limits for Sb 206.836 Recovery = 101.46%									
Se	196.026†	434.0	517.77 ug/L	16.918	517.77 ppb	16.918	3.27%		
QC value within limits for Se 196.026 Recovery = 103.55%									
Si	251.611†	45770.1	2555.3 ug/L	123.47	2555.3 ppb	123.47	4.83%		
QC value within limits for Si 251.611 Recovery = 102.21%									
Sn	189.927†	1421.9	490.67 ug/L	21.719	490.67 ppb	21.719	4.43%		
QC value within limits for Sn 189.927 Recovery = 98.13%									
Sr	421.552†	38533.5	490.50 ug/L	6.983	490.50 ppb	6.983	1.42%		
QC value within limits for Sr 421.552 Recovery = 98.10%									
Ti	334.940†	185996.6	494.72 ug/L	22.822	494.72 ppb	22.822	4.61%		
QC value within limits for Ti 334.940 Recovery = 98.94%									
Tl	190.801†	859.4	495.28 ug/L	23.175	495.28 ppb	23.175	4.68%		
QC value within limits for Tl 190.801 Recovery = 99.06%									
U	409.014†	9680.5	529.24 ug/L	17.928	529.24 ppb	17.928	3.39%		
QC value within limits for U 409.014 Recovery = 105.85%									
V	292.402†	37867.4	507.74 ug/L	23.065	507.74 ppb	23.065	4.54%		
QC value within limits for V 292.402 Recovery = 101.55%									
Zn	213.857†	28604.8	502.54 ug/L	24.130	502.54 ppb	24.130	4.80%		
QC value within limits for Zn 213.857 Recovery = 100.51%									
SiO2†		45663.6	5445.3 ug/L	168.93	5445.3 ppb	168.93	3.10%		
QC value within limits for SiO2 Recovery = 101.83%									

All analyte(s) passed QC.

Sequence No.: 24

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/29/2010 20:30:50

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4019.3	4019.3	128 %		20:33:02
1	Y RADIAL	4239.0	4239.0	123.5 %		20:32:42
1	Al 396.153Radial†	-95.4	13.1	17.195 ug/L	17.195 ppb	20:33:02
1	Ca 317.933Radial†	14.4	-6.8	-16.106 ug/L	-16.106 ppb	20:33:02
1	Fe 238.204 Radial†	10.1	1.5	24.614 ug/L	24.614 ppb	20:33:02
1	K 766.490 Radial†	2925.3	-536.4	-134.56 ug/L	-134.56 ppb	20:32:42
1	Mg 279.077 IEC†	2.3	0.3	15.782 ug/L	15.782 ppb	20:33:02
1	Na 589.592 Radial†	-588.4	147.3	83.807 ug/L	83.807 ppb	20:32:42
1	Sr 421.552†	41.2	-0.0	-0.0004 ug/L	-0.0004 ppb	20:32:42
1	Sc 361.383	625129.5	625129.5	126.12 %		20:33:59
1	Y 371.029	490401.4	490401.4	118.48 %		20:33:59
1	Ag 328.068†	118.3	-26.7	-0.2412 ug/L	-0.2412 ppb	20:33:59
1	As 188.979†	-32.3	-3.0	-2.3136 ug/L	-2.3136 ppb	20:34:19
1	B 249.677†	-478.5	28.6	1.0990 ug/L	1.0990 ppb	20:34:19
1	Ba 233.527†	7.0	13.3	0.1993 ug/L	0.1993 ppb	20:34:19
1	Be 313.107†	-4246.4	523.8	0.3250 ug/L	0.3250 ppb	20:33:59
1	Cd 226.502†	-209.2	36.9	0.8362 ug/L	0.8362 ppb	20:34:19
1	Co 228.616†	-69.1	3.0	0.1091 ug/L	0.1091 ppb	20:34:19
1	Cr 267.716†	58.8	-29.6	-0.6703 ug/L	-0.6703 ppb	20:34:19
1	Cu 324.752†	5301.3	-1019.9	-5.2657 ug/L	-5.2657 ppb	20:33:59
1	Mn 257.610†	446.4	-68.1	-0.1308 ug/L	-0.1308 ppb	20:34:19
1	Mo 202.031†	10.4	2.6	0.3687 ug/L	0.3687 ppb	20:34:19
1	Ni 231.604†	50.7	-36.7	-1.7787 ug/L	-1.7787 ppb	20:34:19
1	P 214.914†	212.4	-45.9	-45.586 ug/L	-45.586 ppb	20:34:19
1	Pb 220.353†	-87.1	-7.0	-1.6424 ug/L	-1.6424 ppb	20:34:19
1	S 181.975 Axial†	43.8	-0.6	-1.5425 ug/L	-1.5425 ppb	20:34:19
1	Sb 206.836†	37.8	-8.5	-5.1388 ug/L	-5.1388 ppb	20:34:19
1	Se 196.026†	-32.2	-0.0	0.0523 ug/L	0.0523 ppb	20:34:19
1	Si 251.611†	532.5	-167.3	-9.3665 ug/L	-9.3665 ppb	20:34:19
1	Sn 189.927†	18.9	4.3	1.4776 ug/L	1.4776 ppb	20:34:19
1	Ti 334.940†	-1381.0	337.9	0.8738 ug/L	0.8738 ppb	20:33:59
1	Tl 190.801†	-35.7	-1.2	-0.7139 ug/L	-0.7139 ppb	20:34:19
1	U 409.014†	-2299.3	916.8	50.278 ug/L	50.278 ppb	20:33:59
1	V 292.402†	-1681.4	253.3	3.4494 ug/L	3.4494 ppb	20:33:59
1	Zn 213.857†	600.5	-176.0	-3.1055 ug/L	-3.1055 ppb	20:34:19
1	SiO2†	563.4	-143.3	-17.143 ug/L	-17.143 ppb	20:35:15
2	Sc Radial	3784.6	3784.6	120 %		20:33:27
2	Y RADIAL	4592.8	4592.8	133.8 %		20:33:07
2	Al 396.153Radial†	-92.6	10.8	14.200 ug/L	14.200 ppb	20:33:27
2	Ca 317.933Radial†	17.7	-3.4	-8.0940 ug/L	-8.0940 ppb	20:33:27
2	Fe 238.204 Radial†	6.9	-0.7	-11.131 ug/L	-11.131 ppb	20:33:27
2	K 766.490 Radial†	2854.5	-453.2	-113.68 ug/L	-113.68 ppb	20:33:07
2	Mg 279.077 IEC†	0.8	-0.8	-40.621 ug/L	-40.621 ppb	20:33:27
2	Na 589.592 Radial†	-677.0	45.1	25.646 ug/L	25.646 ppb	20:33:07
2	Sr 421.552†	14.4	-20.3	-0.2580 ug/L	-0.2580 ppb	20:33:07
2	Sc 361.383	648974.8	648974.8	130.93 %		20:34:24
2	Y 371.029	510312.9	510312.9	123.29 %		20:34:24
2	Ag 328.068†	91.3	-50.7	-0.4464 ug/L	-0.4464 ppb	20:34:24
2	As 188.979†	-30.3	-0.5	-0.3764 ug/L	-0.3764 ppb	20:34:44
2	B 249.677†	-527.8	4.8	0.1869 ug/L	0.1869 ppb	20:34:44
2	Ba 233.527†	-3.1	5.3	0.0867 ug/L	0.0867 ppb	20:34:44
2	Be 313.107†	-4389.3	538.3	0.3343 ug/L	0.3343 ppb	20:34:24
2	Cd 226.502†	-217.7	36.6	0.8316 ug/L	0.8316 ppb	20:34:44
2	Co 228.616†	-61.5	10.8	0.3947 ug/L	0.3947 ppb	20:34:44
2	Cr 267.716†	101.2	1.1	0.0089 ug/L	0.0089 ppb	20:34:44
2	Cu 324.752†	5287.9	-1184.7	-6.1133 ug/L	-6.1133 ppb	20:34:24
2	Mn 257.610†	443.3	-83.5	-0.1620 ug/L	-0.1620 ppb	20:34:44
2	Mo 202.031†	11.2	2.9	0.4122 ug/L	0.4122 ppb	20:34:44
2	Ni 231.604†	61.4	-29.9	-1.4511 ug/L	-1.4511 ppb	20:34:44

2	P 214.914†	215.3	-49.9	-49.469 ug/L	-49.469 ppb	20:34:44
2	Pb 220.353†	-52.8	21.7	5.1164 ug/L	5.1164 ppb	20:34:44
2	S 181.975 Axial†	37.9	-6.4	-15.612 ug/L	-15.612 ppb	20:34:44
2	Sb 206.836†	35.3	-11.5	-7.0376 ug/L	-7.0376 ppb	20:34:44
2	Se 196.026†	-18.1	11.7	13.459 ug/L	13.459 ppb	20:34:44
2	Si 251.611†	551.1	-168.7	-9.4431 ug/L	-9.4431 ppb	20:34:44
2	Sn 189.927†	8.3	-4.3	-1.4946 ug/L	-1.4946 ppb	20:34:44
2	Ti 334.940†	-1353.7	399.0	1.0422 ug/L	1.0422 ppb	20:34:24
2	Tl 190.801†	-26.6	6.7	3.8476 ug/L	3.8476 ppb	20:34:44
2	U 409.014†	-2408.3	900.5	49.386 ug/L	49.386 ppb	20:34:24
2	V 292.402†	-1630.3	341.3	4.6165 ug/L	4.6165 ppb	20:34:24
2	Zn 213.857†	617.2	-180.7	-3.1851 ug/L	-3.1851 ppb	20:34:44
2	SiO2†	564.1	-159.2	-19.042 ug/L	-19.042 ppb	20:35:20
3	Sc Radial	3924.9	3924.9	125 %		20:33:52
3	Y RADIAL	4366.2	4366.2	127.2 %		20:33:32
3	Al 396.153Radial†	-94.8	11.8	15.508 ug/L	15.508 ppb	20:33:52
3	Ca 317.933Radial†	14.3	-6.7	-15.734 ug/L	-15.734 ppb	20:33:52
3	Fe 238.204 Radial†	8.4	0.3	5.4665 ug/L	5.4665 ppb	20:33:52
3	K 766.490 Radial†	2847.9	-543.3	-136.28 ug/L	-136.28 ppb	20:33:32
3	Mg 279.077 IEC†	3.8	1.5	81.409 ug/L	81.409 ppb	20:33:52
3	Na 589.592 Radial†	-668.8	71.8	40.865 ug/L	40.865 ppb	20:33:32
3	Sr 421.552†	45.2	4.0	0.0508 ug/L	0.0508 ppb	20:33:32
3	Sc 361.383	656730.3	656730.3	132.50 %		20:34:49
3	Y 371.029	515526.3	515526.3	124.55 %		20:34:49
3	Ag 328.068†	142.2	-13.1	-0.1284 ug/L	-0.1284 ppb	20:34:49
3	As 188.979†	-29.0	0.7	0.5672 ug/L	0.5672 ppb	20:35:09
3	B 249.677†	-495.1	34.3	1.3228 ug/L	1.3228 ppb	20:35:09
3	Ba 233.527†	-11.1	-0.6	0.0029 ug/L	0.0029 ppb	20:35:09
3	Be 313.107†	-4328.1	624.1	0.3872 ug/L	0.3872 ppb	20:34:49
3	Cd 226.502†	-210.0	44.3	1.0046 ug/L	1.0046 ppb	20:35:09
3	Co 228.616†	-53.9	17.1	0.6248 ug/L	0.6248 ppb	20:35:09
3	Cr 267.716†	89.3	-8.9	-0.2096 ug/L	-0.2096 ppb	20:35:09
3	Cu 324.752†	5322.8	-1206.0	-6.2244 ug/L	-6.2244 ppb	20:34:49
3	Mn 257.610†	452.5	-80.6	-0.1596 ug/L	-0.1596 ppb	20:35:09
3	Mo 202.031†	2.7	-3.6	-0.5000 ug/L	-0.5000 ppb	20:35:09
3	Ni 231.604†	64.3	-28.3	-1.3725 ug/L	-1.3725 ppb	20:35:09
3	P 214.914†	201.6	-62.2	-61.920 ug/L	-61.920 ppb	20:35:09
3	Pb 220.353†	-65.9	12.3	2.8941 ug/L	2.8941 ppb	20:35:09
3	S 181.975 Axial†	41.9	-3.7	-9.1275 ug/L	-9.1275 ppb	20:35:09
3	Sb 206.836†	39.9	-8.4	-5.1009 ug/L	-5.1009 ppb	20:35:09
3	Se 196.026†	-23.7	7.6	8.8263 ug/L	8.8263 ppb	20:35:09
3	Si 251.611†	550.7	-173.9	-9.7250 ug/L	-9.7250 ppb	20:35:09
3	Sn 189.927†	20.3	4.6	1.5908 ug/L	1.5908 ppb	20:35:09
3	Ti 334.940†	-1365.1	402.6	1.0392 ug/L	1.0392 ppb	20:34:49
3	Tl 190.801†	-29.2	5.0	2.8802 ug/L	2.8802 ppb	20:35:09
3	U 409.014†	-2341.0	973.0	53.363 ug/L	53.363 ppb	20:34:49
3	V 292.402†	-1558.3	410.3	5.5254 ug/L	5.5254 ppb	20:34:49
3	Zn 213.857†	609.4	-192.2	-3.3916 ug/L	-3.3916 ppb	20:35:09
3	SiO2†	549.2	-175.5	-20.970 ug/L	-20.970 ppb	20:35:25

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	643611.5	129.85 %	3.323			2.56%
Sc Radial	3909.6	124 %	3.8			3.02%
Y 371.029	505413.6	122.11 %	3.204			2.62%
Y RADIAL	4399.3	128.2 %	5.22			4.07%
Ag 328.068†	-30.2	-0.2720 ug/L	0.16123	-0.2720 ppb	0.16123	59.28%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	11.9	15.634 ug/L	1.5013	15.634 ppb	1.5013	9.60%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.9	-0.7076 ug/L	1.46866	-0.7076 ppb	1.46866	207.56%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	22.6	0.8696 ug/L	0.60170	0.8696 ppb	0.60170	69.19%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	6.0	0.0963 ug/L	0.09857	0.0963 ppb	0.09857	102.37%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	562.1	0.3488 ug/L	0.03357	0.3488 ppb	0.03357	9.62%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-5.6	-13.311 ug/L	4.5221	-13.311 ppb	4.5221	33.97%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	39.3	0.8908 ug/L	0.09855	0.8908 ppb	0.09855	11.06%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	10.3	0.3762 ug/L	0.25835	0.3762 ppb	0.25835	68.68%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	-12.5	-0.2903 ug/L	0.34674	-0.2903 ppb	0.34674	119.43%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-1136.9	-5.8678 ug/L	0.52435	-5.8678 ppb	0.52435	8.94%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	0.4	6.3163 ug/L	17.88762	6.3163 ppb	17.88762	283.20%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	-510.9	-128.18 ug/L	12.581	-128.18 ppb	12.581	9.82%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	0.4	18.857 ug/L	61.0732	18.857 ppb	61.0732	323.88%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-77.4	-0.1508 ug/L	0.01735	-0.1508 ppb	0.01735	11.51%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	0.7	0.0936 ug/L	0.51454	0.0936 ppb	0.51454	549.45%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	88.1	50.106 ug/L	30.1615	50.106 ppb	30.1615	60.20%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-31.6	-1.5341 ug/L	0.21545	-1.5341 ppb	0.21545	14.04%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	-52.6	-52.325 ug/L	8.5331	-52.325 ppb	8.5331	16.31%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	9.0	2.1227 ug/L	3.44477	2.1227 ppb	3.44477	162.28%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	-3.6	-8.7607 ug/L	7.04210	-8.7607 ppb	7.04210	80.38%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	-9.5	-5.7591 ug/L	1.10739	-5.7591 ppb	1.10739	19.23%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	6.4	7.4458 ug/L	6.80899	7.4458 ppb	6.80899	91.45%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	-170.0	-9.5115 ug/L	0.18881	-9.5115 ppb	0.18881	1.99%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	1.5	0.5246 ug/L	1.74958	0.5246 ppb	1.74958	333.52%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-5.4	-0.0692 ug/L	0.16550	-0.0692 ppb	0.16550	239.14%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	379.8	0.9851 ug/L	0.09637	0.9851 ppb	0.09637	9.78%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	3.5	2.0046 ug/L	2.40350	2.0046 ppb	2.40350	119.90%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	930.1	51.009 ug/L	2.0867	51.009 ppb	2.0867	4.09%		
QC value greater than the upper limit for U 409.014 Recovery = Not calculated									
V	292.402†	335.0	4.5304 ug/L	1.04065	4.5304 ppb	1.04065	22.97%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	-183.0	-3.2274 ug/L	0.14765	-3.2274 ppb	0.14765	4.58%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		-159.4	-19.052 ug/L	1.9133	-19.052 ppb	1.9133	10.04%		
QC value within limits for SiO2 Recovery = Not calculated									
QC Failed. Continue with analysis.									

Sequence No.: 33

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/29/2010 21:33:20

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	3811.8	3811.8	121 %		21:35:32
1	Y RADIAL	4097.4	4097.4	119.4 %		21:35:12
1	Al 396.153Radial†	4233.0	3579.1	4683.0 ug/L	4683.0 ppb	21:35:12
1	Ca 317.933Radial†	2516.6	2057.6	4856.4 ug/L	4856.4 ppb	21:35:32
1	Fe 238.204 Radial†	394.3	318.8	5228.8 ug/L	5228.8 ppb	21:35:32
1	K 766.490 Radial†	27102.1	19528.8	4891.9 ug/L	4891.9 ppb	21:35:12
1	Mg 279.077 IEC†	121.6	98.8	5215.9 ug/L	5215.9 ppb	21:35:32
1	Na 589.592 Radial†	22094.9	18831.0	10715 ug/L	10715 ppb	21:35:12
1	Sr 421.552†	50024.1	41226.8	524.78 ug/L	524.78 ppb	21:35:12
1	Sc 361.383	668550.9	668550.9	134.88 %		21:36:29
1	Y 371.029	461094.8	461094.8	111.40 %		21:36:35
1	Ag 328.068†	81717.6	60463.5	505.02 ug/L	505.02 ppb	21:36:35
1	As 188.979†	833.2	640.3	502.63 ug/L	502.63 ppb	21:36:55
1	B 249.677†	16947.3	12972.3	498.81 ug/L	498.81 ppb	21:36:35
1	Ba 233.527†	47302.2	35076.7	506.69 ug/L	506.69 ppb	21:36:35
1	Be 313.107†	1084987.5	808281.0	499.47 ug/L	499.47 ppb	21:36:29
1	Cd 226.502†	30343.4	22698.9	510.03 ug/L	510.03 ppb	21:36:35
1	Co 228.616†	18573.1	13827.5	508.45 ug/L	508.45 ppb	21:36:35
1	Cr 267.716†	30707.3	22689.6	504.85 ug/L	504.85 ppb	21:36:35
1	Cu 324.752†	137841.0	96969.6	498.09 ug/L	498.09 ppb	21:36:35
1	Mn 257.610†	349102.2	258396.1	503.28 ug/L	503.28 ppb	21:36:29
1	Mo 202.031†	4731.2	3502.0	490.97 ug/L	490.97 ppb	21:36:55
1	Ni 231.604†	14145.0	10410.0	504.62 ug/L	504.62 ppb	21:36:35
1	P 214.914†	3543.7	2412.9	2354.7 ug/L	2354.7 ppb	21:36:55
1	Pb 220.353†	2724.9	2082.2	490.71 ug/L	490.71 ppb	21:36:55
1	S 181.975 Axial†	594.8	405.6	996.20 ug/L	996.20 ppb	21:36:55
1	Sb 206.836†	1141.0	807.4	509.70 ug/L	509.70 ppb	21:36:55
1	Se 196.026†	551.3	434.2	519.05 ug/L	519.05 ppb	21:36:55
1	Si 251.611†	62728.1	45916.0	2563.4 ug/L	2563.4 ppb	21:36:35
1	Sn 189.927†	1933.1	1422.5	490.98 ug/L	490.98 ppb	21:36:55
1	Ti 334.940†	249493.4	186402.8	495.81 ug/L	495.81 ppb	21:36:35
1	Tl 190.801†	1139.9	872.1	502.63 ug/L	502.63 ppb	21:36:55
1	U 409.014†	9353.5	9674.3	528.85 ug/L	528.85 ppb	21:36:35
1	V 292.402†	49095.8	37985.1	509.30 ug/L	509.30 ppb	21:36:35
1	Zn 213.857†	39531.3	28655.7	503.37 ug/L	503.37 ppb	21:36:35
1	SiO2†	63646.6	46596.5	5556.7 ug/L	5556.7 ppb	21:38:02
2	Sc Radial	3915.0	3915.0	125 %		21:35:57
2	Y RADIAL	3918.5	3918.5	114.2 %		21:35:37
2	Al 396.153Radial†	4220.9	3477.3	4548.7 ug/L	4548.7 ppb	21:35:37
2	Ca 317.933Radial†	2476.3	1970.5	4650.9 ug/L	4650.9 ppb	21:35:57
2	Fe 238.204 Radial†	389.4	306.3	5024.0 ug/L	5024.0 ppb	21:35:57
2	K 766.490 Radial†	26800.5	18697.3	4683.6 ug/L	4683.6 ppb	21:35:37
2	Mg 279.077 IEC†	118.3	93.5	4936.6 ug/L	4936.6 ppb	21:35:57
2	Na 589.592 Radial†	21743.8	18068.6	10281 ug/L	10281 ppb	21:35:37
2	Sr 421.552†	49420.7	39654.4	504.76 ug/L	504.76 ppb	21:35:37
2	Sc 361.383	654264.1	654264.1	132.00 %		21:37:00
2	Y 371.029	462407.1	462407.1	111.72 %		21:37:05
2	Ag 328.068†	82381.3	62289.2	520.14 ug/L	520.14 ppb	21:37:05
2	As 188.979†	832.4	653.2	512.73 ug/L	512.73 ppb	21:37:26
2	B 249.677†	16979.0	13270.7	510.34 ug/L	510.34 ppb	21:37:05
2	Ba 233.527†	47344.4	35874.4	518.21 ug/L	518.21 ppb	21:37:05
2	Be 313.107†	1059573.9	806593.5	498.47 ug/L	498.47 ppb	21:37:00
2	Cd 226.502†	30317.0	23170.1	520.66 ug/L	520.66 ppb	21:37:05
2	Co 228.616†	18516.4	14085.3	517.92 ug/L	517.92 ppb	21:37:05
2	Cr 267.716†	30595.2	23101.8	513.99 ug/L	513.99 ppb	21:37:05
2	Cu 324.752†	138832.2	99952.0	513.39 ug/L	513.39 ppb	21:37:05
2	Mn 257.610†	342643.1	259154.5	504.74 ug/L	504.74 ppb	21:37:00
2	Mo 202.031†	4706.5	3560.0	499.07 ug/L	499.07 ppb	21:37:26
2	Ni 231.604†	14125.7	10624.4	515.01 ug/L	515.01 ppb	21:37:05

2	P 214.914†	3529.8	2459.8	2399.5 ug/L	2399.5 ppb	21:37:26
2	Pb 220.353†	2732.7	2132.3	502.46 ug/L	502.46 ppb	21:37:26
2	S 181.975 Axial†	589.0	410.9	1009.2 ug/L	1009.2 ppb	21:37:26
2	Sb 206.836†	1139.9	825.0	520.79 ug/L	520.79 ppb	21:37:26
2	Se 196.026†	544.7	438.2	523.07 ug/L	523.07 ppb	21:37:26
2	Si 251.611†	62731.7	46934.2	2620.3 ug/L	2620.3 ppb	21:37:05
2	Sn 189.927†	1935.9	1456.0	502.42 ug/L	502.42 ppb	21:37:26
2	Ti 334.940†	251015.3	191594.9	509.61 ug/L	509.61 ppb	21:37:05
2	Tl 190.801†	1129.0	882.3	508.51 ug/L	508.51 ppb	21:37:26
2	U 409.014†	9656.8	10055.5	549.77 ug/L	549.77 ppb	21:37:05
2	V 292.402†	49296.8	38932.3	522.00 ug/L	522.00 ppb	21:37:05
2	Zn 213.857†	39609.3	29354.8	515.71 ug/L	515.71 ppb	21:37:05
2	SiO2†	65117.7	48741.3	5812.9 ug/L	5812.9 ppb	21:38:07
3	Sc Radial	3862.5	3862.5	123 %		21:36:22
3	Y RADIAL	4369.9	4369.9	127.3 %		21:36:02
3	Al 396.153Radial†	4199.5	3505.9	4586.7 ug/L	4586.7 ppb	21:36:02
3	Ca 317.933Radial†	2505.8	2021.5	4771.3 ug/L	4771.3 ppb	21:36:22
3	Fe 238.204 Radial†	392.0	312.7	5127.9 ug/L	5127.9 ppb	21:36:22
3	K 766.490 Radial†	26703.1	18910.5	4737.0 ug/L	4737.0 ppb	21:36:02
3	Mg 279.077 IEC†	120.3	96.4	5090.7 ug/L	5090.7 ppb	21:36:22
3	Na 589.592 Radial†	21665.1	18241.8	10379 ug/L	10379 ppb	21:36:02
3	Sr 421.552†	49330.1	40120.0	510.69 ug/L	510.69 ppb	21:36:02
3	Sc 361.383	681742.0	681742.0	137.54 %		21:37:31
3	Y 371.029	460810.0	460810.0	111.33 %		21:37:36
3	Ag 328.068†	81077.4	58825.8	491.35 ug/L	491.35 ppb	21:37:36
3	As 188.979†	860.4	648.2	508.61 ug/L	508.61 ppb	21:37:56
3	B 249.677†	16912.3	12703.8	488.50 ug/L	488.50 ppb	21:37:36
3	Ba 233.527†	46666.5	33936.0	490.22 ug/L	490.22 ppb	21:37:36
3	Be 313.107†	1106327.5	808231.7	499.41 ug/L	499.41 ppb	21:37:31
3	Cd 226.502†	29969.2	21991.5	494.13 ug/L	494.13 ppb	21:37:36
3	Co 228.616†	18328.4	13383.2	492.14 ug/L	492.14 ppb	21:37:36
3	Cr 267.716†	30241.1	21910.1	487.52 ug/L	487.52 ppb	21:37:36
3	Cu 324.752†	136701.7	94164.0	483.68 ug/L	483.68 ppb	21:37:36
3	Mn 257.610†	356012.2	258412.0	503.30 ug/L	503.30 ppb	21:37:31
3	Mo 202.031†	4832.9	3508.1	491.82 ug/L	491.82 ppb	21:37:56
3	Ni 231.604†	13933.6	10053.4	487.33 ug/L	487.33 ppb	21:37:36
3	P 214.914†	3647.6	2437.6	2382.7 ug/L	2382.7 ppb	21:37:56
3	Pb 220.353†	2830.1	2119.6	499.49 ug/L	499.49 ppb	21:37:56
3	S 181.975 Axial†	614.4	411.3	1010.2 ug/L	1010.2 ppb	21:37:56
3	Sb 206.836†	1171.8	813.4	513.41 ug/L	513.41 ppb	21:37:56
3	Se 196.026†	567.2	437.9	522.98 ug/L	522.98 ppb	21:37:56
3	Si 251.611†	61989.6	44479.2	2483.0 ug/L	2483.0 ppb	21:37:36
3	Sn 189.927†	1981.5	1430.0	493.53 ug/L	493.53 ppb	21:37:56
3	Ti 334.940†	247299.9	181229.0	482.06 ug/L	482.06 ppb	21:37:36
3	Tl 190.801†	1154.0	866.0	499.12 ug/L	499.12 ppb	21:37:56
3	U 409.014†	9110.1	9363.2	511.84 ug/L	511.84 ppb	21:37:36
3	V 292.402†	48582.7	36907.8	495.06 ug/L	495.06 ppb	21:37:36
3	Zn 213.857†	39048.9	27737.8	487.25 ug/L	487.25 ppb	21:37:36
3	SiO2†	65930.2	47343.7	5646.0 ug/L	5646.0 ppb	21:38:12

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	668185.7	134.81 %	2.773			2.06%
Sc Radial	3863.1	123 %	1.6			1.34%
Y 371.029	461437.3	111.48 %	0.206			0.18%
Y RADIAL	4128.6	120.3 %	6.62			5.51%
Ag 328.068†	60526.2	505.50 ug/L	14.403	505.50 ppb	14.403	2.85%
QC value within limits for Ag 328.068 Recovery = 101.10%						
Al 396.153Radial†	3520.8	4606.1 ug/L	69.20	4606.1 ppb	69.20	1.50%
QC value within limits for Al 396.153Radial Recovery = 92.12%						
As 188.979†	647.2	507.99 ug/L	5.076	507.99 ppb	5.076	1.00%
QC value within limits for As 188.979 Recovery = 101.60%						
B 249.677†	12982.3	499.21 ug/L	10.926	499.21 ppb	10.926	2.19%
QC value within limits for B 249.677 Recovery = 99.84%						
Ba 233.527†	34962.4	505.04 ug/L	14.066	505.04 ppb	14.066	2.79%
QC value within limits for Ba 233.527 Recovery = 101.01%						
Be 313.107†	807702.1	499.12 ug/L	0.566	499.12 ppb	0.566	0.11%
QC value within limits for Be 313.107 Recovery = 99.82%						
Ca 317.933Radial†	2016.5	4759.5 ug/L	103.29	4759.5 ppb	103.29	2.17%

QC value within limits for Ca 317.933 Radial Recovery = 95.19%							
Cd	226.502†	22620.2	508.27 ug/L	13.350	508.27 ppb	13.350	2.63%
QC value within limits for Cd 226.502 Recovery = 101.65%							
Co	228.616†	13765.3	506.17 ug/L	13.038	506.17 ppb	13.038	2.58%
QC value within limits for Co 228.616 Recovery = 101.23%							
Cr	267.716†	22567.2	502.12 ug/L	13.445	502.12 ppb	13.445	2.68%
QC value within limits for Cr 267.716 Recovery = 100.42%							
Cu	324.752†	97028.5	498.39 ug/L	14.855	498.39 ppb	14.855	2.98%
QC value within limits for Cu 324.752 Recovery = 99.68%							
Fe	238.204 Radial†	312.6	5126.9 ug/L	102.42	5126.9 ppb	102.42	2.00%
QC value within limits for Fe 238.204 Radial Recovery = 102.54%							
K	766.490 Radial†	19045.5	4770.8 ug/L	108.22	4770.8 ppb	108.22	2.27%
QC value within limits for K 766.490 Radial Recovery = 95.42%							
Mg	279.077 IEC†	96.2	5081.1 ug/L	139.91	5081.1 ppb	139.91	2.75%
QC value within limits for Mg 279.077 IEC Recovery = 101.62%							
Mn	257.610†	258654.2	503.77 ug/L	0.840	503.77 ppb	0.840	0.17%
QC value within limits for Mn 257.610 Recovery = 100.75%							
Mo	202.031†	3523.4	493.95 ug/L	4.451	493.95 ppb	4.451	0.90%
QC value within limits for Mo 202.031 Recovery = 98.79%							
Na	589.592 Radial†	18380.5	10458 ug/L	227.4	10458 ppb	227.4	2.17%
QC value within limits for Na 589.592 Radial Recovery = 104.58%							
Ni	231.604†	10362.6	502.32 ug/L	13.981	502.32 ppb	13.981	2.78%
QC value within limits for Ni 231.604 Recovery = 100.46%							
P	214.914†	2436.8	2379.0 ug/L	22.64	2379.0 ppb	22.64	0.95%
QC value within limits for P 214.914 Recovery = 95.16%							
Pb	220.353†	2111.4	497.55 ug/L	6.109	497.55 ppb	6.109	1.23%
QC value within limits for Pb 220.353 Recovery = 99.51%							
S	181.975 Axial†	409.3	1005.2 ug/L	7.82	1005.2 ppb	7.82	0.78%
QC value within limits for S 181.975 Axial Recovery = 100.52%							
Sb	206.836†	815.3	514.63 ug/L	5.642	514.63 ppb	5.642	1.10%
QC value within limits for Sb 206.836 Recovery = 102.93%							
Se	196.026†	436.8	521.70 ug/L	2.296	521.70 ppb	2.296	0.44%
QC value within limits for Se 196.026 Recovery = 104.34%							
Si	251.611†	45776.5	2555.6 ug/L	68.98	2555.6 ppb	68.98	2.70%
QC value within limits for Si 251.611 Recovery = 102.22%							
Sn	189.927†	1436.1	495.64 ug/L	6.007	495.64 ppb	6.007	1.21%
QC value within limits for Sn 189.927 Recovery = 99.13%							
Sr	421.552†	40333.7	513.41 ug/L	10.281	513.41 ppb	10.281	2.00%
QC value within limits for Sr 421.552 Recovery = 102.68%							
Ti	334.940†	186408.9	495.83 ug/L	13.776	495.83 ppb	13.776	2.78%
QC value within limits for Ti 334.940 Recovery = 99.17%							
Tl	190.801†	873.5	503.42 ug/L	4.744	503.42 ppb	4.744	0.94%
QC value within limits for Tl 190.801 Recovery = 100.68%							
U	409.014†	9697.7	530.15 ug/L	18.995	530.15 ppb	18.995	3.58%
QC value within limits for U 409.014 Recovery = 106.03%							
V	292.402†	37941.7	508.78 ug/L	13.478	508.78 ppb	13.478	2.65%
QC value within limits for V 292.402 Recovery = 101.76%							
Zn	213.857†	28582.8	502.11 ug/L	14.275	502.11 ppb	14.275	2.84%
QC value within limits for Zn 213.857 Recovery = 100.42%							
SiO2†		47560.5	5671.9 ug/L	130.03	5671.9 ppb	130.03	2.29%
QC value within limits for SiO2 Recovery = 106.07%							

All analyte(s) passed QC.

Sequence No.: 34

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/29/2010 21:40:23

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3850.6	3850.6	122 %		21:42:35
1	Y RADIAL	4244.3	4244.3	123.7 %		21:42:14
1	Al 396.153Radial†	-103.1	3.6	4.6574 ug/L	4.6574 ppb	21:42:14
1	Ca 317.933Radial†	17.8	-3.6	-8.4033 ug/L	-8.4033 ppb	21:42:35
1	Fe 238.204 Radial†	7.7	-0.1	-1.3509 ug/L	-1.3509 ppb	21:42:35
1	K 766.490 Radial†	2904.8	-452.8	-113.60 ug/L	-113.60 ppb	21:42:14
1	Mg 279.077 IEC†	5.5	3.0	158.81 ug/L	158.81 ppb	21:42:35
1	Na 589.592 Radial†	-657.1	71.0	40.384 ug/L	40.384 ppb	21:42:14
1	Sr 421.552†	27.6	-9.7	-0.1232 ug/L	-0.1232 ppb	21:42:14
1	Sc 361.383	683750.1	683750.1	137.95 %		21:43:31
1	Y 371.029	535966.9	535966.9	129.49 %		21:43:31
1	Ag 328.068†	53.7	-81.5	-0.6997 ug/L	-0.6997 ppb	21:43:31
1	As 188.979†	-22.4	6.4	4.9781 ug/L	4.9781 ppb	21:43:51
1	B 249.677†	-421.0	102.8	3.9690 ug/L	3.9690 ppb	21:43:51
1	Ba 233.527†	3.3	10.1	0.1566 ug/L	0.1566 ppb	21:43:51
1	Be 313.107†	-4324.6	755.7	0.4684 ug/L	0.4684 ppb	21:43:31
1	Cd 226.502†	-198.6	58.8	1.3319 ug/L	1.3319 ppb	21:43:51
1	Co 228.616†	-58.9	15.0	0.5546 ug/L	0.5546 ppb	21:43:51
1	Cr 267.716†	55.9	-35.8	-0.8080 ug/L	-0.8080 ppb	21:43:51
1	Cu 324.752†	5528.7	-1215.5	-6.2730 ug/L	-6.2730 ppb	21:43:31
1	Mn 257.610†	469.9	-81.4	-0.1651 ug/L	-0.1651 ppb	21:43:51
1	Mo 202.031†	22.8	10.9	1.5283 ug/L	1.5283 ppb	21:43:51
1	Ni 231.604†	84.7	-15.5	-0.7498 ug/L	-0.7498 ppb	21:43:51
1	P 214.914†	224.1	-51.8	-51.445 ug/L	-51.445 ppb	21:43:51
1	Pb 220.353†	-51.5	24.7	5.8115 ug/L	5.8115 ppb	21:43:51
1	S 181.975 Axial†	35.2	-9.8	-24.165 ug/L	-24.165 ppb	21:43:51
1	Sb 206.836†	41.0	-8.8	-5.3369 ug/L	-5.3369 ppb	21:43:51
1	Se 196.026†	-29.3	4.3	4.9199 ug/L	4.9199 ppb	21:43:51
1	Si 251.611†	661.9	-109.7	-6.1568 ug/L	-6.1568 ppb	21:43:51
1	Sn 189.927†	11.0	-2.7	-0.9196 ug/L	-0.9196 ppb	21:43:51
1	Ti 334.940†	-1427.8	397.8	1.0217 ug/L	1.0217 ppb	21:43:31
1	Tl 190.801†	-22.4	10.8	6.1963 ug/L	6.1963 ppb	21:43:51
1	U 409.014†	-2454.7	960.4	52.673 ug/L	52.673 ppb	21:43:31
1	V 292.402†	-1664.8	379.6	5.1483 ug/L	5.1483 ppb	21:43:31
1	Zn 213.857†	617.3	-204.7	-3.6151 ug/L	-3.6151 ppb	21:43:51
1	SiO2†	693.3	-87.4	-10.493 ug/L	-10.493 ppb	21:44:47
2	Sc Radial	3882.6	3882.6	123 %		21:43:00
2	Y RADIAL	4171.4	4171.4	121.5 %		21:42:40
2	Al 396.153Radial†	-99.2	7.4	9.7032 ug/L	9.7032 ppb	21:42:40
2	Ca 317.933Radial†	9.9	-10.1	-23.861 ug/L	-23.861 ppb	21:43:00
2	Fe 238.204 Radial†	7.0	-0.7	-12.110 ug/L	-12.110 ppb	21:43:00
2	K 766.490 Radial†	2816.2	-544.1	-136.49 ug/L	-136.49 ppb	21:42:40
2	Mg 279.077 IEC†	0.6	-1.0	-51.616 ug/L	-51.616 ppb	21:43:00
2	Na 589.592 Radial†	-684.6	53.2	30.245 ug/L	30.245 ppb	21:42:40
2	Sr 421.552†	5.9	-27.5	-0.3498 ug/L	-0.3498 ppb	21:42:40
2	Sc 361.383	678409.7	678409.7	136.87 %		21:43:57
2	Y 371.029	530602.5	530602.5	128.20 %		21:43:57
2	Ag 328.068†	129.5	-25.9	-0.2466 ug/L	-0.2466 ppb	21:43:57
2	As 188.979†	-25.2	4.2	3.2606 ug/L	3.2606 ppb	21:44:17
2	B 249.677†	-432.4	92.0	3.5554 ug/L	3.5554 ppb	21:44:17
2	Ba 233.527†	17.5	20.5	0.3049 ug/L	0.3049 ppb	21:44:17
2	Be 313.107†	-4364.0	702.3	0.4355 ug/L	0.4355 ppb	21:43:57
2	Cd 226.502†	-211.3	48.5	1.1016 ug/L	1.1016 ppb	21:44:17
2	Co 228.616†	-68.2	7.9	0.2920 ug/L	0.2920 ppb	21:44:17
2	Cr 267.716†	86.6	-13.0	-0.3061 ug/L	-0.3061 ppb	21:44:17
2	Cu 324.752†	5451.9	-1240.0	-6.4026 ug/L	-6.4026 ppb	21:43:57
2	Mn 257.610†	458.5	-87.0	-0.1685 ug/L	-0.1685 ppb	21:44:17
2	Mo 202.031†	15.8	5.9	0.8300 ug/L	0.8300 ppb	21:44:17
2	Ni 231.604†	87.3	-13.0	-0.6328 ug/L	-0.6328 ppb	21:44:17

2	P 214.914†	219.7	-53.8	-53.433 ug/L	-53.433 ppb	21:44:17
2	Pb 220.353†	-60.9	17.5	4.1258 ug/L	4.1258 ppb	21:44:17
2	S 181.975 Axial†	35.4	-9.4	-23.200 ug/L	-23.200 ppb	21:44:17
2	Sb 206.836†	32.4	-14.8	-9.0137 ug/L	-9.0137 ppb	21:44:17
2	Se 196.026†	-31.9	2.2	2.5380 ug/L	2.5380 ppb	21:44:17
2	Si 251.611†	660.8	-106.7	-5.9839 ug/L	-5.9839 ppb	21:44:17
2	Sn 189.927†	6.4	-6.0	-2.0636 ug/L	-2.0636 ppb	21:44:17
2	Ti 334.940†	-1394.4	414.1	1.0776 ug/L	1.0776 ppb	21:43:57
2	Tl 190.801†	-37.1	-0.1	-0.0321 ug/L	-0.0321 ppb	21:44:17
2	U 409.014†	-2299.8	1059.6	58.112 ug/L	58.112 ppb	21:43:57
2	V 292.402†	-1689.6	352.0	4.7810 ug/L	4.7810 ppb	21:43:57
2	Zn 213.857†	619.4	-199.6	-3.5247 ug/L	-3.5247 ppb	21:44:17
2	SiO2†	673.4	-98.1	-11.744 ug/L	-11.744 ppb	21:44:52
3	Sc Radial	3922.9	3922.9	125 %		21:43:25
3	Y RADIAL	4319.0	4319.0	125.8 %		21:43:05
3	Al 396.153Radial†	-82.3	21.8	28.609 ug/L	28.609 ppb	21:43:05
3	Ca 317.933Radial†	8.7	-11.1	-26.313 ug/L	-26.313 ppb	21:43:25
3	Fe 238.204 Radial†	7.4	-0.4	-7.1837 ug/L	-7.1837 ppb	21:43:25
3	K 766.490 Radial†	2774.9	-600.7	-150.68 ug/L	-150.68 ppb	21:43:05
3	Mg 279.077 IEC†	1.6	-0.2	-10.988 ug/L	-10.988 ppb	21:43:25
3	Na 589.592 Radial†	-702.1	44.8	25.516 ug/L	25.516 ppb	21:43:05
3	Sr 421.552†	28.8	-9.1	-0.1161 ug/L	-0.1161 ppb	21:43:05
3	Sc 361.383	690730.0	690730.0	139.36 %		21:44:22
3	Y 371.029	541209.4	541209.4	130.76 %		21:44:22
3	Ag 328.068†	173.4	4.0	0.0030 ug/L	0.0030 ppb	21:44:22
3	As 188.979†	-32.6	-0.8	-0.5942 ug/L	-0.5942 ppb	21:44:42
3	B 249.677†	-425.1	102.9	3.9748 ug/L	3.9748 ppb	21:44:42
3	Ba 233.527†	-17.4	-4.8	-0.0580 ug/L	-0.0580 ppb	21:44:42
3	Be 313.107†	-4443.8	701.9	0.4355 ug/L	0.4355 ppb	21:44:22
3	Cd 226.502†	-203.4	56.8	1.2894 ug/L	1.2894 ppb	21:44:42
3	Co 228.616†	-58.7	15.6	0.5736 ug/L	0.5736 ppb	21:44:42
3	Cr 267.716†	72.1	-24.5	-0.5617 ug/L	-0.5617 ppb	21:44:42
3	Cu 324.752†	5553.0	-1238.6	-6.3952 ug/L	-6.3952 ppb	21:44:22
3	Mn 257.610†	486.1	-73.2	-0.1428 ug/L	-0.1428 ppb	21:44:42
3	Mo 202.031†	13.8	4.3	0.6008 ug/L	0.6008 ppb	21:44:42
3	Ni 231.604†	87.9	-13.8	-0.6695 ug/L	-0.6695 ppb	21:44:42
3	P 214.914†	213.7	-61.0	-60.686 ug/L	-60.686 ppb	21:44:42
3	Pb 220.353†	-72.4	10.1	2.3792 ug/L	2.3792 ppb	21:44:42
3	S 181.975 Axial†	38.2	-7.9	-19.470 ug/L	-19.470 ppb	21:44:42
3	Sb 206.836†	35.2	-13.2	-8.0917 ug/L	-8.0917 ppb	21:44:42
3	Se 196.026†	-27.3	5.9	6.8532 ug/L	6.8532 ppb	21:44:42
3	Si 251.611†	648.5	-124.2	-6.9583 ug/L	-6.9583 ppb	21:44:42
3	Sn 189.927†	4.8	-7.2	-2.4859 ug/L	-2.4859 ppb	21:44:42
3	Ti 334.940†	-1354.3	461.0	1.1985 ug/L	1.1985 ppb	21:44:22
3	Tl 190.801†	-34.0	2.7	1.5228 ug/L	1.5228 ppb	21:44:42
3	U 409.014†	-2321.7	1073.8	58.893 ug/L	58.893 ppb	21:44:22
3	V 292.402†	-1694.0	370.9	5.0293 ug/L	5.0293 ppb	21:44:22
3	Zn 213.857†	624.4	-204.1	-3.6040 ug/L	-3.6040 ppb	21:44:42
3	SiO2†	673.5	-106.7	-12.776 ug/L	-12.776 ppb	21:44:57

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	684296.6	138.06 %		1.246				0.90%
Sc Radial	3885.4	124 %		1.2				0.93%
Y 371.029	535926.3	129.48 %		1.281				0.99%
Y RADIAL	4244.9	123.7 %		2.15				1.74%
Ag 328.068†	-34.5	-0.3144 ug/L		0.35620	-0.3144 ppb		0.35620	113.29%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	10.9	14.323 ug/L		12.6263	14.323 ppb		12.6263	88.15%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	3.3	2.5482 ug/L		2.85365	2.5482 ppb		2.85365	111.99%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	99.2	3.8331 ug/L		0.24049	3.8331 ppb		0.24049	6.27%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	8.6	0.1345 ug/L		0.18247	0.1345 ppb		0.18247	135.68%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	720.0	0.4465 ug/L		0.01896	0.4465 ppb		0.01896	4.25%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	-8.3	-19.526 ug/L		9.7102	-19.526 ppb		9.7102	49.73%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	54.7	1.2409 ug/L	0.12255	1.2409 ppb	0.12255	9.88%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	12.9	0.4734 ug/L	0.15737	0.4734 ppb	0.15737	33.24%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-24.4	-0.5586 ug/L	0.25094	-0.5586 ppb	0.25094	44.92%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-1231.4	-6.3569 ug/L	0.07279	-6.3569 ppb	0.07279	1.14%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.4	-6.8816 ug/L	5.38601	-6.8816 ppb	5.38601	78.27%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-532.5	-133.59 ug/L	18.710	-133.59 ppb	18.710	14.01%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.6	32.069 ug/L	111.6264	32.069 ppb	111.6264	348.08%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-80.6	-0.1588 ug/L	0.01398	-0.1588 ppb	0.01398	8.80%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	7.0	0.9864 ug/L	0.48313	0.9864 ppb	0.48313	48.98%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	56.3	32.049 ug/L	7.5965	32.049 ppb	7.5965	23.70%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-14.1	-0.6840 ug/L	0.05982	-0.6840 ppb	0.05982	8.75%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-55.5	-55.188 ug/L	4.8638	-55.188 ppb	4.8638	8.81%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	17.4	4.1055 ug/L	1.71624	4.1055 ppb	1.71624	41.80%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-9.1	-22.278 ug/L	2.4797	-22.278 ppb	2.4797	11.13%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-12.3	-7.4808 ug/L	1.91303	-7.4808 ppb	1.91303	25.57%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	4.1	4.7704 ug/L	2.16148	4.7704 ppb	2.16148	45.31%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-113.5	-6.3663 ug/L	0.51991	-6.3663 ppb	0.51991	8.17%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-5.3	-1.8231 ug/L	0.81036	-1.8231 ppb	0.81036	44.45%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-15.4	-0.1964 ug/L	0.13292	-0.1964 ppb	0.13292	67.69%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	424.3	1.0993 ug/L	0.09037	1.0993 ppb	0.09037	8.22%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	4.5	2.5623 ug/L	3.24173	2.5623 ppb	3.24173	126.51%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	1031.2	56.559 ug/L	3.3880	56.559 ppb	3.3880	5.99%	
QC value greater than the upper limit for U 409.014 Recovery = Not calculated							
V 292.402†	367.5	4.9862 ug/L	0.18739	4.9862 ppb	0.18739	3.76%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-202.8	-3.5813 ug/L	0.04927	-3.5813 ppb	0.04927	1.38%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	-97.4	-11.671 ug/L	1.1430	-11.671 ppb	1.1430	9.79%	
QC value within limits for SiO2 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 43

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/29/2010 22:43:41

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	4328.7	4328.7	138 %		22:45:33
1	Y RADIAL	4669.4	4669.4	136.0 %		22:45:33
1	Al 396.153Radial†	4320.1	3225.3	4218.0 ug/L	4218.0 ppb	22:45:33
1	Ca 317.933Radial†	2521.4	1813.1	4279.5 ug/L	4279.5 ppb	22:45:53
1	Fe 238.204 Radial†	385.5	273.6	4488.7 ug/L	4488.7 ppb	22:45:53
1	K 766.490 Radial†	27387.7	17066.7	4275.1 ug/L	4275.1 ppb	22:45:33
1	Mg 279.077 IEC†	120.7	86.2	4550.0 ug/L	4550.0 ppb	22:45:53
1	Na 589.592 Radial†	21403.6	16152.5	9190.7 ug/L	9190.7 ppb	22:45:33
1	Sr 421.552†	49603.1	35993.6	458.17 ug/L	458.17 ppb	22:45:33
1	Sc 361.383	679292.7	679292.7	137.05 %		22:46:50
1	Y 371.029	461743.9	461743.9	111.56 %		22:46:55
1	Ag 328.068†	82341.3	59960.6	500.60 ug/L	500.60 ppb	22:46:55
1	As 188.979†	857.1	648.0	508.42 ug/L	508.42 ppb	22:47:15
1	B 249.677†	16928.1	12759.7	490.73 ug/L	490.73 ppb	22:46:55
1	Ba 233.527†	47297.1	34518.4	498.61 ug/L	498.61 ppb	22:46:55
1	Be 313.107†	1104289.7	809645.1	500.30 ug/L	500.30 ppb	22:46:50
1	Cd 226.502†	30348.3	22346.7	502.19 ug/L	502.19 ppb	22:46:55
1	Co 228.616†	18610.5	13637.0	501.46 ug/L	501.46 ppb	22:46:55
1	Cr 267.716†	30624.4	22269.1	495.43 ug/L	495.43 ppb	22:46:55
1	Cu 324.752†	138324.7	95706.5	491.57 ug/L	491.57 ppb	22:46:55
1	Mn 257.610†	356704.6	259850.5	506.06 ug/L	506.06 ppb	22:46:50
1	Mo 202.031†	4758.7	3466.6	485.95 ug/L	485.95 ppb	22:47:15
1	Ni 231.604†	14138.7	10239.6	496.35 ug/L	496.35 ppb	22:46:55
1	P 214.914†	3582.3	2399.5	2342.8 ug/L	2342.8 ppb	22:47:15
1	Pb 220.353†	2782.2	2092.1	492.97 ug/L	492.97 ppb	22:47:15
1	S 181.975 Axial†	606.9	407.5	1000.9 ug/L	1000.9 ppb	22:47:15
1	Sb 206.836†	1138.5	792.2	500.37 ug/L	500.37 ppb	22:47:15
1	Se 196.026†	561.1	434.9	517.73 ug/L	517.73 ppb	22:47:15
1	Si 251.611†	62654.9	45127.1	2519.3 ug/L	2519.3 ppb	22:46:55
1	Sn 189.927†	1965.4	1423.4	491.09 ug/L	491.09 ppb	22:47:15
1	Ti 334.940†	250045.5	183880.7	489.09 ug/L	489.09 ppb	22:46:55
1	Tl 190.801†	1135.1	855.3	492.99 ug/L	492.99 ppb	22:47:15
1	U 409.014†	9262.2	9498.0	519.29 ug/L	519.29 ppb	22:46:55
1	V 292.402†	49225.8	37504.5	502.96 ug/L	502.96 ppb	22:46:55
1	Zn 213.857†	39718.6	28328.9	497.75 ug/L	497.75 ppb	22:46:55
1	SiO2†	64099.8	46181.0	5507.2 ug/L	5507.2 ppb	22:48:22
2	Sc Radial	3895.2	3895.2	124 %		22:45:58
2	Y RADIAL	4190.9	4190.9	122.1 %		22:45:58
2	Al 396.153Radial†	4215.9	3490.4	4566.1 ug/L	4566.1 ppb	22:45:58
2	Ca 317.933Radial†	2518.2	2014.4	4754.4 ug/L	4754.4 ppb	22:46:18
2	Fe 238.204 Radial†	386.7	305.7	5014.1 ug/L	5014.1 ppb	22:46:18
2	K 766.490 Radial†	26837.0	18835.9	4718.5 ug/L	4718.5 ppb	22:45:58
2	Mg 279.077 IEC†	122.1	97.1	5124.9 ug/L	5124.9 ppb	22:46:18
2	Na 589.592 Radial†	20534.8	17181.3	9776.0 ug/L	9776.0 ppb	22:45:58
2	Sr 421.552†	48105.7	38794.3	493.82 ug/L	493.82 ppb	22:45:58
2	Sc 361.383	677333.9	677333.9	136.66 %		22:47:21
2	Y 371.029	462259.0	462259.0	111.68 %		22:47:26
2	Ag 328.068†	80726.3	58952.6	492.36 ug/L	492.36 ppb	22:47:26
2	As 188.979†	872.5	661.1	518.61 ug/L	518.61 ppb	22:47:46
2	B 249.677†	16637.3	12582.6	483.83 ug/L	483.83 ppb	22:47:26
2	Ba 233.527†	46406.9	33966.8	490.66 ug/L	490.66 ppb	22:47:26
2	Be 313.107†	1101347.7	809822.4	500.39 ug/L	500.39 ppb	22:47:21
2	Cd 226.502†	29675.3	21918.3	492.50 ug/L	492.50 ppb	22:47:26
2	Co 228.616†	18174.4	13357.2	491.21 ug/L	491.21 ppb	22:47:26
2	Cr 267.716†	30059.4	21920.2	487.73 ug/L	487.73 ppb	22:47:26
2	Cu 324.752†	135782.0	94137.7	483.54 ug/L	483.54 ppb	22:47:26
2	Mn 257.610†	355150.7	259466.1	505.34 ug/L	505.34 ppb	22:47:21
2	Mo 202.031†	4858.1	3549.4	497.60 ug/L	497.60 ppb	22:47:46
2	Ni 231.604†	13824.8	10039.7	486.67 ug/L	486.67 ppb	22:47:26

2	P 214.914†	3671.5	2472.4	2418.2 ug/L	2418.2 ppb	22:47:46
2	Pb 220.353†	2826.5	2130.4	502.03 ug/L	502.03 ppb	22:47:46
2	S 181.975 Axial†	624.5	421.6	1035.5 ug/L	1035.5 ppb	22:47:46
2	Sb 206.836†	1181.4	826.0	521.33 ug/L	521.33 ppb	22:47:46
2	Se 196.026†	571.7	443.8	529.60 ug/L	529.60 ppb	22:47:46
2	Si 251.611†	61421.1	44356.5	2476.0 ug/L	2476.0 ppb	22:47:26
2	Sn 189.927†	1997.6	1451.1	500.78 ug/L	500.78 ppb	22:47:46
2	Ti 334.940†	245436.2	181035.4	481.54 ug/L	481.54 ppb	22:47:26
2	Tl 190.801†	1162.2	877.5	505.68 ug/L	505.68 ppb	22:47:46
2	U 409.014†	9267.5	9521.5	520.54 ug/L	520.54 ppb	22:47:26
2	V 292.402†	48261.1	36902.4	495.10 ug/L	495.10 ppb	22:47:26
2	Zn 213.857†	38852.4	27778.8	487.99 ug/L	487.99 ppb	22:47:26
2	SiO2†	64379.7	46521.0	5547.5 ug/L	5547.5 ppb	22:48:27
3	Sc Radial	4144.2	4144.2	132 %		22:46:23
3	Y RADIAL	4441.7	4441.7	129.4 %		22:46:23
3	Al 396.153Radial†	4447.7	3461.8	4529.4 ug/L	4529.4 ppb	22:46:23
3	Ca 317.933Radial†	2500.1	1878.5	4433.7 ug/L	4433.7 ppb	22:46:43
3	Fe 238.204 Radial†	383.7	284.7	4670.6 ug/L	4670.6 ppb	22:46:43
3	K 766.490 Radial†	28011.1	18425.2	4615.7 ug/L	4615.7 ppb	22:46:23
3	Mg 279.077 IEC†	120.1	89.6	4733.1 ug/L	4733.1 ppb	22:46:43
3	Na 589.592 Radial†	21644.8	17027.6	9688.6 ug/L	9688.6 ppb	22:46:23
3	Sr 421.552†	50630.2	38376.6	488.50 ug/L	488.50 ppb	22:46:23
3	Sc 361.383	704427.7	704427.7	142.12 %		22:47:52
3	Y 371.029	468449.6	468449.6	113.18 %		22:47:57
3	Ag 328.068†	85140.5	59786.4	499.19 ug/L	499.19 ppb	22:47:57
3	As 188.979†	862.5	629.5	494.03 ug/L	494.03 ppb	22:48:17
3	B 249.677†	17734.3	12886.2	495.60 ug/L	495.60 ppb	22:47:57
3	Ba 233.527†	48517.7	34145.9	493.24 ug/L	493.24 ppb	22:47:57
3	Be 313.107†	1149456.9	812675.3	502.16 ug/L	502.16 ppb	22:47:52
3	Cd 226.502†	31235.2	22180.6	498.44 ug/L	498.44 ppb	22:47:57
3	Co 228.616†	19126.4	13515.5	496.97 ug/L	496.97 ppb	22:47:57
3	Cr 267.716†	31537.8	22114.5	492.01 ug/L	492.01 ppb	22:47:57
3	Cu 324.752†	144015.3	96109.3	493.64 ug/L	493.64 ppb	22:47:57
3	Mn 257.610†	368446.4	258825.4	504.08 ug/L	504.08 ppb	22:47:52
3	Mo 202.031†	4844.1	3402.8	477.03 ug/L	477.03 ppb	22:48:17
3	Ni 231.604†	14560.4	10168.2	492.89 ug/L	492.89 ppb	22:47:57
3	P 214.914†	3683.0	2377.1	2319.5 ug/L	2319.5 ppb	22:48:17
3	Pb 220.353†	2823.5	2048.8	482.83 ug/L	482.83 ppb	22:48:17
3	S 181.975 Axial†	617.4	399.1	980.17 ug/L	980.17 ppb	22:48:17
3	Sb 206.836†	1178.7	790.9	499.17 ug/L	499.17 ppb	22:48:17
3	Se 196.026†	581.8	434.9	518.25 ug/L	518.25 ppb	22:48:17
3	Si 251.611†	64852.8	45042.4	2514.7 ug/L	2514.7 ppb	22:47:57
3	Sn 189.927†	1989.9	1389.5	479.46 ug/L	479.46 ppb	22:48:17
3	Ti 334.940†	258322.3	183194.4	487.27 ug/L	487.27 ppb	22:47:57
3	Tl 190.801†	1161.0	844.0	486.50 ug/L	486.50 ppb	22:48:17
3	U 409.014†	9741.9	9594.5	524.57 ug/L	524.57 ppb	22:47:57
3	V 292.402†	50720.5	37274.6	499.78 ug/L	499.78 ppb	22:47:57
3	Zn 213.857†	40980.0	28182.3	495.15 ug/L	495.15 ppb	22:47:57
3	SiO2†	64570.9	44843.6	5347.6 ug/L	5347.6 ppb	22:48:32

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	687018.1	138.61 %	3.048			2.20%
Sc Radial	4122.7	131 %	6.9			5.28%
Y 371.029	464150.8	112.14 %	0.902			0.80%
Y RADIAL	4434.0	129.2 %	6.97			5.40%
Ag 328.068†	59566.5	497.39 ug/L	4.410	497.39 ppb	4.410	0.89%
QC value within limits for Ag 328.068 Recovery = 99.48%						
Al 396.153Radial†	3392.5	4437.8 ug/L	191.26	4437.8 ppb	191.26	4.31%
QC value less than the lower limit for Al 396.153Radial Recovery = 88.76%						
As 188.979†	646.2	507.02 ug/L	12.346	507.02 ppb	12.346	2.44%
QC value within limits for As 188.979 Recovery = 101.40%						
B 249.677†	12742.8	490.06 ug/L	5.914	490.06 ppb	5.914	1.21%
QC value within limits for B 249.677 Recovery = 98.01%						
Ba 233.527†	34210.4	494.17 ug/L	4.055	494.17 ppb	4.055	0.82%
QC value within limits for Ba 233.527 Recovery = 98.83%						
Be 313.107†	810714.3	500.95 ug/L	1.051	500.95 ppb	1.051	0.21%
QC value within limits for Be 313.107 Recovery = 100.19%						
Ca 317.933Radial†	1902.0	4489.2 ug/L	242.27	4489.2 ppb	242.27	5.40%

QC value less than the lower limit for Ca 317.933 Radial Recovery = 89.78%

Cd	226.502†	22148.5	497.71 ug/L	4.885	497.71 ppb	4.885	0.98%
QC value within limits for Cd 226.502 Recovery = 99.54%							
Co	228.616†	13503.3	496.55 ug/L	5.139	496.55 ppb	5.139	1.04%
QC value within limits for Co 228.616 Recovery = 99.31%							
Cr	267.716†	22101.3	491.72 ug/L	3.859	491.72 ppb	3.859	0.78%
QC value within limits for Cr 267.716 Recovery = 98.34%							
Cu	324.752†	95317.8	489.58 ug/L	5.338	489.58 ppb	5.338	1.09%
QC value within limits for Cu 324.752 Recovery = 97.92%							
Fe	238.204 Radial†	288.0	4724.4 ug/L	266.83	4724.4 ppb	266.83	5.65%
QC value within limits for Fe 238.204 Radial Recovery = 94.49%							
K	766.490 Radial†	18109.2	4536.4 ug/L	232.06	4536.4 ppb	232.06	5.12%
QC value within limits for K 766.490 Radial Recovery = 90.73%							
Mg	279.077 IEC†	91.0	4802.7 ug/L	293.72	4802.7 ppb	293.72	6.12%
QC value within limits for Mg 279.077 IEC Recovery = 96.05%							
Mn	257.610†	259380.7	505.16 ug/L	1.005	505.16 ppb	1.005	0.20%
QC value within limits for Mn 257.610 Recovery = 101.03%							
Mo	202.031†	3473.0	486.86 ug/L	10.313	486.86 ppb	10.313	2.12%
QC value within limits for Mo 202.031 Recovery = 97.37%							
Na	589.592 Radial†	16787.1	9551.8 ug/L	315.76	9551.8 ppb	315.76	3.31%
QC value within limits for Na 589.592 Radial Recovery = 95.52%							
Ni	231.604†	10149.2	491.97 ug/L	4.909	491.97 ppb	4.909	1.00%
QC value within limits for Ni 231.604 Recovery = 98.39%							
P	214.914†	2416.3	2360.2 ug/L	51.59	2360.2 ppb	51.59	2.19%
QC value within limits for P 214.914 Recovery = 94.41%							
Pb	220.353†	2090.4	492.61 ug/L	9.606	492.61 ppb	9.606	1.95%
QC value within limits for Pb 220.353 Recovery = 98.52%							
S	181.975 Axial†	409.4	1005.5 ug/L	27.96	1005.5 ppb	27.96	2.78%
QC value within limits for S 181.975 Axial Recovery = 100.55%							
Sb	206.836†	803.1	506.96 ug/L	12.462	506.96 ppb	12.462	2.46%
QC value within limits for Sb 206.836 Recovery = 101.39%							
Se	196.026†	437.9	521.86 ug/L	6.707	521.86 ppb	6.707	1.29%
QC value within limits for Se 196.026 Recovery = 104.37%							
Si	251.611†	44842.0	2503.3 ug/L	23.76	2503.3 ppb	23.76	0.95%
QC value within limits for Si 251.611 Recovery = 100.13%							
Sn	189.927†	1421.3	490.45 ug/L	10.672	490.45 ppb	10.672	2.18%
QC value within limits for Sn 189.927 Recovery = 98.09%							
Sr	421.552†	37721.5	480.16 ug/L	19.232	480.16 ppb	19.232	4.01%
QC value within limits for Sr 421.552 Recovery = 96.03%							
Ti	334.940†	182703.5	485.96 ug/L	3.941	485.96 ppb	3.941	0.81%
QC value within limits for Ti 334.940 Recovery = 97.19%							
Tl	190.801†	858.9	495.06 ug/L	9.758	495.06 ppb	9.758	1.97%
QC value within limits for Tl 190.801 Recovery = 99.01%							
U	409.014†	9538.0	521.47 ug/L	2.758	521.47 ppb	2.758	0.53%
QC value within limits for U 409.014 Recovery = 104.29%							
V	292.402†	37227.1	499.28 ug/L	3.952	499.28 ppb	3.952	0.79%
QC value within limits for V 292.402 Recovery = 99.86%							
Zn	213.857†	28096.7	493.63 ug/L	5.052	493.63 ppb	5.052	1.02%
QC value within limits for Zn 213.857 Recovery = 98.73%							
SiO2†		45848.5	5467.4 ug/L	105.75	5467.4 ppb	105.75	1.93%
QC value within limits for SiO2 Recovery = 102.24%							

QC Failed. Continue with analysis.

Sequence No.: 44

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/29/2010 22:50:42

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4111.2	4111.2	131 %		22:52:34
1	Y RADIAL	4448.0	4448.0	129.6 %		22:52:34
1	Al 396.153Radial†	-111.7	2.3	2.9844 ug/L	2.9844 ppb	22:52:34
1	Ca 317.933Radial†	10.6	-10.0	-23.607 ug/L	-23.607 ppb	22:52:54
1	Fe 238.204 Radial†	8.8	0.3	4.9026 ug/L	4.9026 ppb	22:52:54
1	K 766.490 Radial†	2839.9	-652.8	-163.74 ug/L	-163.74 ppb	22:52:34
1	Mg 279.077 IEC†	0.0	-1.4	-76.116 ug/L	-76.116 ppb	22:52:54
1	Na 589.592 Radial†	-725.8	52.5	29.860 ug/L	29.860 ppb	22:52:34
1	Sr 421.552†	18.0	-18.5	-0.2356 ug/L	-0.2356 ppb	22:52:34
1	Sc 361.383	676386.6	676386.6	136.46 %		22:53:51
1	Y 371.029	529833.6	529833.6	128.01 %		22:53:51
1	Ag 328.068†	125.7	-28.3	-0.2543 ug/L	-0.2543 ppb	22:53:51
1	As 188.979†	-22.1	6.4	4.9940 ug/L	4.9940 ppb	22:54:11
1	B 249.677†	-469.3	64.1	2.4726 ug/L	2.4726 ppb	22:54:11
1	Ba 233.527†	-6.8	2.7	0.0500 ug/L	0.0500 ppb	22:54:11
1	Be 313.107†	-4412.2	657.4	0.4079 ug/L	0.4079 ppb	22:53:51
1	Cd 226.502†	-208.2	50.2	1.1371 ug/L	1.1371 ppb	22:54:11
1	Co 228.616†	-59.8	14.0	0.5138 ug/L	0.5138 ppb	22:54:11
1	Cr 267.716†	81.7	-16.4	-0.3766 ug/L	-0.3766 ppb	22:54:11
1	Cu 324.752†	5293.1	-1344.5	-6.9334 ug/L	-6.9334 ppb	22:53:51
1	Mn 257.610†	480.8	-69.7	-0.1321 ug/L	-0.1321 ppb	22:54:11
1	Mo 202.031†	21.0	9.8	1.3752 ug/L	1.3752 ppb	22:54:11
1	Ni 231.604†	83.8	-15.5	-0.7508 ug/L	-0.7508 ppb	22:54:11
1	P 214.914†	226.2	-48.6	-48.000 ug/L	-48.000 ppb	22:54:11
1	Pb 220.353†	-61.6	16.9	3.9860 ug/L	3.9860 ppb	22:54:11
1	S 181.975 Axial†	32.7	-11.4	-27.925 ug/L	-27.925 ppb	22:54:11
1	Sb 206.836†	38.8	-10.1	-6.1129 ug/L	-6.1129 ppb	22:54:11
1	Se 196.026†	-22.5	9.0	10.405 ug/L	10.405 ppb	22:54:11
1	Si 251.611†	550.3	-186.2	-10.439 ug/L	-10.439 ppb	22:54:11
1	Sn 189.927†	11.8	-2.0	-0.6828 ug/L	-0.6828 ppb	22:54:11
1	Ti 334.940†	-1368.5	430.0	1.1257 ug/L	1.1257 ppb	22:53:51
1	Tl 190.801†	-23.7	9.7	5.5539 ug/L	5.5539 ppb	22:54:11
1	U 409.014†	-2508.7	901.5	49.440 ug/L	49.440 ppb	22:53:51
1	V 292.402†	-1673.3	360.3	4.8787 ug/L	4.8787 ppb	22:53:51
1	Zn 213.857†	618.0	-199.3	-3.5194 ug/L	-3.5194 ppb	22:54:11
1	SiO2†	577.1	-167.1	-20.013 ug/L	-20.013 ppb	22:55:07
2	Sc Radial	3837.1	3837.1	122 %		22:52:59
2	Y RADIAL	4155.7	4155.7	121.1 %		22:52:59
2	Al 396.153Radial†	-100.4	5.5	7.1501 ug/L	7.1501 ppb	22:52:59
2	Ca 317.933Radial†	14.4	-6.3	-14.962 ug/L	-14.962 ppb	22:53:19
2	Fe 238.204 Radial†	7.1	-0.6	-9.7120 ug/L	-9.7120 ppb	22:53:19
2	K 766.490 Radial†	3031.3	-340.9	-85.498 ug/L	-85.498 ppb	22:52:59
2	Mg 279.077 IEC†	1.3	-0.4	-21.760 ug/L	-21.760 ppb	22:53:19
2	Na 589.592 Radial†	-723.6	14.6	8.3315 ug/L	8.3315 ppb	22:52:59
2	Sr 421.552†	51.6	10.1	0.1282 ug/L	0.1282 ppb	22:52:59
2	Sc 361.383	656276.5	656276.5	132.41 %		22:54:16
2	Y 371.029	514937.1	514937.1	124.41 %		22:54:16
2	Ag 328.068†	219.4	45.3	0.3477 ug/L	0.3477 ppb	22:54:16
2	As 188.979†	-29.4	0.4	0.3151 ug/L	0.3151 ppb	22:54:36
2	B 249.677†	-446.0	71.1	2.7461 ug/L	2.7461 ppb	22:54:36
2	Ba 233.527†	0.6	8.2	0.1281 ug/L	0.1281 ppb	22:54:36
2	Be 313.107†	-4336.8	615.3	0.3820 ug/L	0.3820 ppb	22:54:16
2	Cd 226.502†	-219.8	36.8	0.8374 ug/L	0.8374 ppb	22:54:36
2	Co 228.616†	-63.4	9.9	0.3616 ug/L	0.3616 ppb	22:54:36
2	Cr 267.716†	100.2	-0.6	-0.0293 ug/L	-0.0293 ppb	22:54:36
2	Cu 324.752†	5325.0	-1201.6	-6.2027 ug/L	-6.2027 ppb	22:54:16
2	Mn 257.610†	483.9	-56.6	-0.1103 ug/L	-0.1103 ppb	22:54:36
2	Mo 202.031†	12.7	4.0	0.5557 ug/L	0.5557 ppb	22:54:36
2	Ni 231.604†	66.9	-26.3	-1.2756 ug/L	-1.2756 ppb	22:54:36

2	P 214.914†	218.2	-49.5	-49.089 ug/L	-49.089 ppb	22:54:36
2	Pb 220.353†	-78.3	2.9	0.6949 ug/L	0.6949 ppb	22:54:36
2	S 181.975 Axial†	36.7	-7.6	-18.753 ug/L	-18.753 ppb	22:54:36
2	Sb 206.836†	38.1	-9.7	-5.8989 ug/L	-5.8989 ppb	22:54:36
2	Se 196.026†	-18.7	11.4	13.171 ug/L	13.171 ppb	22:54:36
2	Si 251.611†	550.1	-174.1	-9.7491 ug/L	-9.7491 ppb	22:54:36
2	Sn 189.927†	10.5	-2.7	-0.9338 ug/L	-0.9338 ppb	22:54:36
2	Ti 334.940†	-1311.9	442.1	1.1522 ug/L	1.1522 ppb	22:54:16
2	Tl 190.801†	-34.0	1.4	0.7827 ug/L	0.7827 ppb	22:54:36
2	U 409.014†	-2315.6	991.0	54.350 ug/L	54.350 ppb	22:54:16
2	V 292.402†	-1627.3	357.4	4.8418 ug/L	4.8418 ppb	22:54:16
2	Zn 213.857†	613.7	-188.6	-3.3260 ug/L	-3.3260 ppb	22:54:36
2	SiO2†	581.2	-151.1	-18.075 ug/L	-18.075 ppb	22:55:12
3	Sc Radial	4116.9	4116.9	131 %		22:53:24
3	Y RADIAL	4432.6	4432.6	129.1 %		22:53:24
3	Al 396.153Radial†	-89.0	19.8	25.945 ug/L	25.945 ppb	22:53:24
3	Ca 317.933Radial†	15.4	-6.4	-15.089 ug/L	-15.089 ppb	22:53:44
3	Fe 238.204 Radial†	8.0	-0.3	-4.7858 ug/L	-4.7858 ppb	22:53:44
3	K 766.490 Radial†	2866.3	-635.6	-159.45 ug/L	-159.45 ppb	22:53:24
3	Mg 279.077 IEC†	1.9	-0.0	-2.4426 ug/L	-2.4426 ppb	22:53:44
3	Na 589.592 Radial†	-711.7	64.0	36.430 ug/L	36.430 ppb	22:53:24
3	Sr 421.552†	44.8	2.0	0.0252 ug/L	0.0252 ppb	22:53:24
3	Sc 361.383	650749.9	650749.9	131.29 %		22:54:41
3	Y 371.029	510015.5	510015.5	123.22 %		22:54:41
3	Ag 328.068†	265.1	81.5	0.6501 ug/L	0.6501 ppb	22:54:41
3	As 188.979†	-24.7	3.8	2.9799 ug/L	2.9799 ppb	22:55:01
3	B 249.677†	-460.3	57.4	2.2144 ug/L	2.2144 ppb	22:55:01
3	Ba 233.527†	-9.2	0.7	0.0198 ug/L	0.0198 ppb	22:55:01
3	Be 313.107†	-4178.0	708.5	0.4388 ug/L	0.4388 ppb	22:54:41
3	Cd 226.502†	-205.7	46.1	1.0465 ug/L	1.0465 ppb	22:55:01
3	Co 228.616†	-51.2	18.8	0.6904 ug/L	0.6904 ppb	22:55:01
3	Cr 267.716†	78.4	-16.6	-0.3832 ug/L	-0.3832 ppb	22:55:01
3	Cu 324.752†	5337.4	-1158.0	-5.9781 ug/L	-5.9781 ppb	22:54:41
3	Mn 257.610†	488.3	-50.1	-0.0979 ug/L	-0.0979 ppb	22:55:01
3	Mo 202.031†	15.8	6.4	0.8979 ug/L	0.8979 ppb	22:55:01
3	Ni 231.604†	70.7	-23.0	-1.1175 ug/L	-1.1175 ppb	22:55:01
3	P 214.914†	226.3	-41.9	-41.429 ug/L	-41.429 ppb	22:55:01
3	Pb 220.353†	-59.2	16.9	3.9898 ug/L	3.9898 ppb	22:55:01
3	S 181.975 Axial†	35.8	-8.0	-19.776 ug/L	-19.776 ppb	22:55:01
3	Sb 206.836†	33.6	-12.9	-7.8462 ug/L	-7.8462 ppb	22:55:01
3	Se 196.026†	-27.5	4.5	5.2290 ug/L	5.2290 ppb	22:55:01
3	Si 251.611†	542.7	-176.2	-9.8712 ug/L	-9.8712 ppb	22:55:01
3	Sn 189.927†	13.7	-0.2	-0.0870 ug/L	-0.0870 ppb	22:55:01
3	Ti 334.940†	-1443.3	333.6	0.8624 ug/L	0.8624 ppb	22:54:41
3	Tl 190.801†	-36.5	-0.7	-0.4280 ug/L	-0.4280 ppb	22:55:01
3	U 409.014†	-2312.1	978.8	53.683 ug/L	53.683 ppb	22:54:41
3	V 292.402†	-1621.9	351.1	4.7620 ug/L	4.7620 ppb	22:54:41
3	Zn 213.857†	615.6	-183.2	-3.2326 ug/L	-3.2326 ppb	22:55:01
3	SiO2†	568.7	-156.8	-18.772 ug/L	-18.772 ppb	22:55:17

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	661137.7	133.39 %		2.722			2.04%
Sc Radial	4021.7	128 %		5.1			3.98%
Y 371.029	518262.1	125.21 %		2.493			1.99%
Y RADIAL	4345.4	126.6 %		4.79			3.79%
Ag 328.068†	32.8	0.2478 ug/L		0.46041	0.2478 ppb	0.46041	185.78%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	9.2	12.026 ug/L		12.2322	12.026 ppb	12.2322	101.71%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	3.5	2.7630 ug/L		2.34698	2.7630 ppb	2.34698	84.94%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	64.2	2.4777 ug/L		0.26588	2.4777 ppb	0.26588	10.73%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	3.9	0.0660 ug/L		0.05590	0.0660 ppb	0.05590	84.72%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	660.4	0.4096 ug/L		0.02844	0.4096 ppb	0.02844	6.94%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-7.6	-17.886 ug/L		4.9552	-17.886 ppb	4.9552	27.70%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	44.4	1.0070 ug/L	0.15371	1.0070 ppb	0.15371	15.26%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	14.2	0.5220 ug/L	0.16456	0.5220 ppb	0.16456	31.53%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	-11.2	-0.2630 ug/L	0.20247	-0.2630 ppb	0.20247	76.98%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-1234.7	-6.3714 ug/L	0.49949	-6.3714 ppb	0.49949	7.84%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-0.2	-3.1984 ug/L	7.43547	-3.1984 ppb	7.43547	232.47%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	-543.1	-136.23 ug/L	43.988	-136.23 ppb	43.988	32.29%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-0.6	-33.440 ug/L	38.2002	-33.440 ppb	38.2002	114.24%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-58.8	-0.1134 ug/L	0.01729	-0.1134 ppb	0.01729	15.24%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	6.7	0.9429 ug/L	0.41162	0.9429 ppb	0.41162	43.65%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	43.7	24.874 ug/L	14.6979	24.874 ppb	14.6979	59.09%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-21.6	-1.0479 ug/L	0.26923	-1.0479 ppb	0.26923	25.69%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	-46.7	-46.173 ug/L	4.1439	-46.173 ppb	4.1439	8.97%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	12.3	2.8902 ug/L	1.90126	2.8902 ppb	1.90126	65.78%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	-9.0	-22.151 ug/L	5.0259	-22.151 ppb	5.0259	22.69%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	-10.9	-6.6193 ug/L	1.06788	-6.6193 ppb	1.06788	16.13%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	8.3	9.6017 ug/L	4.03163	9.6017 ppb	4.03163	41.99%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	-178.8	-10.020 ug/L	0.3679	-10.020 ppb	0.3679	3.67%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	-1.6	-0.5679 ug/L	0.43493	-0.5679 ppb	0.43493	76.59%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-2.2	-0.0274 ug/L	0.18750	-0.0274 ppb	0.18750	684.83%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	401.9	1.0468 ug/L	0.16023	1.0468 ppb	0.16023	15.31%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	3.4	1.9696 ug/L	3.16264	1.9696 ppb	3.16264	160.58%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	957.1	52.491 ug/L	2.6631	52.491 ppb	2.6631	5.07%		
QC value greater than the upper limit for U 409.014 Recovery = Not calculated									
V	292.402†	356.3	4.8275 ug/L	0.05964	4.8275 ppb	0.05964	1.24%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	-190.4	-3.3593 ug/L	0.14623	-3.3593 ppb	0.14623	4.35%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		-158.3	-18.953 ug/L	0.9812	-18.953 ppb	0.9812	5.18%		
QC value within limits for SiO2 Recovery = Not calculated									
QC Failed. Continue with analysis.									

Sequence No.: 54

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/30/2010 00:00:48

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3944.8	3944.8	125 %		00:02:40
1	Y RADIAL	4226.0	4226.0	123.1 %		00:02:40
1	Al 396.153Radial†	4238.7	3465.9	4533.9 ug/L	4533.9 ppb	00:02:40
1	Ca 317.933Radial†	2545.7	2010.7	4745.9 ug/L	4745.9 ppb	00:03:00
1	Fe 238.204 Radial†	392.4	306.4	5024.7 ug/L	5024.7 ppb	00:03:00
1	K 766.490 Radial†	27046.0	18730.5	4692.1 ug/L	4692.1 ppb	00:02:40
1	Mg 279.077 IEC†	123.5	96.9	5118.4 ug/L	5118.4 ppb	00:03:00
1	Na 589.592 Radial†	20972.9	17322.5	9856.3 ug/L	9856.3 ppb	00:02:40
1	Sr 421.552†	48853.0	38902.5	495.19 ug/L	495.19 ppb	00:02:40
1	Sc 361.383	673575.7	673575.7	135.90 %		00:03:57
1	Y 371.029	438215.4	438215.4	105.87 %		00:04:02
1	Ag 328.068†	82053.5	60258.7	503.24 ug/L	503.24 ppb	00:04:02
1	As 188.979†	854.7	651.5	511.28 ug/L	511.28 ppb	00:04:22
1	B 249.677†	16694.7	12692.8	488.06 ug/L	488.06 ppb	00:04:02
1	Ba 233.527†	47101.2	34667.2	500.78 ug/L	500.78 ppb	00:04:02
1	Be 313.107†	1095881.5	810296.7	500.71 ug/L	500.71 ppb	00:03:57
1	Cd 226.502†	30227.6	22445.8	504.36 ug/L	504.36 ppb	00:04:02
1	Co 228.616†	18481.4	13657.3	502.21 ug/L	502.21 ppb	00:04:02
1	Cr 267.716†	30503.9	22370.1	497.73 ug/L	497.73 ppb	00:04:02
1	Cu 324.752†	138173.7	96452.1	495.42 ug/L	495.42 ppb	00:04:02
1	Mn 257.610†	345605.0	253891.9	494.49 ug/L	494.49 ppb	00:04:02
1	Mo 202.031†	4799.9	3526.4	494.38 ug/L	494.38 ppb	00:04:22
1	Ni 231.604†	14055.7	10266.1	497.64 ug/L	497.64 ppb	00:04:02
1	P 214.914†	3608.6	2441.1	2384.0 ug/L	2384.0 ppb	00:04:22
1	Pb 220.353†	2803.1	2124.7	500.68 ug/L	500.68 ppb	00:04:22
1	S 181.975 Axial†	608.3	412.3	1012.6 ug/L	1012.6 ppb	00:04:22
1	Sb 206.836†	1164.0	818.1	516.32 ug/L	516.32 ppb	00:04:22
1	Se 196.026†	561.0	438.3	523.23 ug/L	523.23 ppb	00:04:22
1	Si 251.611†	62436.8	45354.7	2531.9 ug/L	2531.9 ppb	00:04:02
1	Sn 189.927†	1962.3	1433.3	494.65 ug/L	494.65 ppb	00:04:22
1	Ti 334.940†	249510.0	185035.2	492.17 ug/L	492.17 ppb	00:04:02
1	Tl 190.801†	1126.8	856.2	493.46 ug/L	493.46 ppb	00:04:22
1	U 409.014†	9438.7	9685.3	529.50 ug/L	529.50 ppb	00:04:02
1	V 292.402†	49111.5	37725.2	505.94 ug/L	505.94 ppb	00:04:02
1	Zn 213.857†	39466.9	28389.6	498.74 ug/L	498.74 ppb	00:04:02
1	SiO2†	62437.6	45354.8	5408.2 ug/L	5408.2 ppb	00:05:29
2	Sc Radial	3783.0	3783.0	120 %		00:03:05
2	Y RADIAL	4082.8	4082.8	119.0 %		00:03:05
2	Al 396.153Radial†	4131.5	3521.3	4607.5 ug/L	4607.5 ppb	00:03:05
2	Ca 317.933Radial†	2463.0	2028.8	4788.6 ug/L	4788.6 ppb	00:03:25
2	Fe 238.204 Radial†	374.8	305.1	5004.0 ug/L	5004.0 ppb	00:03:25
2	K 766.490 Radial†	26328.4	19056.0	4773.7 ug/L	4773.7 ppb	00:03:05
2	Mg 279.077 IEC†	117.7	96.3	5085.0 ug/L	5085.0 ppb	00:03:25
2	Na 589.592 Radial†	20192.5	17388.7	9894.0 ug/L	9894.0 ppb	00:03:05
2	Sr 421.552†	47174.4	39172.5	498.63 ug/L	498.63 ppb	00:03:05
2	Sc 361.383	686568.9	686568.9	138.52 %		00:04:28
2	Y 371.029	440224.7	440224.7	106.36 %		00:04:33
2	Ag 328.068†	83184.8	59932.8	500.52 ug/L	500.52 ppb	00:04:33
2	As 188.979†	838.3	627.8	492.81 ug/L	492.81 ppb	00:04:53
2	B 249.677†	17140.6	12782.2	491.52 ug/L	491.52 ppb	00:04:33
2	Ba 233.527†	47854.2	34554.9	499.16 ug/L	499.16 ppb	00:04:33
2	Be 313.107†	1119655.2	812198.4	501.88 ug/L	501.88 ppb	00:04:28
2	Cd 226.502†	30633.0	22317.5	501.48 ug/L	501.48 ppb	00:04:33
2	Co 228.616†	18811.8	13638.4	501.48 ug/L	501.48 ppb	00:04:33
2	Cr 267.716†	31056.2	22344.0	497.14 ug/L	497.14 ppb	00:04:33
2	Cu 324.752†	140748.8	96386.9	495.08 ug/L	495.08 ppb	00:04:33
2	Mn 257.610†	351336.4	253216.7	493.18 ug/L	493.18 ppb	00:04:33
2	Mo 202.031†	4729.3	3408.6	477.87 ug/L	477.87 ppb	00:04:53
2	Ni 231.604†	14283.2	10234.6	496.11 ug/L	496.11 ppb	00:04:33

2	P 214.914†	3544.7	2344.7	2286.0 ug/L	2286.0 ppb	00:04:53
2	Pb 220.353†	2753.5	2049.9	483.09 ug/L	483.09 ppb	00:04:53
2	S 181.975 Axial†	598.4	396.6	974.10 ug/L	974.10 ppb	00:04:53
2	Sb 206.836†	1135.9	781.6	493.47 ug/L	493.47 ppb	00:04:53
2	Se 196.026†	556.5	427.2	510.32 ug/L	510.32 ppb	00:04:53
2	Si 251.611†	63625.1	45343.0	2531.5 ug/L	2531.5 ppb	00:04:33
2	Sn 189.927†	1931.0	1383.4	477.49 ug/L	477.49 ppb	00:04:53
2	Ti 334.940†	253478.3	184425.3	490.56 ug/L	490.56 ppb	00:04:33
2	Tl 190.801†	1128.6	841.8	485.23 ug/L	485.23 ppb	00:04:53
2	U 409.014†	9676.8	9725.8	531.72 ug/L	531.72 ppb	00:04:33
2	V 292.402†	49911.1	37618.5	504.31 ug/L	504.31 ppb	00:04:33
2	Zn 213.857†	40143.1	28328.2	497.66 ug/L	497.66 ppb	00:04:33
2	SiO2†	62133.5	44265.8	5278.5 ug/L	5278.5 ppb	00:05:34
3	Sc Radial	3908.3	3908.3	124 %		00:03:30
3	Y RADIAL	4206.4	4206.4	122.6 %		00:03:30
3	Al 396.153Radial†	4220.3	3482.6	4555.8 ug/L	4555.8 ppb	00:03:30
3	Ca 317.933Radial†	2463.8	1963.7	4635.0 ug/L	4635.0 ppb	00:03:50
3	Fe 238.204 Radial†	373.8	294.3	4827.4 ug/L	4827.4 ppb	00:03:50
3	K 766.490 Radial†	26891.8	18807.4	4711.4 ug/L	4711.4 ppb	00:03:30
3	Mg 279.077 IEC†	117.1	92.8	4897.8 ug/L	4897.8 ppb	00:03:50
3	Na 589.592 Radial†	20890.8	17412.2	9907.4 ug/L	9907.4 ppb	00:03:30
3	Sr 421.552†	48506.8	38986.9	496.27 ug/L	496.27 ppb	00:03:30
3	Sc 361.383	665947.2	665947.2	134.36 %		00:04:58
3	Y 371.029	436069.1	436069.1	105.36 %		00:05:04
3	Ag 328.068†	82022.5	60927.3	508.75 ug/L	508.75 ppb	00:05:04
3	As 188.979†	838.4	646.6	507.48 ug/L	507.48 ppb	00:05:24
3	B 249.677†	16834.7	12937.7	497.53 ug/L	497.53 ppb	00:05:04
3	Ba 233.527†	47225.9	35157.1	507.84 ug/L	507.84 ppb	00:05:04
3	Be 313.107†	1084586.9	811127.9	501.24 ug/L	501.24 ppb	00:04:58
3	Cd 226.502†	30287.4	22745.2	511.12 ug/L	511.12 ppb	00:05:04
3	Co 228.616†	18534.9	13852.9	509.40 ug/L	509.40 ppb	00:05:04
3	Cr 267.716†	30604.0	22701.7	505.07 ug/L	505.07 ppb	00:05:04
3	Cu 324.752†	138081.9	97548.5	501.04 ug/L	501.04 ppb	00:05:04
3	Mn 257.610†	346935.6	257795.5	502.08 ug/L	502.08 ppb	00:05:04
3	Mo 202.031†	4758.5	3536.1	495.71 ug/L	495.71 ppb	00:05:24
3	Ni 231.604†	14162.0	10463.7	507.22 ug/L	507.22 ppb	00:05:04
3	P 214.914†	3563.3	2437.8	2379.8 ug/L	2379.8 ppb	00:05:24
3	Pb 220.353†	2754.4	2112.1	497.74 ug/L	497.74 ppb	00:05:24
3	S 181.975 Axial†	598.0	409.7	1006.3 ug/L	1006.3 ppb	00:05:24
3	Sb 206.836†	1149.8	817.3	515.93 ug/L	515.93 ppb	00:05:24
3	Se 196.026†	551.8	436.2	520.22 ug/L	520.22 ppb	00:05:24
3	Si 251.611†	62644.1	46035.3	2570.0 ug/L	2570.0 ppb	00:05:04
3	Sn 189.927†	1958.8	1447.3	499.41 ug/L	499.41 ppb	00:05:24
3	Ti 334.940†	249911.5	187437.2	498.56 ug/L	498.56 ppb	00:05:04
3	Tl 190.801†	1125.0	864.3	498.17 ug/L	498.17 ppb	00:05:24
3	U 409.014†	9471.4	9789.2	535.20 ug/L	535.20 ppb	00:05:04
3	V 292.402†	49123.1	38147.8	511.58 ug/L	511.58 ppb	00:05:04
3	Zn 213.857†	39622.1	28837.8	506.64 ug/L	506.64 ppb	00:05:04
3	SiO2†	60903.4	44739.2	5334.6 ug/L	5334.6 ppb	00:05:39

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	675363.9	136.26 %		2.104			1.54%
Sc Radial	3878.7	123 %		2.7			2.19%
Y 371.029	438169.7	105.86 %		0.502			0.47%
Y RADIAL	4171.8	121.5 %		2.26			1.86%
Ag 328.068†	60373.0	504.17 ug/L		4.192	504.17 ppb	4.192	0.83%
QC value within limits for Ag 328.068 Recovery = 100.83%							
Al 396.153Radial†	3489.9	4565.8 ug/L		37.80	4565.8 ppb	37.80	0.83%
QC value within limits for Al 396.153Radial Recovery = 91.32%							
As 188.979†	642.0	503.86 ug/L		9.749	503.86 ppb	9.749	1.93%
QC value within limits for As 188.979 Recovery = 100.77%							
B 249.677†	12804.2	492.37 ug/L		4.793	492.37 ppb	4.793	0.97%
QC value within limits for B 249.677 Recovery = 98.47%							
Ba 233.527†	34793.1	502.59 ug/L		4.619	502.59 ppb	4.619	0.92%
QC value within limits for Ba 233.527 Recovery = 100.52%							
Be 313.107†	811207.7	501.27 ug/L		0.585	501.27 ppb	0.585	0.12%
QC value within limits for Be 313.107 Recovery = 100.25%							
Ca 317.933Radial†	2001.1	4723.2 ug/L		79.27	4723.2 ppb	79.27	1.68%

QC value within limits for Ca 317.933 Radial Recovery = 94.46%

Cd 226.502†	22502.8	505.65 ug/L	4.946	505.65 ppb	4.946	0.98%
QC value within limits for Cd 226.502 Recovery = 101.13%						
Co 228.616†	13716.2	504.36 ug/L	4.373	504.36 ppb	4.373	0.87%
QC value within limits for Co 228.616 Recovery = 100.87%						
Cr 267.716†	22471.9	499.98 ug/L	4.421	499.98 ppb	4.421	0.88%
QC value within limits for Cr 267.716 Recovery = 100.00%						
Cu 324.752†	96795.8	497.18 ug/L	3.345	497.18 ppb	3.345	0.67%
QC value within limits for Cu 324.752 Recovery = 99.44%						
Fe 238.204 Radial†	301.9	4952.0 ug/L	108.41	4952.0 ppb	108.41	2.19%
QC value within limits for Fe 238.204 Radial Recovery = 99.04%						
K 766.490 Radial†	18864.7	4725.7 ug/L	42.66	4725.7 ppb	42.66	0.90%
QC value within limits for K 766.490 Radial Recovery = 94.51%						
Mg 279.077 IEC†	95.3	5033.7 ug/L	118.92	5033.7 ppb	118.92	2.36%
QC value within limits for Mg 279.077 IEC Recovery = 100.67%						
Mn 257.610†	254968.0	496.58 ug/L	4.806	496.58 ppb	4.806	0.97%
QC value within limits for Mn 257.610 Recovery = 99.32%						
Mo 202.031†	3490.4	489.32 ug/L	9.937	489.32 ppb	9.937	2.03%
QC value within limits for Mo 202.031 Recovery = 97.86%						
Na 589.592 Radial†	17374.4	9885.9 ug/L	26.47	9885.9 ppb	26.47	0.27%
QC value within limits for Na 589.592 Radial Recovery = 98.86%						
Ni 231.604†	10321.4	500.32 ug/L	6.020	500.32 ppb	6.020	1.20%
QC value within limits for Ni 231.604 Recovery = 100.06%						
P 214.914†	2407.9	2349.9 ug/L	55.39	2349.9 ppb	55.39	2.36%
QC value within limits for P 214.914 Recovery = 94.00%						
Pb 220.353†	2095.6	493.84 ug/L	9.424	493.84 ppb	9.424	1.91%
QC value within limits for Pb 220.353 Recovery = 98.77%						
S 181.975 Axial†	406.2	997.66 ug/L	20.647	997.66 ppb	20.647	2.07%
QC value within limits for S 181.975 Axial Recovery = 99.77%						
Sb 206.836†	805.6	508.57 ug/L	13.079	508.57 ppb	13.079	2.57%
QC value within limits for Sb 206.836 Recovery = 101.71%						
Se 196.026†	433.9	517.92 ug/L	6.753	517.92 ppb	6.753	1.30%
QC value within limits for Se 196.026 Recovery = 103.58%						
Si 251.611†	45577.7	2544.5 ug/L	22.11	2544.5 ppb	22.11	0.87%
QC value within limits for Si 251.611 Recovery = 101.78%						
Sn 189.927†	1421.3	490.52 ug/L	11.526	490.52 ppb	11.526	2.35%
QC value within limits for Sn 189.927 Recovery = 98.10%						
Sr 421.552†	39020.6	496.70 ug/L	1.758	496.70 ppb	1.758	0.35%
QC value within limits for Sr 421.552 Recovery = 99.34%						
Ti 334.940†	185632.5	493.76 ug/L	4.233	493.76 ppb	4.233	0.86%
QC value within limits for Ti 334.940 Recovery = 98.75%						
Tl 190.801†	854.1	492.28 ug/L	6.551	492.28 ppb	6.551	1.33%
QC value within limits for Tl 190.801 Recovery = 98.46%						
U 409.014†	9733.4	532.14 ug/L	2.874	532.14 ppb	2.874	0.54%
QC value within limits for U 409.014 Recovery = 106.43%						
V 292.402†	37830.5	507.28 ug/L	3.816	507.28 ppb	3.816	0.75%
QC value within limits for V 292.402 Recovery = 101.46%						
Zn 213.857†	28518.5	501.01 ug/L	4.905	501.01 ppb	4.905	0.98%
QC value within limits for Zn 213.857 Recovery = 100.20%						
SiO2†	44786.6	5340.4 ug/L	65.06	5340.4 ppb	65.06	1.22%
QC value within limits for SiO2 Recovery = 99.87%						

All analyte(s) passed QC.

Sequence No.: 55

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/30/2010 00:07:49

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	3740.3	3740.3	119 %		00:10:01
1	Y RADIAL	4234.0	4234.0	123.4 %		00:09:41
1	Al 396.153Radial†	-99.8	3.9	5.0754 ug/L	5.0754 ppb	00:10:01
1	Ca 317.933Radial†	15.9	-4.8	-11.218 ug/L	-11.218 ppb	00:10:01
1	Fe 238.204 Radial†	9.1	1.2	20.164 ug/L	20.164 ppb	00:10:01
1	K 766.490 Radial†	2854.4	-425.2	-106.66 ug/L	-106.66 ppb	00:09:41
1	Mg 279.077 IEC†	1.6	-0.1	-6.7834 ug/L	-6.7834 ppb	00:10:01
1	Na 589.592 Radial†	-720.7	1.7	0.9719 ug/L	0.9719 ppb	00:09:41
1	Sr 421.552†	38.3	-0.1	-0.0010 ug/L	-0.0010 ppb	00:09:41
1	Sc 361.383	522810.7	522810.7	105.48 %		00:10:58
1	Y 371.029	439236.9	439236.9	106.12 %		00:10:58
1	Ag 328.068†	191.4	61.0	0.5058 ug/L	0.5058 ppb	00:10:58
1	As 188.979†	-23.2	0.6	0.4955 ug/L	0.4955 ppb	00:11:18
1	B 249.677†	-479.0	-46.1	-1.7862 ug/L	-1.7862 ppb	00:11:18
1	Ba 233.527†	-3.5	4.3	0.0649 ug/L	0.0649 ppb	00:11:18
1	Be 313.107†	-4146.3	-40.3	-0.0237 ug/L	-0.0237 ppb	00:10:58
1	Cd 226.502†	-204.1	9.3	0.2083 ug/L	0.2083 ppb	00:11:18
1	Co 228.616†	-50.0	10.4	0.3796 ug/L	0.3796 ppb	00:11:18
1	Cr 267.716†	64.4	-15.2	-0.3390 ug/L	-0.3390 ppb	00:11:18
1	Cu 324.752†	5271.3	-225.8	-1.1656 ug/L	-1.1656 ppb	00:10:58
1	Mn 257.610†	462.8	16.7	0.0347 ug/L	0.0347 ppb	00:11:18
1	Mo 202.031†	4.8	-1.0	-0.1430 ug/L	-0.1430 ppb	00:11:18
1	Ni 231.604†	61.5	-18.6	-0.9004 ug/L	-0.9004 ppb	00:11:18
1	P 214.914†	210.5	-14.7	-14.791 ug/L	-14.791 ppb	00:11:18
1	Pb 220.353†	-61.9	3.4	0.7958 ug/L	0.7958 ppb	00:11:18
1	S 181.975 Axial†	36.3	-0.9	-2.1939 ug/L	-2.1939 ppb	00:11:18
1	Sb 206.836†	33.7	-6.6	-4.0531 ug/L	-4.0531 ppb	00:11:18
1	Se 196.026†	-29.9	-2.9	-3.2475 ug/L	-3.2475 ppb	00:11:18
1	Si 251.611†	541.3	-76.4	-4.2718 ug/L	-4.2718 ppb	00:11:18
1	Sn 189.927†	2.2	-8.6	-2.9445 ug/L	-2.9445 ppb	00:11:18
1	Ti 334.940†	-1320.3	181.2	0.4760 ug/L	0.4760 ppb	00:10:58
1	Tl 190.801†	-32.7	-3.9	-2.2478 ug/L	-2.2478 ppb	00:11:18
1	U 409.014†	-2660.6	217.5	11.925 ug/L	11.925 ppb	00:10:58
1	V 292.402†	-1615.6	54.7	0.7417 ug/L	0.7417 ppb	00:10:58
1	Zn 213.857†	619.1	-65.2	-1.1518 ug/L	-1.1518 ppb	00:11:18
1	SiO2†	568.9	-50.6	-6.0496 ug/L	-6.0496 ppb	00:12:14
2	Sc Radial	3862.3	3862.3	123 %		00:10:26
2	Y RADIAL	4271.0	4271.0	124.4 %		00:10:06
2	Al 396.153Radial†	-89.1	15.3	20.012 ug/L	20.012 ppb	00:10:26
2	Ca 317.933Radial†	15.7	-5.3	-12.551 ug/L	-12.551 ppb	00:10:26
2	Fe 238.204 Radial†	8.0	0.1	2.4156 ug/L	2.4156 ppb	00:10:26
2	K 766.490 Radial†	2737.3	-596.4	-149.59 ug/L	-149.59 ppb	00:10:06
2	Mg 279.077 IEC†	2.9	0.9	48.147 ug/L	48.147 ppb	00:10:26
2	Na 589.592 Radial†	-743.1	2.6	1.4863 ug/L	1.4863 ppb	00:10:06
2	Sr 421.552†	18.1	-17.5	-0.2231 ug/L	-0.2231 ppb	00:10:06
2	Sc 361.383	526509.3	526509.3	106.23 %		00:11:23
2	Y 371.029	441646.5	441646.5	106.70 %		00:11:23
2	Ag 328.068†	159.2	29.4	0.2413 ug/L	0.2413 ppb	00:11:23
2	As 188.979†	-24.9	-0.8	-0.6348 ug/L	-0.6348 ppb	00:11:43
2	B 249.677†	-467.5	-32.1	-1.2425 ug/L	-1.2425 ppb	00:11:43
2	Ba 233.527†	-0.8	7.0	0.1039 ug/L	0.1039 ppb	00:11:43
2	Be 313.107†	-4129.3	3.3	0.0027 ug/L	0.0027 ppb	00:11:23
2	Cd 226.502†	-213.7	1.6	0.0391 ug/L	0.0391 ppb	00:11:43
2	Co 228.616†	-58.4	2.8	0.1040 ug/L	0.1040 ppb	00:11:43
2	Cr 267.716†	66.8	-13.4	-0.2997 ug/L	-0.2997 ppb	00:11:43
2	Cu 324.752†	5203.3	-325.0	-1.6756 ug/L	-1.6756 ppb	00:11:23
2	Mn 257.610†	487.5	36.8	0.0700 ug/L	0.0700 ppb	00:11:43
2	Mo 202.031†	14.0	7.6	1.0626 ug/L	1.0626 ppb	00:11:43
2	Ni 231.604†	92.7	10.4	0.5057 ug/L	0.5057 ppb	00:11:43

2	P 214.914†	230.5	2.7	3.1217 ug/L	3.1217 ppb	00:11:43
2	Pb 220.353†	-56.3	9.1	2.1338 ug/L	2.1338 ppb	00:11:43
2	S 181.975 Axial†	39.7	2.1	5.0778 ug/L	5.0778 ppb	00:11:43
2	Sb 206.836†	47.2	6.0	3.7015 ug/L	3.7015 ppb	00:11:43
2	Se 196.026†	-20.1	6.6	7.6709 ug/L	7.6709 ppb	00:11:43
2	Si 251.611†	544.8	-76.7	-4.3043 ug/L	-4.3043 ppb	00:11:43
2	Sn 189.927†	18.7	6.9	2.3855 ug/L	2.3855 ppb	00:11:43
2	Ti 334.940†	-1404.1	111.0	0.2847 ug/L	0.2847 ppb	00:11:23
2	Tl 190.801†	-35.9	-6.8	-3.8840 ug/L	-3.8840 ppb	00:11:43
2	U 409.014†	-2682.9	214.1	11.745 ug/L	11.745 ppb	00:11:23
2	V 292.402†	-1571.1	107.4	1.4592 ug/L	1.4592 ppb	00:11:23
2	Zn 213.857†	617.6	-70.7	-1.2556 ug/L	-1.2556 ppb	00:11:43
2	SiO2†	521.7	-98.9	-11.846 ug/L	-11.846 ppb	00:12:19
3	Sc Radial	3798.3	3798.3	121 %		00:10:51
3	Y RADIAL	4277.0	4277.0	124.6 %		00:10:31
3	Al 396.153Radial†	-91.1	12.3	16.142 ug/L	16.142 ppb	00:10:51
3	Ca 317.933Radial†	12.1	-8.1	-19.096 ug/L	-19.096 ppb	00:10:51
3	Fe 238.204 Radial†	8.3	0.5	7.9077 ug/L	7.9077 ppb	00:10:51
3	K 766.490 Radial†	2741.8	-555.1	-139.23 ug/L	-139.23 ppb	00:10:31
3	Mg 279.077 IEC†	1.2	-0.4	-23.543 ug/L	-23.543 ppb	00:10:51
3	Na 589.592 Radial†	-702.9	25.7	14.617 ug/L	14.617 ppb	00:10:31
3	Sr 421.552†	33.9	-4.2	-0.0536 ug/L	-0.0536 ppb	00:10:31
3	Sc 361.383	530485.9	530485.9	107.03 %		00:11:48
3	Y 371.029	444365.0	444365.0	107.36 %		00:11:48
3	Ag 328.068†	67.2	-57.7	-0.4914 ug/L	-0.4914 ppb	00:11:48
3	As 188.979†	-22.4	1.7	1.2890 ug/L	1.2890 ppb	00:12:08
3	B 249.677†	-466.7	-28.1	-1.0877 ug/L	-1.0877 ppb	00:12:08
3	Ba 233.527†	-8.4	-0.2	-0.0017 ug/L	-0.0017 ppb	00:12:08
3	Be 313.107†	-4344.6	-168.7	-0.1031 ug/L	-0.1031 ppb	00:11:48
3	Cd 226.502†	-191.0	24.3	0.5498 ug/L	0.5498 ppb	00:12:08
3	Co 228.616†	-58.0	3.6	0.1322 ug/L	0.1322 ppb	00:12:08
3	Cr 267.716†	68.4	-12.4	-0.2814 ug/L	-0.2814 ppb	00:12:08
3	Cu 324.752†	5369.2	-206.6	-1.0722 ug/L	-1.0722 ppb	00:11:48
3	Mn 257.610†	493.6	39.1	0.0779 ug/L	0.0779 ppb	00:12:08
3	Mo 202.031†	12.8	6.4	0.8945 ug/L	0.8945 ppb	00:12:08
3	Ni 231.604†	60.7	-20.2	-0.9784 ug/L	-0.9784 ppb	00:12:08
3	P 214.914†	222.6	-6.3	-6.1861 ug/L	-6.1861 ppb	00:12:08
3	Pb 220.353†	-64.4	1.9	0.4490 ug/L	0.4490 ppb	00:12:08
3	S 181.975 Axial†	35.0	-2.6	-6.3693 ug/L	-6.3693 ppb	00:12:08
3	Sb 206.836†	34.2	-6.6	-3.9832 ug/L	-3.9832 ppb	00:12:08
3	Se 196.026†	-22.3	4.7	5.4389 ug/L	5.4389 ppb	00:12:08
3	Si 251.611†	561.3	-65.1	-3.6545 ug/L	-3.6545 ppb	00:12:08
3	Sn 189.927†	12.4	1.0	0.3279 ug/L	0.3279 ppb	00:12:08
3	Ti 334.940†	-1378.5	144.9	0.3760 ug/L	0.3760 ppb	00:11:48
3	Tl 190.801†	-26.1	2.7	1.5326 ug/L	1.5326 ppb	00:12:08
3	U 409.014†	-2528.5	377.3	20.694 ug/L	20.694 ppb	00:11:48
3	V 292.402†	-1670.4	25.7	0.3908 ug/L	0.3908 ppb	00:11:48
3	Zn 213.857†	622.3	-70.7	-1.2478 ug/L	-1.2478 ppb	00:12:08
3	SiO2†	570.3	-57.1	-6.8555 ug/L	-6.8555 ppb	00:12:24

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	526602.0	106.24 %	0.774			0.73%
Sc Radial	3800.3	121 %	1.9			1.61%
Y 371.029	441749.5	106.73 %	0.620			0.58%
Y RADIAL	4260.7	124.1 %	0.68			0.55%
Ag 328.068†	10.9	0.0852 ug/L	0.51657	0.0852 ppb	0.51657	606.23%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	10.5	13.743 ug/L	7.7517	13.743 ppb	7.7517	56.40%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.5	0.3832 ug/L	0.96679	0.3832 ppb	0.96679	252.26%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-35.5	-1.3722 ug/L	0.36684	-1.3722 ppb	0.36684	26.73%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.7	0.0557 ug/L	0.05339	0.0557 ppb	0.05339	95.87%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-68.5	-0.0414 ug/L	0.05509	-0.0414 ppb	0.05509	133.12%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-6.1	-14.288 ug/L	4.2165	-14.288 ppb	4.2165	29.51%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	11.8	0.2657 ug/L	0.26016	0.2657 ppb	0.26016	97.90%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	5.6	0.2053 ug/L	0.15159	0.2053 ppb	0.15159	73.85%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-13.7	-0.3067 ug/L	0.02943	-0.3067 ppb	0.02943	9.59%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-252.5	-1.3045 ug/L	0.32475	-1.3045 ppb	0.32475	24.89%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.6	10.162 ug/L	9.0864	10.162 ppb	9.0864	89.41%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-525.6	-131.83 ug/L	22.404	-131.83 ppb	22.404	17.00%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.1	5.9403 ug/L	37.50039	5.9403 ppb	37.50039	631.29%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	30.9	0.0609 ug/L	0.02299	0.0609 ppb	0.02299	37.77%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	4.3	0.6047 ug/L	0.65296	0.6047 ppb	0.65296	107.98%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	10.0	5.6918 ug/L	7.73396	5.6918 ppb	7.73396	135.88%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-9.4	-0.4577 ug/L	0.83522	-0.4577 ppb	0.83522	182.48%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-6.1	-5.9519 ug/L	8.95882	-5.9519 ppb	8.95882	150.52%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	4.8	1.1262 ug/L	0.88971	1.1262 ppb	0.88971	79.00%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-0.5	-1.1618 ug/L	5.79291	-1.1618 ppb	5.79291	498.61%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-2.4	-1.4449 ug/L	4.45705	-1.4449 ppb	4.45705	308.46%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	2.8	3.2874 ug/L	5.76842	3.2874 ppb	5.76842	175.47%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-72.7	-4.0769 ug/L	0.36613	-4.0769 ppb	0.36613	8.98%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-0.2	-0.0771 ug/L	2.68796	-0.0771 ppb	2.68796	>999.9%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-7.3	-0.0926 ug/L	0.11606	-0.0926 ppb	0.11606	125.36%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	145.7	0.3789 ug/L	0.09567	0.3789 ppb	0.09567	25.25%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-2.7	-1.5331 ug/L	2.77810	-1.5331 ppb	2.77810	181.21%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	269.6	14.788 ug/L	5.1155	14.788 ppb	5.1155	34.59%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	62.6	0.8639 ug/L	0.54458	0.8639 ppb	0.54458	63.04%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-68.9	-1.2184 ug/L	0.05783	-1.2184 ppb	0.05783	4.75%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	-68.9	-8.2503 ug/L	3.13974	-8.2503 ppb	3.13974	38.06%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 65
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 3/30/2010 01:18:30
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3988.7	3988.7	127 %		01:20:21
1	Y RADIAL	4317.2	4317.2	125.8 %		01:20:21
1	Al 396.153Radial†	4376.3	3537.1	4628.0 ug/L	4628.0 ppb	01:20:21
1	Ca 317.933Radial†	2489.9	1944.5	4589.5 ug/L	4589.5 ppb	01:20:42
1	Fe 238.204 Radial†	367.1	282.9	4641.5 ug/L	4641.5 ppb	01:20:42
1	K 766.490 Radial†	27287.1	18683.2	4680.6 ug/L	4680.6 ppb	01:20:21
1	Mg 279.077 IEC†	121.6	94.4	4982.9 ug/L	4982.9 ppb	01:20:42
1	Na 589.592 Radial†	19493.6	15972.4	9088.2 ug/L	9088.2 ppb	01:20:21
1	Sr 421.552†	47799.7	37643.5	479.17 ug/L	479.17 ppb	01:20:21
1	Sc 361.383	678209.9	678209.9	136.83 %		01:21:38
1	Y 371.029	440008.8	440008.8	106.31 %		01:21:44
1	Ag 328.068†	83428.3	60850.9	508.06 ug/L	508.06 ppb	01:21:44
1	As 188.979†	847.3	641.9	503.74 ug/L	503.74 ppb	01:22:04
1	B 249.677†	17110.9	12913.0	496.60 ug/L	496.60 ppb	01:21:44
1	Ba 233.527†	48212.0	35242.2	509.06 ug/L	509.06 ppb	01:21:44
1	Be 313.107†	1110021.1	815120.2	503.70 ug/L	503.70 ppb	01:21:38
1	Cd 226.502†	31035.4	22884.2	514.26 ug/L	514.26 ppb	01:21:44
1	Co 228.616†	18940.6	13900.0	511.11 ug/L	511.11 ppb	01:21:44
1	Cr 267.716†	31267.3	22774.6	506.67 ug/L	506.67 ppb	01:21:44
1	Cu 324.752†	140391.4	97378.1	500.15 ug/L	500.15 ppb	01:21:44
1	Mn 257.610†	353539.3	257952.8	502.37 ug/L	502.37 ppb	01:21:44
1	Mo 202.031†	4741.6	3459.7	485.00 ug/L	485.00 ppb	01:22:04
1	Ni 231.604†	14404.9	10450.6	506.58 ug/L	506.58 ppb	01:21:44
1	P 214.914†	3571.3	2395.7	2337.2 ug/L	2337.2 ppb	01:22:04
1	Pb 220.353†	2776.0	2090.8	492.76 ug/L	492.76 ppb	01:22:04
1	S 181.975 Axial†	601.8	404.5	993.44 ug/L	993.44 ppb	01:22:04
1	Sb 206.836†	1147.8	800.4	505.25 ug/L	505.25 ppb	01:22:04
1	Se 196.026†	544.2	423.2	504.76 ug/L	504.76 ppb	01:22:04
1	Si 251.611†	63914.2	46120.5	2574.9 ug/L	2574.9 ppb	01:21:44
1	Sn 189.927†	1945.1	1410.8	486.85 ug/L	486.85 ppb	01:22:04
1	Ti 334.940†	253919.1	187002.9	497.39 ug/L	497.39 ppb	01:21:44
1	Tl 190.801†	1132.3	854.5	492.54 ug/L	492.54 ppb	01:22:04
1	U 409.014†	9714.1	9839.1	537.95 ug/L	537.95 ppb	01:21:44
1	V 292.402†	50125.6	38219.4	512.41 ug/L	512.41 ppb	01:21:44
1	Zn 213.857†	40519.1	28960.2	508.85 ug/L	508.85 ppb	01:21:44
1	SiO2†	63229.8	45619.8	5440.1 ug/L	5440.1 ppb	01:23:11
2	Sc Radial	3776.5	3776.5	120 %		01:20:47
2	Y RADIAL	4091.8	4091.8	119.2 %		01:20:47
2	Al 396.153Radial†	4152.9	3545.0	4638.0 ug/L	4638.0 ppb	01:20:47
2	Ca 317.933Radial†	2468.0	2036.5	4806.7 ug/L	4806.7 ppb	01:21:07
2	Fe 238.204 Radial†	363.0	295.8	4852.1 ug/L	4852.1 ppb	01:21:07
2	K 766.490 Radial†	26332.6	19097.3	4784.4 ug/L	4784.4 ppb	01:20:47
2	Mg 279.077 IEC†	117.2	96.1	5073.0 ug/L	5073.0 ppb	01:21:07
2	Na 589.592 Radial†	18369.6	15900.1	9047.0 ug/L	9047.0 ppb	01:20:47
2	Sr 421.552†	45145.5	37551.1	477.99 ug/L	477.99 ppb	01:20:47
2	Sc 361.383	684000.4	684000.4	138.00 %		01:22:09
2	Y 371.029	442124.8	442124.8	106.82 %		01:22:14
2	Ag 328.068†	84193.9	60889.5	508.45 ug/L	508.45 ppb	01:22:14
2	As 188.979†	877.0	658.1	516.43 ug/L	516.43 ppb	01:22:34
2	B 249.677†	17345.5	12977.2	499.04 ug/L	499.04 ppb	01:22:14
2	Ba 233.527†	48648.3	35260.0	509.33 ug/L	509.33 ppb	01:22:14
2	Be 313.107†	1125428.7	819417.5	506.35 ug/L	506.35 ppb	01:22:09
2	Cd 226.502†	31352.9	22922.2	515.10 ug/L	515.10 ppb	01:22:14
2	Co 228.616†	19215.4	13981.9	514.14 ug/L	514.14 ppb	01:22:14
2	Cr 267.716†	31585.9	22812.1	507.53 ug/L	507.53 ppb	01:22:14
2	Cu 324.752†	141946.9	97636.6	501.49 ug/L	501.49 ppb	01:22:14
2	Mn 257.610†	356948.2	258235.7	502.93 ug/L	502.93 ppb	01:22:14
2	Mo 202.031†	4876.0	3527.7	494.55 ug/L	494.55 ppb	01:22:34
2	Ni 231.604†	14587.5	10493.8	508.68 ug/L	508.68 ppb	01:22:14

2	P 214.914†	3682.0	2453.8	2395.9 ug/L	2395.9 ppb	01:22:34
2	Pb 220.353†	2839.0	2119.3	499.46 ug/L	499.46 ppb	01:22:34
2	S 181.975 Axial†	615.0	410.3	1007.7 ug/L	1007.7 ppb	01:22:34
2	Sb 206.836†	1179.1	816.0	515.10 ug/L	515.10 ppb	01:22:34
2	Se 196.026†	576.1	443.0	528.19 ug/L	528.19 ppb	01:22:34
2	Si 251.611†	64578.9	46206.7	2579.6 ug/L	2579.6 ppb	01:22:14
2	Sn 189.927†	2004.3	1441.7	497.54 ug/L	497.54 ppb	01:22:34
2	Ti 334.940†	256768.9	187497.0	498.73 ug/L	498.73 ppb	01:22:14
2	Tl 190.801†	1169.7	874.7	504.05 ug/L	504.05 ppb	01:22:34
2	U 409.014†	9762.0	9813.7	536.54 ug/L	536.54 ppb	01:22:14
2	V 292.402†	50704.4	38328.7	513.96 ug/L	513.96 ppb	01:22:14
2	Zn 213.857†	40848.1	28947.9	508.58 ug/L	508.58 ppb	01:22:14
2	SiO2†	63388.6	45343.7	5406.9 ug/L	5406.9 ppb	01:23:16
3	Sc Radial	3968.7	3968.7	126 %		01:21:12
3	Y RADIAL	4297.3	4297.3	125.2 %		01:21:12
3	Al 396.153Radial†	4362.9	3543.9	4636.5 ug/L	4636.5 ppb	01:21:12
3	Ca 317.933Radial†	2493.5	1957.1	4619.4 ug/L	4619.4 ppb	01:21:32
3	Fe 238.204 Radial†	371.2	287.6	4718.4 ug/L	4718.4 ppb	01:21:32
3	K 766.490 Radial†	27356.8	18846.6	4721.6 ug/L	4721.6 ppb	01:21:12
3	Mg 279.077 IEC†	117.9	91.9	4852.8 ug/L	4852.8 ppb	01:21:32
3	Na 589.592 Radial†	19275.9	15877.2	9034.0 ug/L	9034.0 ppb	01:21:12
3	Sr 421.552†	47587.4	37664.8	479.44 ug/L	479.44 ppb	01:21:12
3	Sc 361.383	677976.7	677976.7	136.78 %		01:22:40
3	Y 371.029	436111.2	436111.2	105.37 %		01:22:45
3	Ag 328.068†	80865.4	58998.2	492.67 ug/L	492.67 ppb	01:22:45
3	As 188.979†	863.6	654.0	513.03 ug/L	513.03 ppb	01:23:05
3	B 249.677†	16624.2	12561.5	483.05 ug/L	483.05 ppb	01:22:45
3	Ba 233.527†	46898.0	34293.6	495.37 ug/L	495.37 ppb	01:22:45
3	Be 313.107†	1110928.8	816062.7	504.24 ug/L	504.24 ppb	01:22:40
3	Cd 226.502†	30192.4	22275.7	500.57 ug/L	500.57 ppb	01:22:45
3	Co 228.616†	18474.1	13563.7	498.79 ug/L	498.79 ppb	01:22:45
3	Cr 267.716†	30443.1	22179.9	493.47 ug/L	493.47 ppb	01:22:45
3	Cu 324.752†	135874.2	94111.0	483.39 ug/L	483.39 ppb	01:22:45
3	Mn 257.610†	344317.1	251299.5	489.43 ug/L	489.43 ppb	01:22:45
3	Mo 202.031†	4834.4	3528.7	494.67 ug/L	494.67 ppb	01:23:05
3	Ni 231.604†	14095.6	10228.1	495.80 ug/L	495.80 ppb	01:22:45
3	P 214.914†	3634.5	2442.8	2388.4 ug/L	2388.4 ppb	01:23:05
3	Pb 220.353†	2838.3	2137.1	503.64 ug/L	503.64 ppb	01:23:05
3	S 181.975 Axial†	615.1	414.4	1017.6 ug/L	1017.6 ppb	01:23:05
3	Sb 206.836†	1155.7	806.4	509.27 ug/L	509.27 ppb	01:23:05
3	Se 196.026†	576.6	447.1	532.56 ug/L	532.56 ppb	01:23:05
3	Si 251.611†	61794.9	44587.2	2489.0 ug/L	2489.0 ppb	01:22:45
3	Sn 189.927†	1987.4	1442.3	497.68 ug/L	497.68 ppb	01:23:05
3	Ti 334.940†	246752.4	181827.4	483.65 ug/L	483.65 ppb	01:22:45
3	Tl 190.801†	1154.9	871.4	502.09 ug/L	502.09 ppb	01:23:05
3	U 409.014†	9079.7	9377.7	512.67 ug/L	512.67 ppb	01:22:45
3	V 292.402†	48646.0	37150.3	498.36 ug/L	498.36 ppb	01:22:45
3	Zn 213.857†	39364.2	28126.0	494.14 ug/L	494.14 ppb	01:22:45
3	SiO2†	63663.0	45952.4	5479.6 ug/L	5479.6 ppb	01:23:21

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	680062.3	137.21 %	0.688			0.50%
Sc Radial	3911.3	124 %	3.7			3.00%
Y 371.029	439415.0	106.16 %	0.737			0.69%
Y RADIAL	4235.5	123.4 %	3.64			2.95%
Ag 328.068†	60246.2	503.06 ug/L	9.001	503.06 ppb	9.001	1.79%
QC value within limits for Ag 328.068 Recovery = 100.61%						
Al 396.153Radial†	3542.0	4634.2 ug/L	5.35	4634.2 ppb	5.35	0.12%
QC value within limits for Al 396.153Radial Recovery = 92.68%						
As 188.979†	651.3	511.07 ug/L	6.568	511.07 ppb	6.568	1.29%
QC value within limits for As 188.979 Recovery = 102.21%						
B 249.677†	12817.2	492.89 ug/L	8.616	492.89 ppb	8.616	1.75%
QC value within limits for B 249.677 Recovery = 98.58%						
Ba 233.527†	34931.9	504.59 ug/L	7.986	504.59 ppb	7.986	1.58%
QC value within limits for Ba 233.527 Recovery = 100.92%						
Be 313.107†	816866.8	504.76 ug/L	1.400	504.76 ppb	1.400	0.28%
QC value within limits for Be 313.107 Recovery = 100.95%						
Ca 317.933Radial†	1979.4	4671.8 ug/L	117.72	4671.8 ppb	117.72	2.52%

QC value within limits for Ca 317.933 Radial Recovery = 93.44%									
Cd	226.502†	22694.0	509.97 ug/L	8.159	509.97 ppb	8.159	1.60%		
QC value within limits for Cd 226.502 Recovery = 101.99%									
Co	228.616†	13815.2	508.01 ug/L	8.127	508.01 ppb	8.127	1.60%		
QC value within limits for Co 228.616 Recovery = 101.60%									
Cr	267.716†	22588.9	502.56 ug/L	7.883	502.56 ppb	7.883	1.57%		
QC value within limits for Cr 267.716 Recovery = 100.51%									
Cu	324.752†	96375.2	495.01 ug/L	10.088	495.01 ppb	10.088	2.04%		
QC value within limits for Cu 324.752 Recovery = 99.00%									
Fe	238.204 Radial†	288.8	4737.3 ug/L	106.55	4737.3 ppb	106.55	2.25%		
QC value within limits for Fe 238.204 Radial Recovery = 94.75%									
K	766.490 Radial†	18875.7	4728.8 ug/L	52.28	4728.8 ppb	52.28	1.11%		
QC value within limits for K 766.490 Radial Recovery = 94.58%									
Mg	279.077 IEC†	94.1	4969.6 ug/L	110.72	4969.6 ppb	110.72	2.23%		
QC value within limits for Mg 279.077 IEC Recovery = 99.39%									
Mn	257.610†	255829.3	498.24 ug/L	7.639	498.24 ppb	7.639	1.53%		
QC value within limits for Mn 257.610 Recovery = 99.65%									
Mo	202.031†	3505.4	491.41 ug/L	5.550	491.41 ppb	5.550	1.13%		
QC value within limits for Mo 202.031 Recovery = 98.28%									
Na	589.592 Radial†	15916.6	9056.4 ug/L	28.27	9056.4 ppb	28.27	0.31%		
QC value within limits for Na 589.592 Radial Recovery = 90.56%									
Ni	231.604†	10390.8	503.69 ug/L	6.911	503.69 ppb	6.911	1.37%		
QC value within limits for Ni 231.604 Recovery = 100.74%									
P	214.914†	2430.8	2373.8 ug/L	31.94	2373.8 ppb	31.94	1.35%		
QC value within limits for P 214.914 Recovery = 94.95%									
Pb	220.353†	2115.7	498.62 ug/L	5.491	498.62 ppb	5.491	1.10%		
QC value within limits for Pb 220.353 Recovery = 99.72%									
S	181.975 Axial†	409.7	1006.3 ug/L	12.16	1006.3 ppb	12.16	1.21%		
QC value within limits for S 181.975 Axial Recovery = 100.63%									
Sb	206.836†	807.6	509.87 ug/L	4.955	509.87 ppb	4.955	0.97%		
QC value within limits for Sb 206.836 Recovery = 101.97%									
Se	196.026†	437.8	521.84 ug/L	14.953	521.84 ppb	14.953	2.87%		
QC value within limits for Se 196.026 Recovery = 104.37%									
Si	251.611†	45638.1	2547.8 ug/L	51.02	2547.8 ppb	51.02	2.00%		
QC value within limits for Si 251.611 Recovery = 101.91%									
Sn	189.927†	1431.6	494.02 ug/L	6.214	494.02 ppb	6.214	1.26%		
QC value within limits for Sn 189.927 Recovery = 98.80%									
Sr	421.552†	37619.8	478.86 ug/L	0.771	478.86 ppb	0.771	0.16%		
QC value within limits for Sr 421.552 Recovery = 95.77%									
Ti	334.940†	185442.4	493.25 ug/L	8.346	493.25 ppb	8.346	1.69%		
QC value within limits for Ti 334.940 Recovery = 98.65%									
Tl	190.801†	866.9	499.56 ug/L	6.160	499.56 ppb	6.160	1.23%		
QC value within limits for Tl 190.801 Recovery = 99.91%									
U	409.014†	9676.8	529.05 ug/L	14.205	529.05 ppb	14.205	2.68%		
QC value within limits for U 409.014 Recovery = 105.81%									
V	292.402†	37899.4	508.24 ug/L	8.597	508.24 ppb	8.597	1.69%		
QC value within limits for V 292.402 Recovery = 101.65%									
Zn	213.857†	28678.0	503.85 ug/L	8.417	503.85 ppb	8.417	1.67%		
QC value within limits for Zn 213.857 Recovery = 100.77%									
SiO2†		45638.7	5442.2 ug/L	36.42	5442.2 ppb	36.42	0.67%		
QC value within limits for SiO2 Recovery = 101.77%									

All analyte(s) passed QC.

Sequence No.: 66

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/30/2010 01:25:30

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	3854.3	3854.3	123 %		01:27:42
1	Y RADIAL	4279.4	4279.4	124.7 %		01:27:22
1	Al 396.153Radial†	-93.5	11.4	14.992 ug/L	14.992 ppb	01:27:22
1	Ca 317.933Radial†	14.1	-6.6	-15.620 ug/L	-15.620 ppb	01:27:42
1	Fe 238.204 Radial†	7.3	-0.5	-7.9135 ug/L	-7.9135 ppb	01:27:42
1	K 766.490 Radial†	2979.3	-394.3	-98.903 ug/L	-98.903 ppb	01:27:22
1	Mg 279.077 IEC†	2.5	0.6	31.572 ug/L	31.572 ppb	01:27:42
1	Na 589.592 Radial†	-742.5	1.8	1.0491 ug/L	1.0491 ppb	01:27:22
1	Sr 421.552†	23.6	-13.0	-0.1657 ug/L	-0.1657 ppb	01:27:22
1	Sc 361.383	681354.5	681354.5	137.47 %		01:28:39
1	Y 371.029	535159.5	535159.5	129.30 %		01:28:39
1	Ag 328.068†	81.9	-60.9	-0.5244 ug/L	-0.5244 ppb	01:28:39
1	As 188.979†	-18.3	9.3	7.2450 ug/L	7.2450 ppb	01:28:59
1	B 249.677†	-467.2	68.1	2.6304 ug/L	2.6304 ppb	01:28:59
1	Ba 233.527†	-3.3	5.3	0.0885 ug/L	0.0885 ppb	01:28:59
1	Be 313.107†	-4228.1	814.9	0.5049 ug/L	0.5049 ppb	01:28:39
1	Cd 226.502†	-196.2	60.1	1.3597 ug/L	1.3597 ppb	01:28:59
1	Co 228.616†	-51.0	20.6	0.7590 ug/L	0.7590 ppb	01:28:59
1	Cr 267.716†	96.5	-6.1	-0.1465 ug/L	-0.1465 ppb	01:28:59
1	Cu 324.752†	5343.6	-1336.1	-6.8900 ug/L	-6.8900 ppb	01:28:39
1	Mn 257.610†	485.5	-68.9	-0.1362 ug/L	-0.1362 ppb	01:28:59
1	Mo 202.031†	18.3	7.7	1.0825 ug/L	1.0825 ppb	01:28:59
1	Ni 231.604†	64.6	-29.9	-1.4485 ug/L	-1.4485 ppb	01:28:59
1	P 214.914†	216.2	-57.0	-56.599 ug/L	-56.599 ppb	01:28:59
1	Pb 220.353†	-67.5	12.9	3.0456 ug/L	3.0456 ppb	01:28:59
1	S 181.975 Axial†	29.3	-14.0	-34.415 ug/L	-34.415 ppb	01:28:59
1	Sb 206.836†	23.7	-21.3	-12.952 ug/L	-12.952 ppb	01:28:59
1	Se 196.026†	-24.0	8.0	9.2507 ug/L	9.2507 ppb	01:28:59
1	Si 251.611†	590.3	-160.1	-8.9744 ug/L	-8.9744 ppb	01:28:59
1	Sn 189.927†	8.1	-4.8	-1.6524 ug/L	-1.6524 ppb	01:28:59
1	Ti 334.940†	-1408.9	407.9	1.0599 ug/L	1.0599 ppb	01:28:39
1	Tl 190.801†	-36.9	0.2	0.1206 ug/L	0.1206 ppb	01:28:59
1	U 409.014†	-2568.1	871.7	47.806 ug/L	47.806 ppb	01:28:39
1	V 292.402†	-1611.4	414.2	5.5893 ug/L	5.5893 ppb	01:28:39
1	Zn 213.857†	636.4	-189.2	-3.3351 ug/L	-3.3351 ppb	01:28:59
1	SiO2†	596.0	-156.5	-18.732 ug/L	-18.732 ppb	01:29:55
2	Sc Radial	3786.0	3786.0	120 %		01:28:07
2	Y RADIAL	4315.6	4315.6	125.7 %		01:27:47
2	Al 396.153Radial†	-102.5	2.6	3.3745 ug/L	3.3745 ppb	01:27:47
2	Ca 317.933Radial†	11.0	-9.0	-21.271 ug/L	-21.271 ppb	01:28:07
2	Fe 238.204 Radial†	7.6	-0.1	-0.8878 ug/L	-0.8878 ppb	01:28:07
2	K 766.490 Radial†	3007.7	-326.9	-81.993 ug/L	-81.993 ppb	01:27:47
2	Mg 279.077 IEC†	3.6	1.5	78.804 ug/L	78.804 ppb	01:28:07
2	Na 589.592 Radial†	-748.8	-14.3	-8.1247 ug/L	-8.1247 ppb	01:27:47
2	Sr 421.552†	9.2	-24.6	-0.3130 ug/L	-0.3130 ppb	01:27:47
2	Sc 361.383	670667.0	670667.0	135.31 %		01:29:04
2	Y 371.029	525771.1	525771.1	127.03 %		01:29:04
2	Ag 328.068†	176.6	10.0	0.0512 ug/L	0.0512 ppb	01:29:04
2	As 188.979†	-30.9	-0.2	-0.1815 ug/L	-0.1815 ppb	01:29:24
2	B 249.677†	-494.4	42.6	1.6427 ug/L	1.6427 ppb	01:29:24
2	Ba 233.527†	4.0	10.7	0.1632 ug/L	0.1632 ppb	01:29:24
2	Be 313.107†	-4410.3	631.2	0.3915 ug/L	0.3915 ppb	01:29:04
2	Cd 226.502†	-215.4	43.6	0.9914 ug/L	0.9914 ppb	01:29:24
2	Co 228.616†	-50.3	20.6	0.7565 ug/L	0.7565 ppb	01:29:24
2	Cr 267.716†	94.6	-6.4	-0.1595 ug/L	-0.1595 ppb	01:29:24
2	Cu 324.752†	5498.0	-1160.0	-5.9922 ug/L	-5.9922 ppb	01:29:04
2	Mn 257.610†	470.3	-74.5	-0.1483 ug/L	-0.1483 ppb	01:29:24
2	Mo 202.031†	14.1	4.8	0.6724 ug/L	0.6724 ppb	01:29:24
2	Ni 231.604†	88.3	-11.6	-0.5624 ug/L	-0.5624 ppb	01:29:24

2	P 214.914†	217.1	-53.8	-53.522 ug/L	-53.522 ppb	01:29:24
2	Pb 220.353†	-74.0	7.4	1.7345 ug/L	1.7345 ppb	01:29:24
2	S 181.975 Axial†	39.4	-6.2	-15.281 ug/L	-15.281 ppb	01:29:24
2	Sb 206.836†	33.4	-13.8	-8.4237 ug/L	-8.4237 ppb	01:29:24
2	Se 196.026†	-29.3	3.8	4.4159 ug/L	4.4159 ppb	01:29:24
2	Si 251.611†	555.2	-179.2	-10.037 ug/L	-10.037 ppb	01:29:24
2	Sn 189.927†	8.7	-4.2	-1.4641 ug/L	-1.4641 ppb	01:29:24
2	Ti 334.940†	-1414.0	387.8	0.9961 ug/L	0.9961 ppb	01:29:04
2	Tl 190.801†	-31.9	3.5	1.9772 ug/L	1.9772 ppb	01:29:24
2	U 409.014†	-2210.3	1106.3	60.673 ug/L	60.673 ppb	01:29:04
2	V 292.402†	-1708.1	324.1	4.4151 ug/L	4.4151 ppb	01:29:04
2	Zn 213.857†	635.8	-182.2	-3.2191 ug/L	-3.2191 ppb	01:29:24
2	SiO2†	526.4	-201.0	-24.046 ug/L	-24.046 ppb	01:30:00
3	Sc Radial	3852.5	3852.5	123 %		01:28:32
3	Y RADIAL	4085.4	4085.4	119.0 %		01:28:12
3	Al 396.153Radial†	-99.8	6.3	8.2692 ug/L	8.2692 ppb	01:28:12
3	Ca 317.933Radial†	19.3	-2.3	-5.5330 ug/L	-5.5330 ppb	01:28:32
3	Fe 238.204 Radial†	10.0	1.8	28.783 ug/L	28.783 ppb	01:28:32
3	K 766.490 Radial†	2945.6	-420.7	-105.51 ug/L	-105.51 ppb	01:28:12
3	Mg 279.077 IEC†	8.7	5.6	296.52 ug/L	296.52 ppb	01:28:32
3	Na 589.592 Radial†	-809.0	-52.7	-29.992 ug/L	-29.992 ppb	01:28:12
3	Sr 421.552†	30.8	-7.1	-0.0905 ug/L	-0.0905 ppb	01:28:12
3	Sc 361.383	669880.0	669880.0	135.15 %		01:29:29
3	Y 371.029	526572.4	526572.4	127.22 %		01:29:29
3	Ag 328.068†	229.3	49.2	0.3928 ug/L	0.3928 ppb	01:29:29
3	As 188.979†	-20.7	7.3	5.6836 ug/L	5.6836 ppb	01:29:50
3	B 249.677†	-519.3	23.7	0.9098 ug/L	0.9098 ppb	01:29:50
3	Ba 233.527†	1.9	9.1	0.1425 ug/L	0.1425 ppb	01:29:50
3	Be 313.107†	-4244.2	750.4	0.4653 ug/L	0.4653 ppb	01:29:29
3	Cd 226.502†	-222.5	38.2	0.8648 ug/L	0.8648 ppb	01:29:50
3	Co 228.616†	-47.4	22.7	0.8344 ug/L	0.8344 ppb	01:29:50
3	Cr 267.716†	77.1	-19.2	-0.4380 ug/L	-0.4380 ppb	01:29:50
3	Cu 324.752†	5313.4	-1291.8	-6.6646 ug/L	-6.6646 ppb	01:29:29
3	Mn 257.610†	474.9	-70.7	-0.1469 ug/L	-0.1469 ppb	01:29:50
3	Mo 202.031†	17.2	7.1	1.0008 ug/L	1.0008 ppb	01:29:50
3	Ni 231.604†	69.0	-25.8	-1.2524 ug/L	-1.2524 ppb	01:29:50
3	P 214.914†	231.6	-43.0	-42.371 ug/L	-42.371 ppb	01:29:50
3	Pb 220.353†	-58.2	19.0	4.4709 ug/L	4.4709 ppb	01:29:50
3	S 181.975 Axial†	41.4	-4.7	-11.439 ug/L	-11.439 ppb	01:29:50
3	Sb 206.836†	39.5	-9.3	-5.6421 ug/L	-5.6421 ppb	01:29:50
3	Se 196.026†	-23.8	7.9	9.2104 ug/L	9.2104 ppb	01:29:50
3	Si 251.611†	550.9	-181.9	-10.191 ug/L	-10.191 ppb	01:29:50
3	Sn 189.927†	6.0	-6.2	-2.1286 ug/L	-2.1286 ppb	01:29:50
3	Ti 334.940†	-1329.0	449.5	1.1472 ug/L	1.1472 ppb	01:29:29
3	Tl 190.801†	-27.7	6.6	3.7672 ug/L	3.7672 ppb	01:29:50
3	U 409.014†	-2353.1	998.7	54.770 ug/L	54.770 ppb	01:29:29
3	V 292.402†	-1643.5	370.4	5.0209 ug/L	5.0209 ppb	01:29:29
3	Zn 213.857†	617.8	-195.0	-3.4449 ug/L	-3.4449 ppb	01:29:50
3	SiO2†	567.8	-169.9	-20.332 ug/L	-20.332 ppb	01:30:05

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	673967.2	135.98 %		1.293			0.95%
Sc Radial	3830.9	122 %		1.2			1.02%
Y 371.029	529167.7	127.85 %		1.257			0.98%
Y RADIAL	4226.8	123.2 %		3.61			2.93%
Ag 328.068†	-0.5	-0.0268 ug/L		0.46356	-0.0268 ppb	0.46356	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	6.8	8.8785 ug/L		5.83255	8.8785 ppb	5.83255	65.69%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	5.4	4.2490 ug/L		3.91556	4.2490 ppb	3.91556	92.15%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	44.8	1.7276 ug/L		0.86344	1.7276 ppb	0.86344	49.98%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	8.4	0.1314 ug/L		0.03859	0.1314 ppb	0.03859	29.37%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	732.2	0.4539 ug/L		0.05753	0.4539 ppb	0.05753	12.67%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-6.0	-14.141 ug/L		7.9727	-14.141 ppb	7.9727	56.38%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	47.3	1.0719 ug/L	0.25710	1.0719 ppb	0.25710	23.98%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	21.3	0.7833 ug/L	0.04426	0.7833 ppb	0.04426	5.65%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	-10.5	-0.2480 ug/L	0.16466	-0.2480 ppb	0.16466	66.40%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-1262.6	-6.5156 ug/L	0.46709	-6.5156 ppb	0.46709	7.17%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	0.4	6.6606 ug/L	19.47807	6.6606 ppb	19.47807	292.44%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	-380.6	-95.468 ug/L	12.1283	-95.468 ppb	12.1283	12.70%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	2.6	135.63 ug/L	141.321	135.63 ppb	141.321	104.19%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-71.4	-0.1438 ug/L	0.00665	-0.1438 ppb	0.00665	4.63%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	6.6	0.9186 ug/L	0.21706	0.9186 ppb	0.21706	23.63%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	-21.7	-12.356 ug/L	15.9474	-12.356 ppb	15.9474	129.07%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-22.4	-1.0878 ug/L	0.46541	-1.0878 ppb	0.46541	42.79%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	-51.3	-50.830 ug/L	7.4863	-50.830 ppb	7.4863	14.73%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	13.1	3.0837 ug/L	1.36857	3.0837 ppb	1.36857	44.38%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	-8.3	-20.378 ug/L	12.3070	-20.378 ppb	12.3070	60.39%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	-14.8	-9.0060 ug/L	3.68956	-9.0060 ppb	3.68956	40.97%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	6.6	7.6257 ug/L	2.77981	7.6257 ppb	2.77981	36.45%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	-173.8	-9.7344 ug/L	0.66270	-9.7344 ppb	0.66270	6.81%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	-5.1	-1.7484 ug/L	0.34251	-1.7484 ppb	0.34251	19.59%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-14.9	-0.1897 ug/L	0.11319	-0.1897 ppb	0.11319	59.65%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	415.1	1.0677 ug/L	0.07585	1.0677 ppb	0.07585	7.10%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	3.4	1.9550 ug/L	1.82342	1.9550 ppb	1.82342	93.27%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	992.2	54.416 ug/L	6.4409	54.416 ppb	6.4409	11.84%		
QC value greater than the upper limit for U 409.014 Recovery = Not calculated									
V	292.402†	369.5	5.0085 ug/L	0.58723	5.0085 ppb	0.58723	11.72%		
QC value greater than the upper limit for V 292.402 Recovery = Not calculated									
Zn	213.857†	-188.8	-3.3331 ug/L	0.11290	-3.3331 ppb	0.11290	3.39%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		-175.8	-21.036 ug/L	2.7262	-21.036 ppb	2.7262	12.96%		
QC value within limits for SiO2 Recovery = Not calculated									
QC Failed. Continue with analysis.									

Sequence No.: 67

Sample ID: 1202056918|959127|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 90

Date Collected: 3/30/2010 01:32:15

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056918|959127|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3761.1	3761.1	120 %		01:34:28
1	Y RADIAL	4292.1	4292.1	125.1 %		01:34:08
1	Al 396.153Radial†	-81.6	19.5	25.632 ug/L	25.632 ppb	01:34:28
1	Ca 317.933Radial†	17.8	-3.3	-7.7021 ug/L	-7.7021 ppb	01:34:28
1	Fe 238.204 Radial†	11.1	2.8	46.385 ug/L	46.385 ppb	01:34:28
1	K 766.490 Radial†	2865.2	-429.5	-107.73 ug/L	-107.73 ppb	01:34:08
1	Mg 279.077 IEC†	1.5	-0.2	-9.7784 ug/L	-9.7784 ppb	01:34:28
1	Na 589.592 Radial†	-722.5	3.6	2.0259 ug/L	2.0259 ppb	01:34:08
1	Sr 421.552†	63.0	20.4	0.2598 ug/L	0.2598 ppb	01:34:08
1	Sc 361.383	682840.8	682840.8	137.77 %		01:35:25
1	Y 371.029	535618.7	535618.7	129.41 %		01:35:25
1	Ag 328.068†	69.6	-69.9	-0.5949 ug/L	-0.5949 ppb	01:35:25
1	As 188.979†	-22.6	6.2	4.8609 ug/L	4.8609 ppb	01:35:45
1	B 249.677†	-550.8	8.1	0.3049 ug/L	0.3049 ppb	01:35:45
1	Ba 233.527†	2.8	9.8	0.1533 ug/L	0.1533 ppb	01:35:45
1	Be 313.107†	-4212.0	833.3	0.5175 ug/L	0.5175 ppb	01:35:25
1	Cd 226.502†	-215.1	46.7	1.0561 ug/L	1.0561 ppb	01:35:45
1	Co 228.616†	-54.2	18.4	0.6748 ug/L	0.6748 ppb	01:35:45
1	Cr 267.716†	96.4	-6.3	-0.1521 ug/L	-0.1521 ppb	01:35:45
1	Cu 324.752†	5515.3	-1219.9	-6.2978 ug/L	-6.2978 ppb	01:35:25
1	Mn 257.610†	769.1	136.2	0.2701 ug/L	0.2701 ppb	01:35:45
1	Mo 202.031†	14.2	4.7	0.6678 ug/L	0.6678 ppb	01:35:45
1	Ni 231.604†	91.6	-10.3	-0.5020 ug/L	-0.5020 ppb	01:35:45
1	P 214.914†	211.2	-61.0	-60.778 ug/L	-60.778 ppb	01:35:45
1	Pb 220.353†	-68.4	12.4	2.9138 ug/L	2.9138 ppb	01:35:45
1	S 181.975 Axial†	39.1	-7.0	-17.137 ug/L	-17.137 ppb	01:35:45
1	Sb 206.836†	41.2	-8.6	-5.2220 ug/L	-5.2220 ppb	01:35:45
1	Se 196.026†	-23.7	8.3	9.7105 ug/L	9.7105 ppb	01:35:45
1	Si 251.611†	1031.6	159.3	8.9069 ug/L	8.9069 ppb	01:35:45
1	Sn 189.927†	12.7	-1.4	-0.4809 ug/L	-0.4809 ppb	01:35:45
1	Ti 334.940†	-1128.5	613.7	1.6060 ug/L	1.6060 ppb	01:35:25
1	Tl 190.801†	-38.0	-0.5	-0.3083 ug/L	-0.3083 ppb	01:35:45
1	U 409.014†	-2239.7	1114.1	61.094 ug/L	61.094 ppb	01:35:25
1	V 292.402†	-1648.5	389.8	5.2769 ug/L	5.2769 ppb	01:35:25
1	Zn 213.857†	735.3	-118.4	-2.0941 ug/L	-2.0941 ppb	01:35:45
1	SiO2†	1072.3	188.3	22.496 ug/L	22.496 ppb	01:36:41
2	Sc Radial	3791.3	3791.3	121 %		01:34:53
2	Y RADIAL	4219.8	4219.8	122.9 %		01:34:33
2	Al 396.153Radial†	-83.0	18.9	24.834 ug/L	24.834 ppb	01:34:53
2	Ca 317.933Radial†	21.3	-0.5	-1.0860 ug/L	-1.0860 ppb	01:34:53
2	Fe 238.204 Radial†	10.3	2.1	34.518 ug/L	34.518 ppb	01:34:53
2	K 766.490 Radial†	2975.9	-356.8	-89.504 ug/L	-89.504 ppb	01:34:33
2	Mg 279.077 IEC†	3.2	1.2	61.617 ug/L	61.617 ppb	01:34:53
2	Na 589.592 Radial†	-686.9	37.9	21.560 ug/L	21.560 ppb	01:34:33
2	Sr 421.552†	33.8	-4.2	-0.0536 ug/L	-0.0536 ppb	01:34:33
2	Sc 361.383	661692.2	661692.2	133.50 %		01:35:50
2	Y 371.029	520244.5	520244.5	125.69 %		01:35:50
2	Ag 328.068†	183.6	17.1	0.1216 ug/L	0.1216 ppb	01:35:50
2	As 188.979†	-29.8	0.3	0.2277 ug/L	0.2277 ppb	01:36:10
2	B 249.677†	-561.4	-12.6	-0.4943 ug/L	-0.4943 ppb	01:36:10
2	Ba 233.527†	15.0	18.9	0.2858 ug/L	0.2858 ppb	01:36:10
2	Be 313.107†	-4130.3	796.8	0.4942 ug/L	0.4942 ppb	01:35:50
2	Cd 226.502†	-198.3	54.2	1.2276 ug/L	1.2276 ppb	01:36:10
2	Co 228.616†	-45.4	23.7	0.8706 ug/L	0.8706 ppb	01:36:10
2	Cr 267.716†	116.7	11.2	0.2336 ug/L	0.2336 ppb	01:36:10
2	Cu 324.752†	5408.8	-1171.7	-6.0524 ug/L	-6.0524 ppb	01:35:50
2	Mn 257.610†	727.2	122.7	0.2396 ug/L	0.2396 ppb	01:36:10
2	Mo 202.031†	15.3	5.9	0.8287 ug/L	0.8287 ppb	01:36:10
2	Ni 231.604†	84.2	-13.8	-0.6675 ug/L	-0.6675 ppb	01:36:10

2	P 214.914†	224.2	-46.4	-45.954 ug/L	-45.954 ppb	01:36:10
2	Pb 220.353†	-65.6	12.9	3.0468 ug/L	3.0468 ppb	01:36:10
2	S 181.975 Axial†	43.2	-2.9	-7.1966 ug/L	-7.1966 ppb	01:36:10
2	Sb 206.836†	35.1	-12.2	-7.4313 ug/L	-7.4313 ppb	01:36:10
2	Se 196.026†	-18.6	11.5	13.462 ug/L	13.462 ppb	01:36:10
2	Si 251.611†	1044.7	193.0	10.792 ug/L	10.792 ppb	01:36:10
2	Sn 189.927†	7.9	-4.7	-1.6203 ug/L	-1.6203 ppb	01:36:10
2	Ti 334.940†	-1260.8	488.4	1.2661 ug/L	1.2661 ppb	01:35:50
2	Tl 190.801†	-41.5	-4.0	-2.3151 ug/L	-2.3151 ppb	01:36:10
2	U 409.014†	-2093.1	1172.0	64.271 ug/L	64.271 ppb	01:35:50
2	V 292.402†	-1579.1	403.6	5.4708 ug/L	5.4708 ppb	01:35:50
2	Zn 213.857†	726.8	-107.7	-1.9024 ug/L	-1.9024 ppb	01:36:10
2	SiO2†	1054.6	200.0	23.880 ug/L	23.880 ppb	01:36:46
3	Sc Radial	3837.0	3837.0	122 %		01:35:18
3	Y RADIAL	4296.4	4296.4	125.2 %		01:34:58
3	Al 396.153Radial†	-84.8	18.2	23.938 ug/L	23.938 ppb	01:35:18
3	Ca 317.933Radial†	20.3	-1.5	-3.5287 ug/L	-3.5287 ppb	01:35:18
3	Fe 238.204 Radial†	11.4	3.0	48.471 ug/L	48.471 ppb	01:35:18
3	K 766.490 Radial†	2969.1	-391.8	-98.276 ug/L	-98.276 ppb	01:34:58
3	Mg 279.077 IEC†	1.8	0.0	2.0326 ug/L	2.0326 ppb	01:35:18
3	Na 589.592 Radial†	-694.7	38.3	21.784 ug/L	21.784 ppb	01:34:58
3	Sr 421.552†	21.6	-14.6	-0.1852 ug/L	-0.1852 ppb	01:34:58
3	Sc 361.383	663160.5	663160.5	133.80 %		01:36:16
3	Y 371.029	520960.6	520960.6	125.87 %		01:36:16
3	Ag 328.068†	63.6	-72.9	-0.6161 ug/L	-0.6161 ppb	01:36:16
3	As 188.979†	-21.9	6.3	4.9029 ug/L	4.9029 ppb	01:36:36
3	B 249.677†	-563.7	-13.4	-0.5248 ug/L	-0.5248 ppb	01:36:36
3	Ba 233.527†	7.3	13.1	0.2015 ug/L	0.2015 ppb	01:36:36
3	Be 313.107†	-4100.9	825.6	0.5123 ug/L	0.5123 ppb	01:36:16
3	Cd 226.502†	-201.3	52.3	1.1815 ug/L	1.1815 ppb	01:36:36
3	Co 228.616†	-61.6	11.7	0.4299 ug/L	0.4299 ppb	01:36:36
3	Cr 267.716†	108.2	4.6	0.0930 ug/L	0.0930 ppb	01:36:36
3	Cu 324.752†	5210.4	-1329.0	-6.8551 ug/L	-6.8551 ppb	01:36:16
3	Mn 257.610†	727.2	121.5	0.2412 ug/L	0.2412 ppb	01:36:36
3	Mo 202.031†	18.7	8.4	1.1753 ug/L	1.1753 ppb	01:36:36
3	Ni 231.604†	78.7	-18.0	-0.8727 ug/L	-0.8727 ppb	01:36:36
3	P 214.914†	230.9	-41.7	-41.052 ug/L	-41.052 ppb	01:36:36
3	Pb 220.353†	-68.5	10.9	2.5564 ug/L	2.5564 ppb	01:36:36
3	S 181.975 Axial†	37.4	-7.4	-18.072 ug/L	-18.072 ppb	01:36:36
3	Sb 206.836†	38.2	-9.9	-6.0169 ug/L	-6.0169 ppb	01:36:36
3	Se 196.026†	-24.7	7.1	8.2992 ug/L	8.2992 ppb	01:36:36
3	Si 251.611†	1051.9	196.7	10.992 ug/L	10.992 ppb	01:36:36
3	Sn 189.927†	15.0	0.5	0.1861 ug/L	0.1861 ppb	01:36:36
3	Ti 334.940†	-1191.2	542.5	1.4184 ug/L	1.4184 ppb	01:36:16
3	Tl 190.801†	-34.1	1.6	0.9074 ug/L	0.9074 ppb	01:36:36
3	U 409.014†	-2301.9	1019.3	55.898 ug/L	55.898 ppb	01:36:16
3	V 292.402†	-1633.3	365.7	4.9543 ug/L	4.9543 ppb	01:36:16
3	Zn 213.857†	721.9	-112.6	-1.9887 ug/L	-1.9887 ppb	01:36:36
3	SiO2†	1079.4	216.8	25.879 ug/L	25.879 ppb	01:36:51

Mean Data: 1202056918|959127|1

	Mean Corrected		Calib.		Sample		
Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev. RSD
Sc 361.383	669231.2	135.02	%	2.383			1.76%
Sc Radial	3796.5	121	%	1.2			1.01%
Y 371.029	525607.9	126.99	%	2.096			1.65%
Y RADIAL	4269.4	124.4	%	1.25			1.01%
Ag 328.068†	-41.9	-0.3632	ug/L	0.41995	-0.3632	ppb	0.41995 115.64%
Al 396.153Radial†	18.9	24.801	ug/L	0.8477	24.801	ppb	0.8477 3.42%
As 188.979†	4.3	3.3305	ug/L	2.68717	3.3305	ppb	2.68717 80.68%
B 249.677†	-5.9	-0.2381	ug/L	0.47045	-0.2381	ppb	0.47045 197.60%
Ba 233.527†	13.9	0.2135	ug/L	0.06710	0.2135	ppb	0.06710 31.42%
Be 313.107†	818.6	0.5080	ug/L	0.01221	0.5080	ppb	0.01221 2.40%
Ca 317.933Radial†	-1.7	-4.1056	ug/L	3.34553	-4.1056	ppb	3.34553 81.49%
Cd 226.502†	51.1	1.1551	ug/L	0.08879	1.1551	ppb	0.08879 7.69%
Co 228.616†	18.0	0.6584	ug/L	0.22082	0.6584	ppb	0.22082 33.54%
Cr 267.716†	3.2	0.0582	ug/L	0.19520	0.0582	ppb	0.19520 335.60%
Cu 324.752†	-1240.2	-6.4018	ug/L	0.41129	-6.4018	ppb	0.41129 6.42%
Fe 238.204 Radial†	2.6	43.124	ug/L	7.5264	43.124	ppb	7.5264 17.45%
K 766.490 Radial†	-392.7	-98.502	ug/L	9.1129	-98.502	ppb	9.1129 9.25%

Mg 279.077 IEC†	0.3	17.957 ug/L	38.2692	17.957 ppb	38.2692	213.11%
Mn 257.610†	126.8	0.2503 ug/L	0.01714	0.2503 ppb	0.01714	6.85%
Mo 202.031†	6.3	0.8906 ug/L	0.25932	0.8906 ppb	0.25932	29.12%
Na 589.592 Radial†	26.6	15.123 ug/L	11.3434	15.123 ppb	11.3434	75.01%
Ni 231.604†	-14.0	-0.6807 ug/L	0.18568	-0.6807 ppb	0.18568	27.28%
P 214.914†	-49.7	-49.262 ug/L	10.2707	-49.262 ppb	10.2707	20.85%
Pb 220.353†	12.1	2.8390 ug/L	0.25361	2.8390 ppb	0.25361	8.93%
S 181.975 Axial†	-5.7	-14.135 ug/L	6.0272	-14.135 ppb	6.0272	42.64%
Sb 206.836†	-10.2	-6.2234 ug/L	1.11899	-6.2234 ppb	1.11899	17.98%
Se 196.026†	9.0	10.490 ug/L	2.6682	10.490 ppb	2.6682	25.43%
Si 251.611†	183.0	10.230 ug/L	1.1504	10.230 ppb	1.1504	11.24%
Sn 189.927†	-1.9	-0.6384 ug/L	0.91344	-0.6384 ppb	0.91344	143.08%
Sr 421.552†	0.5	0.0070 ug/L	0.22863	0.0070 ppb	0.22863	>999.9%
Ti 334.940†	548.2	1.4302 ug/L	0.17025	1.4302 ppb	0.17025	11.90%
Tl 190.801†	-1.0	-0.5720 ug/L	1.62736	-0.5720 ppb	1.62736	284.51%
U 409.014†	1101.8	60.421 ug/L	4.2266	60.421 ppb	4.2266	7.00%
V 292.402†	386.4	5.2340 ug/L	0.26092	5.2340 ppb	0.26092	4.99%
Zn 213.857†	-112.9	-1.9951 ug/L	0.09598	-1.9951 ppb	0.09598	4.81%
SiO2†	201.7	24.085 ug/L	1.7009	24.085 ppb	1.7009	7.06%

Sequence No.: 68

Sample ID: 1202056923|959127|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 91

Date Collected: 3/30/2010 01:39:03

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056923|959127|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3926.3	3926.3	125 %			01:41:16
1	Y RADIAL	4688.2	4688.2	136.6 %			01:41:16
1	Al 396.153Radial†	90569.8	72608.6	95460 ug/L		95460 ppb	01:40:56
1	Ca 317.933Radial†	51632.0	41324.6	97538 ug/L		97538 ppb	01:40:56
1	Fe 238.204 Radial†	13184.6	10550.7	172550 ug/L		172550 ppb	01:41:16
1	K 766.490 Radial†	217927.4	171674.0	43022 ug/L		43022 ppb	01:40:56
1	Mg 279.077 IEC†	899.6	718.9	37780 ug/L		37780 ppb	01:41:16
1	Na 589.592 Radial†	22879.5	18927.5	10770 ug/L		10770 ppb	01:40:56
1	Sr 421.552†	239214.9	191511.6	2437.2 ug/L		2437.2 ppb	01:40:56
1	Sc 361.383	703382.6	703382.6	141.91 %			01:42:20
1	Y 371.029	598809.4	598809.4	144.67 %			01:42:20
1	Ag 328.068†	43215.6	30332.2	309.04 ug/L		309.04 ppb	01:42:20
1	As 188.979†	1840.7	1319.7	1117.9 ug/L		1117.9 ppb	01:42:40
1	B 249.677†	58158.7	41390.6	1568.2 ug/L		1568.2 ppb	01:42:20
1	Ba 233.527†	189005.3	133193.8	1927.3 ug/L		1927.3 ppb	01:42:20
1	Be 313.107†	1857953.6	1313132.5	823.17 ug/L		823.17 ppb	01:42:14
1	Cd 226.502†	40274.9	28583.3	625.46 ug/L		625.46 ppb	01:42:40
1	Co 228.616†	36186.4	25557.2	925.71 ug/L		925.71 ppb	01:42:40
1	Cr 267.716†	162296.8	114289.2	2557.8 ug/L		2557.8 ppb	01:42:20
1	Cu 324.752†	538896.9	374520.5	1933.0 ug/L		1933.0 ppb	01:42:20
1	Mn 257.610†	3966348.9	2794540.0	5455.1 ug/L		5455.1 ppb	01:42:14
1	Mo 202.031†	5391.0	3793.3	545.86 ug/L		545.86 ppb	01:42:40
1	Ni 231.604†	41640.7	29266.1	1418.9 ug/L		1418.9 ppb	01:42:20
1	P 214.914†	12450.3	8559.0	8210.1 ug/L		8210.1 ppb	01:42:40
1	Pb 220.353†	4716.8	3385.8	804.02 ug/L		804.02 ppb	01:42:40
1	S 181.975 Axial†	2423.5	1672.5	4093.0 ug/L		4093.0 ppb	01:42:40
1	Sb 206.836†	3837.3	2665.5	1631.7 ug/L		1631.7 ppb	01:42:40
1	Se 196.026†	3126.2	2228.4	3064.8 ug/L		3064.8 ppb	01:42:40
1	Si 251.611†	894370.3	629645.3	35228 ug/L		35228 ppb	01:42:14
1	Sn 189.927†	4234.1	2973.0	1064.0 ug/L		1064.0 ppb	01:42:40
1	Ti 334.940†	3180688.0	2242764.3	5976.9 ug/L		5976.9 ppb	01:42:14
1	Tl 190.801†	2753.9	1967.6	1195.4 ug/L		1195.4 ppb	01:42:40
1	U 409.014†	-6366.0	-1746.1	-121.11 ug/L		-121.11 ppb	01:42:20
1	V 292.402†	134622.6	96450.7	1252.2 ug/L		1252.2 ppb	01:42:20
1	Zn 213.857†	481924.1	338944.7	5971.8 ug/L		5971.8 ppb	01:42:20
1	SiO2†	906580.2	638248.7	76281 ug/L		76281 ppb	01:43:50
2	Sc Radial	4068.2	4068.2	129 %			01:41:41
2	Y RADIAL	4852.0	4852.0	141.4 %			01:41:41
2	Al 396.153Radial†	91150.1	70527.9	92723 ug/L		92723 ppb	01:41:21
2	Ca 317.933Radial†	52238.4	40351.4	95241 ug/L		95241 ppb	01:41:21
2	Fe 238.204 Radial†	13550.3	10465.2	171160 ug/L		171160 ppb	01:41:41
2	K 766.490 Radial†	219288.3	166639.9	41760 ug/L		41760 ppb	01:41:21
2	Mg 279.077 IEC†	928.0	715.7	37612 ug/L		37612 ppb	01:41:41
2	Na 589.592 Radial†	22823.1	18245.0	10381 ug/L		10381 ppb	01:41:21
2	Sr 421.552†	239272.4	184875.7	2352.8 ug/L		2352.8 ppb	01:41:21
2	Sc 361.383	684082.7	684082.7	138.02 %			01:42:52
2	Y 371.029	584961.1	584961.1	141.33 %			01:42:52
2	Ag 328.068†	42967.2	31011.4	314.42 ug/L		314.42 ppb	01:42:52
2	As 188.979†	1783.9	1315.1	1116.7 ug/L		1116.7 ppb	01:43:12
2	B 249.677†	58028.7	42452.6	1609.4 ug/L		1609.4 ppb	01:42:52
2	Ba 233.527†	189173.4	137073.2	1983.2 ug/L		1983.2 ppb	01:42:52
2	Be 313.107†	1903947.5	1383394.6	867.21 ug/L		867.21 ppb	01:42:46
2	Cd 226.502†	39728.1	28987.8	634.72 ug/L		634.72 ppb	01:43:12
2	Co 228.616†	35734.8	25949.4	939.49 ug/L		939.49 ppb	01:43:12
2	Cr 267.716†	162636.7	117762.1	2634.8 ug/L		2634.8 ppb	01:42:52
2	Cu 324.752†	538693.4	385086.7	1987.2 ug/L		1987.2 ppb	01:42:52
2	Mn 257.610†	4058475.0	2940143.4	5738.4 ug/L		5738.4 ppb	01:42:46
2	Mo 202.031†	5304.7	3838.0	551.98 ug/L		551.98 ppb	01:43:12
2	Ni 231.604†	41627.7	30084.5	1458.6 ug/L		1458.6 ppb	01:42:52

2	P 214.914†	12261.5	8669.7	8312.4 ug/L	8312.4 ppb	01:43:12
2	Pb 220.353†	4631.2	3417.6	810.87 ug/L	810.87 ppb	01:43:12
2	S 181.975 Axial†	2383.0	1691.3	4139.9 ug/L	4139.9 ppb	01:43:12
2	Sb 206.836†	3762.3	2687.5	1644.5 ug/L	1644.5 ppb	01:43:12
2	Se 196.026†	3074.3	2253.0	3088.8 ug/L	3088.8 ppb	01:43:12
2	Si 251.611†	917552.8	664222.7	37163 ug/L	37163 ppb	01:42:46
2	Sn 189.927†	4154.1	2999.2	1072.4 ug/L	1072.4 ppb	01:43:12
2	Ti 334.940†	3258104.2	2362090.2	6294.1 ug/L	6294.1 ppb	01:42:46
2	Tl 190.801†	2739.5	2011.9	1224.6 ug/L	1224.6 ppb	01:43:12
2	U 409.014†	-6242.6	-1783.3	-123.16 ug/L	-123.16 ppb	01:42:52
2	V 292.402†	134629.6	99132.2	1287.6 ug/L	1287.6 ppb	01:42:52
2	Zn 213.857†	480943.8	347815.4	6128.9 ug/L	6128.9 ppb	01:42:52
2	SiO2†	899756.6	651328.0	77844 ug/L	77844 ppb	01:43:56
3	Sc Radial	4103.2	4103.2	131 %		01:42:06
3	Y RADIAL	4878.8	4878.8	142.1 %		01:42:06
3	Al 396.153Radial†	90771.8	69637.8	91553 ug/L	91553 ppb	01:41:46
3	Ca 317.933Radial†	51858.9	39716.6	93742 ug/L	93742 ppb	01:41:46
3	Fe 238.204 Radial†	13463.4	10309.4	168610 ug/L	168610 ppb	01:42:06
3	K 766.490 Radial†	218070.2	164262.6	41165 ug/L	41165 ppb	01:41:46
3	Mg 279.077 IEC†	924.2	706.7	37141 ug/L	37141 ppb	01:42:06
3	Na 589.592 Radial†	22541.9	17879.3	10173 ug/L	10173 ppb	01:41:46
3	Sr 421.552†	237638.6	182048.3	2316.8 ug/L	2316.8 ppb	01:41:46
3	Sc 361.383	689478.3	689478.3	139.11 %		01:43:24
3	Y 371.029	590026.1	590026.1	142.55 %		01:43:24
3	Ag 328.068†	43468.8	31128.3	314.64 ug/L	314.64 ppb	01:43:24
3	As 188.979†	1808.2	1322.5	1120.7 ug/L	1120.7 ppb	01:43:44
3	B 249.677†	58844.3	42709.9	1619.7 ug/L	1619.7 ppb	01:43:24
3	Ba 233.527†	190581.0	137012.4	1982.3 ug/L	1982.3 ppb	01:43:24
3	Be 313.107†	1876159.5	1352622.9	847.93 ug/L	847.93 ppb	01:43:18
3	Cd 226.502†	39971.9	28937.8	633.86 ug/L	633.86 ppb	01:43:44
3	Co 228.616†	35949.8	25901.3	938.04 ug/L	938.04 ppb	01:43:44
3	Cr 267.716†	164134.3	117916.5	2638.0 ug/L	2638.0 ppb	01:43:24
3	Cu 324.752†	545604.7	387000.6	1996.9 ug/L	1996.9 ppb	01:43:24
3	Mn 257.610†	3998591.6	2874082.8	5609.6 ug/L	5609.6 ppb	01:43:18
3	Mo 202.031†	5344.1	3836.2	551.52 ug/L	551.52 ppb	01:43:44
3	Ni 231.604†	42005.3	30119.9	1460.3 ug/L	1460.3 ppb	01:43:24
3	P 214.914†	12310.1	8635.1	8277.0 ug/L	8277.0 ppb	01:43:44
3	Pb 220.353†	4661.5	3413.1	809.76 ug/L	809.76 ppb	01:43:44
3	S 181.975 Axial†	2393.1	1685.0	4124.6 ug/L	4124.6 ppb	01:43:44
3	Sb 206.836†	3787.3	2684.1	1643.0 ug/L	1643.0 ppb	01:43:44
3	Se 196.026†	3089.0	2246.1	3073.8 ug/L	3073.8 ppb	01:43:44
3	Si 251.611†	903766.2	649109.3	36317 ug/L	36317 ppb	01:43:18
3	Sn 189.927†	4192.0	3002.9	1073.0 ug/L	1073.0 ppb	01:43:44
3	Ti 334.940†	3214239.4	2312083.1	6160.9 ug/L	6160.9 ppb	01:43:18
3	Tl 190.801†	2745.4	2000.6	1216.5 ug/L	1216.5 ppb	01:43:44
3	U 409.014†	-6388.1	-1852.5	-126.68 ug/L	-126.68 ppb	01:43:24
3	V 292.402†	136100.1	99425.9	1292.0 ug/L	1292.0 ppb	01:43:24
3	Zn 213.857†	485509.9	348370.9	6139.1 ug/L	6139.1 ppb	01:43:24
3	SiO2†	922262.6	662405.5	79169 ug/L	79169 ppb	01:44:02

Mean Data: 1202056923|959127|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	692314.5	139.68 %		2.009			1.44%
Sc Radial	4032.6	128 %		3.0			2.32%
Y 371.029	591265.5	142.85 %		1.693			1.19%
Y RADIAL	4806.3	140.0 %		3.01			2.15%
Ag 328.068†	30824.0	312.70 ug/L		3.173	312.70 ppb	3.173	1.01%
Al 396.153Radial†	70924.8	93245 ug/L		2005.2	93245 ppb	2005.2	2.15%
As 188.979†	1319.1	1118.4 ug/L		2.03	1118.4 ppb	2.03	0.18%
B 249.677†	42184.4	1599.1 ug/L		27.28	1599.1 ppb	27.28	1.71%
Ba 233.527†	135759.8	1964.2 ug/L		32.02	1964.2 ppb	32.02	1.63%
Be 313.107†	1349716.7	846.10 ug/L		22.078	846.10 ppb	22.078	2.61%
Ca 317.933Radial†	40464.2	95507 ug/L		1911.7	95507 ppb	1911.7	2.00%
Cd 226.502†	28836.3	631.35 ug/L		5.117	631.35 ppb	5.117	0.81%
Co 228.616†	25802.6	934.42 ug/L		7.572	934.42 ppb	7.572	0.81%
Cr 267.716†	116655.9	2610.2 ug/L		45.41	2610.2 ppb	45.41	1.74%
Cu 324.752†	382202.6	1972.4 ug/L		34.44	1972.4 ppb	34.44	1.75%
Fe 238.204 Radial†	10441.8	170770 ug/L		2000.7	170770 ppb	2000.7	1.17%
K 766.490 Radial†	167525.5	41983 ug/L		948.5	41983 ppb	948.5	2.26%

Mg 279.077 IEC†	713.7	37511 ug/L	331.2	37511 ppb	331.2	0.88%
Mn 257.610†	2869588.7	5601.1 ug/L	141.84	5601.1 ppb	141.84	2.53%
Mo 202.031†	3822.5	549.79 ug/L	3.411	549.79 ppb	3.411	0.62%
Na 589.592 Radial†	18350.6	10441 ug/L	302.7	10441 ppb	302.7	2.90%
Ni 231.604†	29823.5	1446.0 ug/L	23.43	1446.0 ppb	23.43	1.62%
P 214.914†	8621.3	8266.5 ug/L	51.94	8266.5 ppb	51.94	0.63%
Pb 220.353†	3405.5	808.22 ug/L	3.679	808.22 ppb	3.679	0.46%
S 181.975 Axial†	1682.9	4119.2 ug/L	23.89	4119.2 ppb	23.89	0.58%
Sb 206.836†	2679.0	1639.8 ug/L	7.00	1639.8 ppb	7.00	0.43%
Se 196.026†	2242.5	3075.8 ug/L	12.10	3075.8 ppb	12.10	0.39%
Si 251.611†	647659.1	36236 ug/L	970.0	36236 ppb	970.0	2.68%
Sn 189.927†	2991.7	1069.8 ug/L	5.01	1069.8 ppb	5.01	0.47%
Sr 421.552†	186145.2	2368.9 ug/L	61.82	2368.9 ppb	61.82	2.61%
Ti 334.940†	2305645.8	6144.0 ug/L	159.27	6144.0 ppb	159.27	2.59%
Tl 190.801†	1993.4	1212.2 ug/L	15.07	1212.2 ppb	15.07	1.24%
U 409.014†	-1794.0	-123.65 ug/L	2.814	-123.65 ppb	2.814	2.28%
V 292.402†	98336.3	1277.2 ug/L	21.82	1277.2 ppb	21.82	1.71%
Zn 213.857†	345043.6	6080.0 ug/L	93.82	6080.0 ppb	93.82	1.54%
SiO2†	650660.8	77765 ug/L	1445.4	77765 ppb	1445.4	1.86%

Sequence No.: 69

Sample ID: 248198001|959127|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 92

Date Collected: 3/30/2010 01:46:14

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248198001|959127|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3877.7	3877.7	123 %		01:48:27
1	Y RADIAL	5109.1	5109.1	148.9 %		01:48:07
1	Al 396.153Radial†	57985.4	47100.1	61940 ug/L	61940 ppb	01:48:07
1	Ca 317.933Radial†	16076.3	13015.9	30721 ug/L	30721 ppb	01:48:07
1	Fe 238.204 Radial†	6845.4	5543.6	90651 ug/L	90651 ppb	01:48:07
1	K 766.490 Radial†	88403.8	68849.9	17258 ug/L	17258 ppb	01:48:07
1	Mg 279.077 IEC†	324.1	261.3	13703 ug/L	13703 ppb	01:48:27
1	Na 589.592 Radial†	1021.3	1435.6	816.83 ug/L	816.83 ppb	01:48:07
1	Sr 421.552†	21061.0	17043.2	216.73 ug/L	216.73 ppb	01:48:07
1	Sc 361.383	689381.9	689381.9	139.09 %		01:49:24
1	Y 371.029	614861.4	614861.4	148.55 %		01:49:24
1	Ag 328.068†	-4091.6	-3062.3	2.9289 ug/L	2.9289 ppb	01:49:30
1	As 188.979†	-51.8	-14.6	35.005 ug/L	35.005 ppb	01:49:50
1	B 249.677†	4698.2	3785.9	131.42 ug/L	131.42 ppb	01:49:30
1	Ba 233.527†	76468.5	54987.0	795.41 ug/L	795.41 ppb	01:49:30
1	Be 313.107†	-4139.8	914.2	7.1519 ug/L	7.1519 ppb	01:49:30
1	Cd 226.502†	457.6	531.8	2.5923 ug/L	2.5923 ppb	01:49:50
1	Co 228.616†	1254.0	959.3	28.239 ug/L	28.239 ppb	01:49:50
1	Cr 267.716†	3225.9	2243.1	59.680 ug/L	59.680 ppb	01:49:50
1	Cu 324.752†	21471.0	10214.0	57.344 ug/L	57.344 ppb	01:49:30
1	Mn 257.610†	3263938.8	2346284.2	4575.5 ug/L	4575.5 ppb	01:49:24
1	Mo 202.031†	-8.8	-11.9	5.7326 ug/L	5.7326 ppb	01:49:50
1	Ni 231.604†	1517.3	1014.0	49.163 ug/L	49.163 ppb	01:49:50
1	P 214.914†	2585.0	1644.3	1602.6 ug/L	1602.6 ppb	01:49:50
1	Pb 220.353†	665.5	540.5	134.10 ug/L	134.10 ppb	01:49:50
1	S 181.975 Axial†	851.0	576.5	1405.4 ug/L	1405.4 ppb	01:49:50
1	Sb 206.836†	60.7	5.2	-9.2385 ug/L	-9.2385 ppb	01:49:50
1	Se 196.026†	-333.2	-214.1	10.407 ug/L	10.407 ppb	01:49:50
1	Si 251.611†	836977.1	601180.1	33642 ug/L	33642 ppb	01:49:24
1	Sn 189.927†	-129.5	-103.8	-18.458 ug/L	-18.458 ppb	01:49:50
1	Ti 334.940†	1514854.5	1090582.7	2905.0 ug/L	2905.0 ppb	01:49:24
1	Tl 190.801†	-155.8	-85.0	-3.1909 ug/L	-3.1909 ppb	01:49:50
1	U 409.014†	-7428.0	-2600.7	-153.08 ug/L	-153.08 ppb	01:49:30
1	V 292.402†	13770.1	11486.8	135.70 ug/L	135.70 ppb	01:49:30
1	Zn 213.857†	36657.5	25703.9	441.76 ug/L	441.76 ppb	01:49:30
1	SiO2†	847183.8	608518.1	72742 ug/L	72742 ppb	01:50:58
2	Sc Radial	3911.1	3911.1	124 %		01:48:52
2	Y RADIAL	5006.8	5006.8	145.9 %		01:48:32
2	Al 396.153Radial†	56323.2	45362.2	59654 ug/L	59654 ppb	01:48:32
2	Ca 317.933Radial†	15580.9	12506.3	29518 ug/L	29518 ppb	01:48:32
2	Fe 238.204 Radial†	6612.2	5308.7	86809 ug/L	86809 ppb	01:48:32
2	K 766.490 Radial†	85444.2	65858.4	16508 ug/L	16508 ppb	01:48:32
2	Mg 279.077 IEC†	317.6	253.8	13310 ug/L	13310 ppb	01:48:52
2	Na 589.592 Radial†	929.6	1354.8	770.85 ug/L	770.85 ppb	01:48:32
2	Sr 421.552†	20302.7	16287.7	207.12 ug/L	207.12 ppb	01:48:32
2	Sc 361.383	699007.4	699007.4	141.03 %		01:49:56
2	Y 371.029	622054.5	622054.5	150.29 %		01:49:56
2	Ag 328.068†	-3988.5	-2948.6	2.6883 ug/L	2.6883 ppb	01:50:01
2	As 188.979†	-42.3	-7.4	39.790 ug/L	39.790 ppb	01:50:21
2	B 249.677†	4780.8	3797.9	132.51 ug/L	132.51 ppb	01:50:01
2	Ba 233.527†	76940.4	54564.5	789.20 ug/L	789.20 ppb	01:50:01
2	Be 313.107†	-4210.6	905.0	7.1677 ug/L	7.1677 ppb	01:50:01
2	Cd 226.502†	472.5	537.8	3.1261 ug/L	3.1261 ppb	01:50:21
2	Co 228.616†	1245.0	940.5	27.583 ug/L	27.583 ppb	01:50:21
2	Cr 267.716†	3226.9	2211.9	58.574 ug/L	58.574 ppb	01:50:21
2	Cu 324.752†	21825.9	10253.0	57.333 ug/L	57.333 ppb	01:50:01
2	Mn 257.610†	3316003.9	2350887.9	4584.1 ug/L	4584.1 ppb	01:49:56
2	Mo 202.031†	1.9	-4.2	6.5003 ug/L	6.5003 ppb	01:50:21
2	Ni 231.604†	1487.9	978.2	47.426 ug/L	47.426 ppb	01:50:21

2	P 214.914†	2556.6	1598.5	1558.6 ug/L	1558.6 ppb	01:50:21
2	Pb 220.353†	672.3	538.7	133.47 ug/L	133.47 ppb	01:50:21
2	S 181.975 Axial†	851.9	568.7	1386.8 ug/L	1386.8 ppb	01:50:21
2	Sb 206.836†	67.9	9.6	-6.4206 ug/L	-6.4206 ppb	01:50:21
2	Se 196.026†	-337.1	-213.6	0.1425 ug/L	0.1425 ppb	01:50:21
2	Si 251.611†	854051.3	605000.6	33856 ug/L	33856 ppb	01:49:56
2	Sn 189.927†	-130.1	-102.9	-18.880 ug/L	-18.880 ppb	01:50:21
2	Ti 334.940†	1541035.3	1094149.2	2914.4 ug/L	2914.4 ppb	01:49:56
2	Tl 190.801†	-147.8	-77.7	1.0931 ug/L	1.0931 ppb	01:50:21
2	U 409.014†	-7157.7	-2335.6	-138.10 ug/L	-138.10 ppb	01:50:01
2	V 292.402†	13952.9	11480.1	136.20 ug/L	136.20 ppb	01:50:01
2	Zn 213.857†	37001.0	25584.5	440.23 ug/L	440.23 ppb	01:50:01
2	SiO2†	839038.5	594354.9	71049 ug/L	71049 ppb	01:51:04
3	Sc Radial	3997.0	3997.0	127 %		01:49:17
3	Y RADIAL	5114.8	5114.8	149.0 %		01:48:57
3	Al 396.153Radial†	57929.0	45653.0	60037 ug/L	60037 ppb	01:48:57
3	Ca 317.933Radial†	16030.2	12590.8	29718 ug/L	29718 ppb	01:48:57
3	Fe 238.204 Radial†	6804.4	5345.8	87415 ug/L	87415 ppb	01:48:57
3	K 766.490 Radial†	87737.7	66187.4	16590 ug/L	16590 ppb	01:48:57
3	Mg 279.077 IEC†	328.1	256.6	13456 ug/L	13456 ppb	01:49:17
3	Na 589.592 Radial†	941.3	1347.9	766.97 ug/L	766.97 ppb	01:48:57
3	Sr 421.552†	20860.1	16375.7	208.24 ug/L	208.24 ppb	01:48:57
3	Sc 361.383	698893.0	698893.0	141.00 %		01:50:27
3	Y 371.029	622072.4	622072.4	150.29 %		01:50:27
3	Ag 328.068†	-3917.3	-2898.6	3.2913 ug/L	3.2913 ppb	01:50:32
3	As 188.979†	-36.6	-3.4	43.036 ug/L	43.036 ppb	01:50:52
3	B 249.677†	4594.4	3666.3	127.33 ug/L	127.33 ppb	01:50:32
3	Ba 233.527†	75992.4	53901.2	779.66 ug/L	779.66 ppb	01:50:32
3	Be 313.107†	-4107.3	977.8	7.2023 ug/L	7.2023 ppb	01:50:32
3	Cd 226.502†	475.0	539.7	3.1025 ug/L	3.1025 ppb	01:50:52
3	Co 228.616†	1235.3	933.8	27.330 ug/L	27.330 ppb	01:50:52
3	Cr 267.716†	3191.9	2187.4	58.099 ug/L	58.099 ppb	01:50:52
3	Cu 324.752†	21245.3	9843.8	55.273 ug/L	55.273 ppb	01:50:32
3	Mn 257.610†	3313661.9	2349611.8	4581.7 ug/L	4581.7 ppb	01:50:27
3	Mo 202.031†	-13.5	-15.2	5.0130 ug/L	5.0130 ppb	01:50:52
3	Ni 231.604†	1503.3	989.3	47.962 ug/L	47.962 ppb	01:50:52
3	P 214.914†	2554.7	1597.5	1557.5 ug/L	1557.5 ppb	01:50:52
3	Pb 220.353†	661.6	531.3	131.75 ug/L	131.75 ppb	01:50:52
3	S 181.975 Axial†	849.0	566.8	1381.9 ug/L	1381.9 ppb	01:50:52
3	Sb 206.836†	61.9	5.4	-9.0552 ug/L	-9.0552 ppb	01:50:52
3	Se 196.026†	-342.2	-217.2	-2.3611 ug/L	-2.3611 ppb	01:50:52
3	Si 251.611†	852483.5	603987.9	33799 ug/L	33799 ppb	01:50:27
3	Sn 189.927†	-133.6	-105.4	-19.610 ug/L	-19.610 ppb	01:50:52
3	Ti 334.940†	1538379.0	1092444.2	2909.8 ug/L	2909.8 ppb	01:50:27
3	Tl 190.801†	-155.5	-83.2	-2.0818 ug/L	-2.0818 ppb	01:50:52
3	U 409.014†	-7617.4	-2662.4	-156.09 ug/L	-156.09 ppb	01:50:32
3	V 292.402†	13648.0	11265.5	133.22 ug/L	133.22 ppb	01:50:32
3	Zn 213.857†	36383.5	25150.9	432.45 ug/L	432.45 ppb	01:50:32
3	SiO2†	826222.2	585363.0	69974 ug/L	69974 ppb	01:51:10

Mean Data: 248198001|959127|1

Analyte	Mean Corrected	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	695760.7	140.37 %		1.115				0.79%
Sc Radial	3928.6	125 %		2.0				1.57%
Y 371.029	619662.8	149.71 %		1.005				0.67%
Y RADIAL	5076.9	147.9 %		1.77				1.20%
Ag 328.068†	-2969.8	2.9695 ug/L		0.30353	2.9695 ppb		0.30353	10.22%
Al 396.153Radial†	46038.4	60544 ug/L		1224.1	60544 ppb		1224.1	2.02%
As 188.979†	-8.5	39.277 ug/L		4.0398	39.277 ppb		4.0398	10.29%
B 249.677†	3750.0	130.42 ug/L		2.732	130.42 ppb		2.732	2.09%
Ba 233.527†	54484.2	788.09 ug/L		7.934	788.09 ppb		7.934	1.01%
Be 313.107†	932.3	7.1740 ug/L		0.02579	7.1740 ppb		0.02579	0.36%
Ca 317.933Radial†	12704.4	29986 ug/L		644.7	29986 ppb		644.7	2.15%
Cd 226.502†	536.5	2.9403 ug/L		0.30157	2.9403 ppb		0.30157	10.26%
Co 228.616†	944.6	27.717 ug/L		0.4694	27.717 ppb		0.4694	1.69%
Cr 267.716†	2214.1	58.785 ug/L		0.8113	58.785 ppb		0.8113	1.38%
Cu 324.752†	10103.6	56.650 ug/L		1.1926	56.650 ppb		1.1926	2.11%
Fe 238.204 Radial†	5399.4	88292 ug/L		2065.2	88292 ppb		2065.2	2.34%
K 766.490 Radial†	66965.3	16785 ug/L		411.2	16785 ppb		411.2	2.45%

Mg 279.077 IEC†	257.2	13490 ug/L	198.3	13490 ppb	198.3	1.47%
Mn 257.610†	2348928.0	4580.4 ug/L	4.43	4580.4 ppb	4.43	0.10%
Mo 202.031†	-10.4	5.7486 ug/L	0.74381	5.7486 ppb	0.74381	12.94%
Na 589.592 Radial†	1379.4	784.88 ug/L	27.733	784.88 ppb	27.733	3.53%
Ni 231.604†	993.8	48.184 ug/L	0.8892	48.184 ppb	0.8892	1.85%
P 214.914†	1613.4	1572.9 ug/L	25.73	1572.9 ppb	25.73	1.64%
Pb 220.353†	536.8	133.11 ug/L	1.215	133.11 ppb	1.215	0.91%
S 181.975 Axial†	570.7	1391.4 ug/L	12.43	1391.4 ppb	12.43	0.89%
Sb 206.836†	6.7	-8.2381 ug/L	1.57667	-8.2381 ppb	1.57667	19.14%
Se 196.026†	-214.9	2.7295 ug/L	6.76581	2.7295 ppb	6.76581	247.87%
Si 251.611†	603389.5	33765 ug/L	110.8	33765 ppb	110.8	0.33%
Sn 189.927†	-104.0	-18.983 ug/L	0.5829	-18.983 ppb	0.5829	3.07%
Sr 421.552†	16568.9	210.70 ug/L	5.254	210.70 ppb	5.254	2.49%
Ti 334.940†	1092392.0	2909.7 ug/L	4.68	2909.7 ppb	4.68	0.16%
Tl 190.801†	-82.0	-1.3932 ug/L	2.22348	-1.3932 ppb	2.22348	159.60%
U 409.014†	-2532.9	-149.09 ug/L	9.638	-149.09 ppb	9.638	6.46%
V 292.402†	11410.8	135.04 ug/L	1.595	135.04 ppb	1.595	1.18%
Zn 213.857†	25479.8	438.15 ug/L	4.992	438.15 ppb	4.992	1.14%
SiO2†	596078.7	71255 ug/L	1395.4	71255 ppb	1395.4	1.96%

Sequence No.: 70
 Sample ID: 1202056919|959127|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 93
 Date Collected: 3/30/2010 01:53:22
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202056919|959127|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3985.8	3985.8	127 %		01:55:35
1	Y RADIAL	5025.7	5025.7	146.4 %		01:55:15
1	Al 396.153Radial†	54268.0	42892.7	56407 ug/L	56407 ppb	01:55:15
1	Ca 317.933Radial†	17929.1	14123.8	33336 ug/L	33336 ppb	01:55:15
1	Fe 238.204 Radial†	6237.3	4913.4	80346 ug/L	80346 ppb	01:55:15
1	K 766.490 Radial†	87779.2	66413.0	16645 ug/L	16645 ppb	01:55:15
1	Mg 279.077 IEC†	322.9	253.2	13286 ug/L	13286 ppb	01:55:35
1	Na 589.592 Radial†	927.4	1339.0	761.87 ug/L	761.87 ppb	01:55:15
1	Sr 421.552†	22168.1	17453.3	221.93 ug/L	221.93 ppb	01:55:15
1	Sc 361.383	699237.3	699237.3	141.07 %		01:56:34
1	Y 371.029	614579.7	614579.7	148.48 %		01:56:34
1	Ag 328.068†	-3285.1	-2449.1	4.7654 ug/L	4.7654 ppb	01:56:39
1	As 188.979†	-34.9	-2.1	41.020 ug/L	41.020 ppb	01:56:59
1	B 249.677†	4608.1	3674.4	128.80 ug/L	128.80 ppb	01:56:39
1	Ba 233.527†	77916.5	55238.5	798.71 ug/L	798.71 ppb	01:56:39
1	Be 313.107†	-3091.0	1699.6	7.2944 ug/L	7.2944 ppb	01:56:39
1	Cd 226.502†	459.6	528.6	3.5876 ug/L	3.5876 ppb	01:56:59
1	Co 228.616†	1167.9	885.6	25.994 ug/L	25.994 ppb	01:56:59
1	Cr 267.716†	3325.6	2281.1	59.419 ug/L	59.419 ppb	01:56:59
1	Cu 324.752†	22245.2	10545.2	58.490 ug/L	58.490 ppb	01:56:39
1	Mn 257.610†	3570254.8	2530339.4	4932.8 ug/L	4932.8 ppb	01:56:34
1	Mo 202.031†	-3.9	-8.4	5.4623 ug/L	5.4623 ppb	01:56:59
1	Ni 231.604†	1538.8	1013.9	49.159 ug/L	49.159 ppb	01:56:59
1	P 214.914†	2899.2	1840.8	1808.8 ug/L	1808.8 ppb	01:56:59
1	Pb 220.353†	747.2	591.7	145.77 ug/L	145.77 ppb	01:56:59
1	S 181.975 Axial†	797.9	530.3	1292.9 ug/L	1292.9 ppb	01:56:59
1	Sb 206.836†	66.6	8.7	-6.3820 ug/L	-6.3820 ppb	01:56:59
1	Se 196.026†	-311.2	-195.1	3.4464 ug/L	3.4464 ppb	01:56:59
1	Si 251.611†	869594.1	615818.9	34461 ug/L	34461 ppb	01:56:34
1	Sn 189.927†	-149.7	-116.8	-23.560 ug/L	-23.560 ppb	01:56:59
1	Ti 334.940†	1456704.9	1034012.6	2754.8 ug/L	2754.8 ppb	01:56:34
1	Tl 190.801†	-151.2	-80.1	0.0988 ug/L	0.0988 ppb	01:56:59
1	U 409.014†	-7063.0	-2266.8	-133.59 ug/L	-133.59 ppb	01:56:39
1	V 292.402†	13553.1	11193.4	133.51 ug/L	133.51 ppb	01:56:39
1	Zn 213.857†	31729.8	21839.4	374.79 ug/L	374.79 ppb	01:56:39
1	SiO2†	856546.6	606569.8	72509 ug/L	72509 ppb	01:58:09
2	Sc Radial	4202.1	4202.1	134 %		01:56:00
2	Y RADIAL	5089.9	5089.9	148.3 %		01:55:40
2	Al 396.153Radial†	54640.4	40967.9	53876 ug/L	53876 ppb	01:55:40
2	Ca 317.933Radial†	18028.1	13470.0	31793 ug/L	31793 ppb	01:55:40
2	Fe 238.204 Radial†	6282.3	4693.8	76755 ug/L	76755 ppb	01:55:40
2	K 766.490 Radial†	88308.8	63245.3	15851 ug/L	15851 ppb	01:55:40
2	Mg 279.077 IEC†	312.7	232.5	12194 ug/L	12194 ppb	01:56:00
2	Na 589.592 Radial†	905.9	1285.3	731.31 ug/L	731.31 ppb	01:55:40
2	Sr 421.552†	22236.1	16604.0	211.13 ug/L	211.13 ppb	01:55:40
2	Sc 361.383	693404.8	693404.8	139.90 %		01:57:06
2	Y 371.029	609671.7	609671.7	147.30 %		01:57:06
2	Ag 328.068†	-3327.4	-2498.9	3.2573 ug/L	3.2573 ppb	01:57:11
2	As 188.979†	-38.6	-5.0	37.987 ug/L	37.987 ppb	01:57:31
2	B 249.677†	4581.6	3682.9	129.71 ug/L	129.71 ppb	01:57:11
2	Ba 233.527†	76968.8	55025.7	795.53 ug/L	795.53 ppb	01:57:11
2	Be 313.107†	-3270.2	1553.1	7.2125 ug/L	7.2125 ppb	01:57:11
2	Cd 226.502†	465.4	535.5	4.1131 ug/L	4.1131 ppb	01:57:31
2	Co 228.616†	1140.4	872.9	25.572 ug/L	25.572 ppb	01:57:31
2	Cr 267.716†	3319.2	2296.3	59.376 ug/L	59.376 ppb	01:57:31
2	Cu 324.752†	22108.2	10579.9	58.478 ug/L	58.478 ppb	01:57:11
2	Mn 257.610†	3547465.2	2535336.6	4942.2 ug/L	4942.2 ppb	01:57:06
2	Mo 202.031†	4.4	-2.4	5.9975 ug/L	5.9975 ppb	01:57:31
2	Ni 231.604†	1512.8	1004.5	48.703 ug/L	48.703 ppb	01:57:31

2	P 214.914†	2879.0	1843.6	1813.9 ug/L	1813.9 ppb	01:57:31
2	Pb 220.353†	722.6	578.5	142.37 ug/L	142.37 ppb	01:57:31
2	S 181.975 Axial†	783.8	525.0	1280.2 ug/L	1280.2 ppb	01:57:31
2	Sb 206.836†	58.3	3.2	-9.6530 ug/L	-9.6530 ppb	01:57:31
2	Se 196.026†	-316.4	-200.7	-13.291 ug/L	-13.291 ppb	01:57:31
2	Si 251.611†	861676.2	615344.1	34434 ug/L	34434 ppb	01:57:06
2	Sn 189.927†	-148.1	-116.5	-24.218 ug/L	-24.218 ppb	01:57:31
2	Ti 334.940†	1446510.7	1035411.1	2758.4 ug/L	2758.4 ppb	01:57:06
2	Tl 190.801†	-144.0	-75.9	2.5972 ug/L	2.5972 ppb	01:57:31
2	U 409.014†	-7036.0	-2289.6	-134.43 ug/L	-134.43 ppb	01:57:11
2	V 292.402†	13282.9	11081.2	132.53 ug/L	132.53 ppb	01:57:11
2	Zn 213.857†	31250.8	21686.2	372.61 ug/L	372.61 ppb	01:57:11
2	SiO2†	864848.7	617611.3	73829 ug/L	73829 ppb	01:58:15
3	Sc Radial	4005.3	4005.3	127 %		01:56:25
3	Y RADIAL	5072.0	5072.0	147.8 %		01:56:05
3	Al 396.153Radial†	55184.5	43404.4	57080 ug/L	57080 ppb	01:56:05
3	Ca 317.933Radial†	18178.5	14250.9	33636 ug/L	33636 ppb	01:56:05
3	Fe 238.204 Radial†	6303.0	4941.1	80799 ug/L	80799 ppb	01:56:05
3	K 766.490 Radial†	88808.7	66885.2	16764 ug/L	16764 ppb	01:56:05
3	Mg 279.077 IEC†	327.6	255.7	13414 ug/L	13414 ppb	01:56:25
3	Na 589.592 Radial†	842.2	1268.6	721.83 ug/L	721.83 ppb	01:56:05
3	Sr 421.552†	22404.4	17553.9	223.21 ug/L	223.21 ppb	01:56:05
3	Sc 361.383	683755.2	683755.2	137.95 %		01:57:38
3	Y 371.029	601851.0	601851.0	145.41 %		01:57:38
3	Ag 328.068†	-3250.8	-2477.0	4.6819 ug/L	4.6819 ppb	01:57:43
3	As 188.979†	-38.6	-5.4	38.494 ug/L	38.494 ppb	01:58:03
3	B 249.677†	4573.8	3723.5	130.62 ug/L	130.62 ppb	01:57:43
3	Ba 233.527†	77193.6	55965.1	809.20 ug/L	809.20 ppb	01:57:43
3	Be 313.107†	-3243.3	1539.6	7.1685 ug/L	7.1685 ppb	01:57:43
3	Cd 226.502†	454.8	532.5	3.6288 ug/L	3.6288 ppb	01:58:03
3	Co 228.616†	1172.5	907.7	26.831 ug/L	26.831 ppb	01:58:03
3	Cr 267.716†	3342.4	2346.6	60.927 ug/L	60.927 ppb	01:58:03
3	Cu 324.752†	21978.1	10708.6	59.357 ug/L	59.357 ppb	01:57:43
3	Mn 257.610†	3473960.9	2517839.9	4908.5 ug/L	4908.5 ppb	01:57:38
3	Mo 202.031†	2.2	-4.0	6.1083 ug/L	6.1083 ppb	01:58:03
3	Ni 231.604†	1567.9	1059.7	51.380 ug/L	51.380 ppb	01:58:03
3	P 214.914†	2921.8	1903.7	1872.4 ug/L	1872.4 ppb	01:58:03
3	Pb 220.353†	730.5	591.6	145.88 ug/L	145.88 ppb	01:58:03
3	S 181.975 Axial†	784.0	533.0	1299.4 ug/L	1299.4 ppb	01:58:03
3	Sb 206.836†	54.6	1.1	-10.982 ug/L	-10.982 ppb	01:58:03
3	Se 196.026†	-321.1	-207.3	-9.3112 ug/L	-9.3112 ppb	01:58:03
3	Si 251.611†	842716.7	610292.8	34152 ug/L	34152 ppb	01:57:38
3	Sn 189.927†	-144.5	-115.4	-22.959 ug/L	-22.959 ppb	01:58:03
3	Ti 334.940†	1418239.0	1029509.3	2742.9 ug/L	2742.9 ppb	01:57:38
3	Tl 190.801†	-166.0	-93.3	-7.6658 ug/L	-7.6658 ppb	01:58:03
3	U 409.014†	-7079.8	-2392.3	-140.53 ug/L	-140.53 ppb	01:57:43
3	V 292.402†	13419.0	11313.8	135.05 ug/L	135.05 ppb	01:57:43
3	Zn 213.857†	31342.5	22067.9	378.76 ug/L	378.76 ppb	01:57:43
3	SiO2†	867044.2	627927.3	75062 ug/L	75062 ppb	01:58:21

Mean Data: 1202056919|959127|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	692132.4	139.64 %		1.578			1.13%
Sc Radial	4064.4	129 %		3.8			2.94%
Y 371.029	608700.8	147.06 %		1.551			1.05%
Y RADIAL	5062.6	147.5 %		0.97			0.65%
Ag 328.068†	-2475.0	4.2349 ug/L		0.84763	4.2349 ppb	0.84763	20.02%
Al 396.153Radial†	42421.7	55787 ug/L		1689.5	55787 ppb	1689.5	3.03%
As 188.979†	-4.1	39.167 ug/L		1.6245	39.167 ppb	1.6245	4.15%
B 249.677†	3693.6	129.71 ug/L		0.911	129.71 ppb	0.911	0.70%
Ba 233.527†	55409.8	801.15 ug/L		7.151	801.15 ppb	7.151	0.89%
Be 313.107†	1597.4	7.2251 ug/L		0.06388	7.2251 ppb	0.06388	0.88%
Ca 317.933Radial†	13948.2	32922 ug/L		989.1	32922 ppb	989.1	3.00%
Cd 226.502†	532.2	3.7765 ug/L		0.29221	3.7765 ppb	0.29221	7.74%
Co 228.616†	888.7	26.132 ug/L		0.6404	26.132 ppb	0.6404	2.45%
Cr 267.716†	2308.0	59.907 ug/L		0.8836	59.907 ppb	0.8836	1.47%
Cu 324.752†	10611.2	58.775 ug/L		0.5039	58.775 ppb	0.5039	0.86%
Fe 238.204 Radial†	4849.5	79300 ug/L		2215.4	79300 ppb	2215.4	2.79%
K 766.490 Radial†	65514.5	16420 ug/L		496.2	16420 ppb	496.2	3.02%

Mg 279.077 IEC†	247.1	12965 ug/L	670.5	12965 ppb	670.5	5.17%
Mn 257.610†	2527838.6	4927.8 ug/L	17.39	4927.8 ppb	17.39	0.35%
Mo 202.031†	-4.9	5.8560 ug/L	0.34546	5.8560 ppb	0.34546	5.90%
Na 589.592 Radial†	1297.6	738.33 ug/L	20.925	738.33 ppb	20.925	2.83%
Ni 231.604†	1026.1	49.748 ug/L	1.4323	49.748 ppb	1.4323	2.88%
P 214.914†	1862.7	1831.7 ug/L	35.33	1831.7 ppb	35.33	1.93%
Pb 220.353†	587.3	144.67 ug/L	1.992	144.67 ppb	1.992	1.38%
S 181.975 Axial†	529.4	1290.8 ug/L	9.72	1290.8 ppb	9.72	0.75%
Sb 206.836†	4.3	-9.0057 ug/L	2.36738	-9.0057 ppb	2.36738	26.29%
Se 196.026†	-201.0	-6.3854 ug/L	8.74409	-6.3854 ppb	8.74409	136.94%
Si 251.611†	613818.6	34349 ug/L	171.4	34349 ppb	171.4	0.50%
Sn 189.927†	-116.2	-23.579 ug/L	0.6296	-23.579 ppb	0.6296	2.67%
Sr 421.552†	17203.7	218.76 ug/L	6.635	218.76 ppb	6.635	3.03%
Ti 334.940†	1032977.7	2752.1 ug/L	8.14	2752.1 ppb	8.14	0.30%
Tl 190.801†	-83.1	-1.6566 ug/L	5.35192	-1.6566 ppb	5.35192	323.06%
U 409.014†	-2316.2	-136.19 ug/L	3.788	-136.19 ppb	3.788	2.78%
V 292.402†	11196.1	133.70 ug/L	1.268	133.70 ppb	1.268	0.95%
Zn 213.857†	21864.5	375.38 ug/L	3.115	375.38 ppb	3.115	0.83%
SiO2†	617369.5	73800 ug/L	1276.8	73800 ppb	1276.8	1.73%

Sequence No.: 71
 Sample ID: 1202056921|959127|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 94
 Date Collected: 3/30/2010 02:00:33
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202056921|959127|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4010.1	4010.1	128 %		02:02:46
1	Y RADIAL	4971.8	4971.8	144.9 %		02:02:46
1	Al 396.153Radial†	106402.6	83506.0	109790 ug/L	109790 ppb	02:02:26
1	Ca 317.933Radial†	25184.1	19725.9	46559 ug/L	46559 ppb	02:02:26
1	Fe 238.204 Radial†	7888.5	6178.1	101040 ug/L	101040 ppb	02:02:26
1	K 766.490 Radial†	144068.9	110123.6	27602 ug/L	27602 ppb	02:02:26
1	Mg 279.077 IEC†	554.8	433.5	22787 ug/L	22787 ppb	02:02:46
1	Na 589.592 Radial†	12271.0	10227.8	5819.5 ug/L	5819.5 ppb	02:02:26
1	Sr 421.552†	77442.9	60682.0	772.13 ug/L	772.13 ppb	02:02:26
1	Sc 361.383	697147.2	697147.2	140.65 %		02:03:49
1	Y 371.029	620879.3	620879.3	150.01 %		02:03:49
1	Ag 328.068†	78799.4	55903.7	497.06 ug/L	497.06 ppb	02:03:49
1	As 188.979†	824.7	608.9	531.04 ug/L	531.04 ppb	02:04:10
1	B 249.677†	24314.5	17694.9	665.72 ug/L	665.72 ppb	02:03:49
1	Ba 233.527†	143847.4	102279.1	1478.3 ug/L	1478.3 ppb	02:03:49
1	Be 313.107†	1145115.6	818035.1	513.42 ug/L	513.42 ppb	02:03:44
1	Cd 226.502†	29530.9	21198.5	466.40 ug/L	466.40 ppb	02:04:10
1	Co 228.616†	18790.0	13416.9	484.99 ug/L	484.99 ppb	02:04:10
1	Cr 267.716†	35392.7	25086.9	568.54 ug/L	568.54 ppb	02:03:49
1	Cu 324.752†	172869.6	117682.1	609.65 ug/L	609.65 ppb	02:03:49
1	Mn 257.610†	4751007.7	3377408.3	6583.3 ug/L	6583.3 ppb	02:03:44
1	Mo 202.031†	4507.6	3199.2	456.49 ug/L	456.49 ppb	02:04:10
1	Ni 231.604†	15464.8	10918.2	529.27 ug/L	529.27 ppb	02:04:10
1	P 214.914†	4453.7	2952.2	2830.0 ug/L	2830.0 ppb	02:04:10
1	Pb 220.353†	3482.9	2538.3	615.35 ug/L	615.35 ppb	02:04:10
1	S 181.975 Axial†	3830.1	2687.8	6586.0 ug/L	6586.0 ppb	02:04:10
1	Sb 206.836†	974.1	654.1	399.46 ug/L	399.46 ppb	02:04:10
1	Se 196.026†	206.3	172.2	499.44 ug/L	499.44 ppb	02:04:10
1	Si 251.611†	994164.1	706232.7	39515 ug/L	39515 ppb	02:03:44
1	Sn 189.927†	1755.9	1237.7	447.67 ug/L	447.67 ppb	02:04:10
1	Ti 334.940†	2107453.6	1499772.0	3994.8 ug/L	3994.8 ppb	02:03:44
1	Tl 190.801†	901.9	668.3	443.69 ug/L	443.69 ppb	02:04:10
1	U 409.014†	5563.4	6695.2	354.43 ug/L	354.43 ppb	02:03:49
1	V 292.402†	69470.9	50978.2	663.01 ug/L	663.01 ppb	02:03:49
1	Zn 213.857†	79598.6	55940.2	972.47 ug/L	972.47 ppb	02:03:49
1	SiO2†	947921.9	673355.3	80480 ug/L	80480 ppb	02:05:20
2	Sc Radial	4074.8	4074.8	130 %		02:03:11
2	Y RADIAL	5030.3	5030.3	146.6 %		02:03:11
2	Al 396.153Radial†	102160.2	78908.2	103750 ug/L	103750 ppb	02:02:51
2	Ca 317.933Radial†	24248.7	18690.6	44115 ug/L	44115 ppb	02:02:51
2	Fe 238.204 Radial†	7544.3	5814.3	95091 ug/L	95091 ppb	02:02:51
2	K 766.490 Radial†	138441.5	103988.3	26064 ug/L	26064 ppb	02:02:51
2	Mg 279.077 IEC†	553.4	425.5	22371 ug/L	22371 ppb	02:03:11
2	Na 589.592 Radial†	11644.3	9591.5	5457.5 ug/L	5457.5 ppb	02:02:51
2	Sr 421.552†	73868.4	56960.0	724.77 ug/L	724.77 ppb	02:02:51
2	Sc 361.383	672822.9	672822.9	135.75 %		02:04:21
2	Y 371.029	599846.3	599846.3	144.92 %		02:04:21
2	Ag 328.068†	76293.9	56083.4	496.76 ug/L	496.76 ppb	02:04:21
2	As 188.979†	806.0	616.3	535.91 ug/L	535.91 ppb	02:04:42
2	B 249.677†	23399.1	17645.5	664.73 ug/L	664.73 ppb	02:04:21
2	Ba 233.527†	139841.3	103025.3	1488.9 ug/L	1488.9 ppb	02:04:21
2	Be 313.107†	1122256.7	830628.9	521.33 ug/L	521.33 ppb	02:04:16
2	Cd 226.502†	29287.9	21778.5	480.06 ug/L	480.06 ppb	02:04:42
2	Co 228.616†	18651.1	13797.6	498.98 ug/L	498.98 ppb	02:04:42
2	Cr 267.716†	34377.2	25248.6	571.50 ug/L	571.50 ppb	02:04:21
2	Cu 324.752†	166483.0	117420.6	608.00 ug/L	608.00 ppb	02:04:21
2	Mn 257.610†	4657745.2	3430821.4	6686.7 ug/L	6686.7 ppb	02:04:16
2	Mo 202.031†	4474.8	3290.9	468.84 ug/L	468.84 ppb	02:04:42
2	Ni 231.604†	15287.6	11185.1	542.21 ug/L	542.21 ppb	02:04:42

2	P 214.914†	4378.0	3010.8	2893.2 ug/L	2893.2 ppb	02:04:42
2	Pb 220.353†	3484.7	2629.2	635.75 ug/L	635.75 ppb	02:04:42
2	S 181.975 Axial†	3807.1	2769.3	6787.5 ug/L	6787.5 ppb	02:04:42
2	Sb 206.836†	977.5	681.6	416.70 ug/L	416.70 ppb	02:04:42
2	Se 196.026†	194.2	168.6	477.88 ug/L	477.88 ppb	02:04:42
2	Si 251.611†	973481.9	716550.0	40092 ug/L	40092 ppb	02:04:16
2	Sn 189.927†	1729.6	1263.5	455.32 ug/L	455.32 ppb	02:04:42
2	Ti 334.940†	2065059.0	1522709.8	4055.5 ug/L	4055.5 ppb	02:04:16
2	Tl 190.801†	894.3	685.9	454.70 ug/L	454.70 ppb	02:04:42
2	U 409.014†	5129.7	6518.7	345.42 ug/L	345.42 ppb	02:04:21
2	V 292.402†	67221.5	51106.8	665.67 ug/L	665.67 ppb	02:04:21
2	Zn 213.857†	76849.9	55961.2	973.65 ug/L	973.65 ppb	02:04:21
2	SiO2†	959086.2	705944.6	84375 ug/L	84375 ppb	02:05:26
3	Sc Radial	4075.5	4075.5	130 %		02:03:36
3	Y RADIAL	5037.9	5037.9	146.8 %		02:03:36
3	Al 396.153Radial†	104650.8	80816.7	106260 ug/L	106260 ppb	02:03:16
3	Ca 317.933Radial†	24747.8	19072.7	45017 ug/L	45017 ppb	02:03:16
3	Fe 238.204 Radial†	7734.5	5960.0	97475 ug/L	97475 ppb	02:03:16
3	K 766.490 Radial†	141827.4	106582.9	26714 ug/L	26714 ppb	02:03:16
3	Mg 279.077 IEC†	556.2	427.6	22481 ug/L	22481 ppb	02:03:36
3	Na 589.592 Radial†	11965.8	9838.1	5597.8 ug/L	5597.8 ppb	02:03:16
3	Sr 421.552†	75766.3	58414.8	743.28 ug/L	743.28 ppb	02:03:16
3	Sc 361.383	669718.8	669718.8	135.12 %		02:04:53
3	Y 371.029	598364.2	598364.2	144.57 %		02:04:53
3	Ag 328.068†	76062.6	56172.7	498.24 ug/L	498.24 ppb	02:04:53
3	As 188.979†	815.0	625.8	543.35 ug/L	543.35 ppb	02:05:14
3	B 249.677†	23365.7	17700.7	666.47 ug/L	666.47 ppb	02:04:53
3	Ba 233.527†	139778.0	103455.9	1495.2 ug/L	1495.2 ppb	02:04:53
3	Be 313.107†	1101794.2	819316.7	514.23 ug/L	514.23 ppb	02:04:48
3	Cd 226.502†	29250.3	21850.6	481.43 ug/L	481.43 ppb	02:05:14
3	Co 228.616†	18653.2	13862.8	501.45 ug/L	501.45 ppb	02:05:14
3	Cr 267.716†	34436.5	25409.9	575.34 ug/L	575.34 ppb	02:04:53
3	Cu 324.752†	165779.2	117468.2	608.37 ug/L	608.37 ppb	02:04:53
3	Mn 257.610†	4586438.7	3393952.0	6615.1 ug/L	6615.1 ppb	02:04:48
3	Mo 202.031†	4450.1	3287.9	468.62 ug/L	468.62 ppb	02:05:14
3	Ni 231.604†	15310.9	11254.6	545.58 ug/L	545.58 ppb	02:05:14
3	P 214.914†	4392.2	3036.3	2917.8 ug/L	2917.8 ppb	02:05:14
3	Pb 220.353†	3460.8	2623.4	634.80 ug/L	634.80 ppb	02:05:14
3	S 181.975 Axial†	3787.7	2767.9	6783.5 ug/L	6783.5 ppb	02:05:14
3	Sb 206.836†	970.0	679.4	415.52 ug/L	415.52 ppb	02:05:14
3	Se 196.026†	201.7	174.8	492.07 ug/L	492.07 ppb	02:05:14
3	Si 251.611†	954227.1	705623.7	39481 ug/L	39481 ppb	02:04:48
3	Sn 189.927†	1742.4	1278.9	461.06 ug/L	461.06 ppb	02:05:14
3	Ti 334.940†	2028692.7	1502846.6	4002.8 ug/L	4002.8 ppb	02:04:48
3	Tl 190.801†	896.9	690.8	456.71 ug/L	456.71 ppb	02:05:14
3	U 409.014†	4976.8	6423.1	339.89 ug/L	339.89 ppb	02:04:53
3	V 292.402†	67187.0	51310.8	668.06 ug/L	668.06 ppb	02:04:53
3	Zn 213.857†	76764.8	56160.7	976.81 ug/L	976.81 ppb	02:04:53
3	SiO2†	946380.8	699816.3	83643 ug/L	83643 ppb	02:05:32

Mean Data: 1202056921|959127|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	679896.3	137.17 %	3.030			2.21%
Sc Radial	4053.5	129 %	1.2			0.93%
Y 371.029	606363.2	146.50 %	3.043			2.08%
Y RADIAL	5013.3	146.1 %	1.05			0.72%
Ag 328.068†	56053.2	497.35 ug/L	0.783	497.35 ppb	0.783	0.16%
Al 396.153Radial†	81077.0	106600 ug/L	3038.1	106600 ppb	3038.1	2.85%
As 188.979†	617.0	536.77 ug/L	6.202	536.77 ppb	6.202	1.16%
B 249.677†	17680.3	665.64 ug/L	0.872	665.64 ppb	0.872	0.13%
Ba 233.527†	102920.1	1487.5 ug/L	8.52	1487.5 ppb	8.52	0.57%
Be 313.107†	822660.2	516.33 ug/L	4.348	516.33 ppb	4.348	0.84%
Ca 317.933Radial†	19163.0	45230 ug/L	1235.6	45230 ppb	1235.6	2.73%
Cd 226.502†	21609.2	475.96 ug/L	8.311	475.96 ppb	8.311	1.75%
Co 228.616†	13692.4	495.14 ug/L	8.876	495.14 ppb	8.876	1.79%
Cr 267.716†	25248.5	571.79 ug/L	3.412	571.79 ppb	3.412	0.60%
Cu 324.752†	117523.6	608.67 ug/L	0.867	608.67 ppb	0.867	0.14%
Fe 238.204 Radial†	5984.1	97868 ug/L	2993.6	97868 ppb	2993.6	3.06%
K 766.490 Radial†	106898.3	26793 ug/L	772.1	26793 ppb	772.1	2.88%

Mg 279.077 IEC†	428.9	22546 ug/L	215.4	22546 ppb	215.4	0.96%
Mn 257.610†	3400727.3	6628.4 ug/L	52.95	6628.4 ppb	52.95	0.80%
Mo 202.031†	3259.3	464.65 ug/L	7.067	464.65 ppb	7.067	1.52%
Na 589.592 Radial†	9885.8	5624.9 ug/L	182.55	5624.9 ppb	182.55	3.25%
Ni 231.604†	11119.3	539.02 ug/L	8.609	539.02 ppb	8.609	1.60%
P 214.914†	2999.8	2880.3 ug/L	45.31	2880.3 ppb	45.31	1.57%
Pb 220.353†	2597.0	628.64 ug/L	11.514	628.64 ppb	11.514	1.83%
S 181.975 Axial†	2741.7	6719.0 ug/L	115.19	6719.0 ppb	115.19	1.71%
Sb 206.836†	671.7	410.56 ug/L	9.627	410.56 ppb	9.627	2.34%
Se 196.026†	171.8	489.79 ug/L	10.959	489.79 ppb	10.959	2.24%
Si 251.611†	709468.8	39696 ug/L	343.6	39696 ppb	343.6	0.87%
Sn 189.927†	1260.0	454.68 ug/L	6.721	454.68 ppb	6.721	1.48%
Sr 421.552†	58685.6	746.73 ug/L	23.869	746.73 ppb	23.869	3.20%
Ti 334.940†	1508442.8	4017.7 ug/L	33.00	4017.7 ppb	33.00	0.82%
Tl 190.801†	681.7	451.70 ug/L	7.012	451.70 ppb	7.012	1.55%
U 409.014†	6545.7	346.58 ug/L	7.336	346.58 ppb	7.336	2.12%
V 292.402†	51131.9	665.58 ug/L	2.526	665.58 ppb	2.526	0.38%
Zn 213.857†	56020.7	974.31 ug/L	2.243	974.31 ppb	2.243	0.23%
SiO2†	693038.7	82833 ug/L	2070.2	82833 ppb	2070.2	2.50%

Sequence No.: 72

Sample ID: 1202056922|959127|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 95

Date Collected: 3/30/2010 02:07:42

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056922|959127|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc Radial	4092.3	4092.3	130 %			02:09:56
1	Y RADIAL	5010.6	5010.6	146.0 %			02:09:56
1	Al 396.153Radial†	98282.4	75592.3	99387 ug/L		99387 ppb	02:09:36
1	Ca 317.933Radial†	22216.9	17049.8	40242 ug/L		40242 ppb	02:09:36
1	Fe 238.204 Radial†	7346.5	5637.5	92199 ug/L		92199 ppb	02:09:36
1	K 766.490 Radial†	133227.5	99526.3	24946 ug/L		24946 ppb	02:09:36
1	Mg 279.077 IEC†	519.1	397.3	20887 ug/L		20887 ppb	02:09:56
1	Na 589.592 Radial†	11937.9	9778.7	5564.0 ug/L		5564.0 ppb	02:09:36
1	Sr 421.552†	72947.2	56008.7	712.69 ug/L		712.69 ppb	02:09:36
1	Sc 361.383	670854.1	670854.1	135.35 %			02:11:00
1	Y 371.029	591940.1	591940.1	143.01 %			02:11:00
1	Ag 328.068†	75518.8	55675.6	492.44 ug/L		492.44 ppb	02:11:00
1	As 188.979†	786.1	603.4	523.40 ug/L		523.40 ppb	02:11:20
1	B 249.677†	22382.8	16945.2	638.18 ug/L		638.18 ppb	02:11:00
1	Ba 233.527†	126510.5	93478.3	1351.2 ug/L		1351.2 ppb	02:11:00
1	Be 313.107†	1107713.1	822309.9	515.73 ug/L		515.73 ppb	02:10:54
1	Cd 226.502†	28785.3	21470.5	473.43 ug/L		473.43 ppb	02:11:20
1	Co 228.616†	18202.9	13506.7	488.69 ug/L		488.69 ppb	02:11:20
1	Cr 267.716†	33646.0	24782.6	560.81 ug/L		560.81 ppb	02:11:00
1	Cu 324.752†	161860.0	114364.9	592.14 ug/L		592.14 ppb	02:11:00
1	Mn 257.610†	4067185.1	3004564.0	5856.7 ug/L		5856.7 ppb	02:10:54
1	Mo 202.031†	4410.5	3253.1	463.28 ug/L		463.28 ppb	02:11:20
1	Ni 231.604†	14843.2	10889.8	527.90 ug/L		527.90 ppb	02:11:20
1	P 214.914†	3914.7	2678.0	2559.4 ug/L		2559.4 ppb	02:11:20
1	Pb 220.353†	3312.0	2509.1	606.67 ug/L		606.67 ppb	02:11:20
1	S 181.975 Axial†	3558.2	2593.6	6356.5 ug/L		6356.5 ppb	02:11:20
1	Sb 206.836†	984.4	688.8	421.69 ug/L		421.69 ppb	02:11:20
1	Se 196.026†	212.3	182.3	484.87 ug/L		484.87 ppb	02:11:20
1	Si 251.611†	890847.3	657601.2	36793 ug/L		36793 ppb	02:10:54
1	Sn 189.927†	1713.0	1255.0	451.19 ug/L		451.19 ppb	02:11:20
1	Ti 334.940†	1953503.1	1444752.9	3847.7 ug/L		3847.7 ppb	02:10:54
1	Tl 190.801†	906.1	696.5	455.18 ug/L		455.18 ppb	02:11:20
1	U 409.014†	5444.6	6762.5	359.14 ug/L		359.14 ppb	02:11:00
1	V 292.402†	64879.7	49521.9	645.26 ug/L		645.26 ppb	02:11:00
1	Zn 213.857†	73106.2	53361.4	928.11 ug/L		928.11 ppb	02:11:00
1	SiO2†	891609.4	658163.8	78664 ug/L		78664 ppb	02:12:30
2	Sc Radial	4029.8	4029.8	128 %			02:10:21
2	Y RADIAL	4925.6	4925.6	143.5 %			02:10:21
2	Al 396.153Radial†	97305.7	76001.9	99926 ug/L		99926 ppb	02:10:01
2	Ca 317.933Radial†	22033.2	17171.3	40529 ug/L		40529 ppb	02:10:01
2	Fe 238.204 Radial†	7286.3	5678.1	92864 ug/L		92864 ppb	02:10:01
2	K 766.490 Radial†	131836.3	100029.1	25072 ug/L		25072 ppb	02:10:01
2	Mg 279.077 IEC†	512.3	398.2	20931 ug/L		20931 ppb	02:10:21
2	Na 589.592 Radial†	11655.4	9700.6	5519.6 ug/L		5519.6 ppb	02:10:01
2	Sr 421.552†	71961.7	56109.5	713.97 ug/L		713.97 ppb	02:10:01
2	Sc 361.383	677186.4	677186.4	136.63 %			02:11:32
2	Y 371.029	596863.4	596863.4	144.20 %			02:11:32
2	Ag 328.068†	76199.8	55652.3	492.45 ug/L		492.45 ppb	02:11:32
2	As 188.979†	792.2	602.4	522.25 ug/L		522.25 ppb	02:11:52
2	B 249.677†	22589.5	16941.8	637.94 ug/L		637.94 ppb	02:11:32
2	Ba 233.527†	128012.9	93704.0	1354.5 ug/L		1354.5 ppb	02:11:32
2	Be 313.107†	1101133.8	809841.4	507.90 ug/L		507.90 ppb	02:11:26
2	Cd 226.502†	29106.4	21506.6	474.17 ug/L		474.17 ppb	02:11:52
2	Co 228.616†	18409.7	13532.3	489.75 ug/L		489.75 ppb	02:11:52
2	Cr 267.716†	34066.7	24858.1	562.56 ug/L		562.56 ppb	02:11:32
2	Cu 324.752†	163039.3	114109.8	590.86 ug/L		590.86 ppb	02:11:32
2	Mn 257.610†	4037774.4	2954938.2	5760.2 ug/L		5760.2 ppb	02:11:26
2	Mo 202.031†	4451.9	3252.9	463.30 ug/L		463.30 ppb	02:11:52
2	Ni 231.604†	14982.3	10889.1	527.86 ug/L		527.86 ppb	02:11:52

2	P 214.914†	3960.1	2684.2	2565.4 ug/L	2565.4 ppb	02:11:52
2	Pb 220.353†	3349.0	2513.3	607.74 ug/L	607.74 ppb	02:11:52
2	S 181.975 Axial†	3618.2	2613.0	6404.0 ug/L	6404.0 ppb	02:11:52
2	Sb 206.836†	996.7	691.0	423.14 ug/L	423.14 ppb	02:11:52
2	Se 196.026†	226.5	191.3	497.12 ug/L	497.12 ppb	02:11:52
2	Si 251.611†	883411.9	646004.4	36144 ug/L	36144 ppb	02:11:26
2	Sn 189.927†	1717.3	1246.3	448.34 ug/L	448.34 ppb	02:11:52
2	Ti 334.940†	1940846.9	1421993.1	3787.2 ug/L	3787.2 ppb	02:11:26
2	Tl 190.801†	916.0	697.5	454.76 ug/L	454.76 ppb	02:11:52
2	U 409.014†	5436.6	6719.0	356.68 ug/L	356.68 ppb	02:11:32
2	V 292.402†	65628.7	49621.9	646.55 ug/L	646.55 ppb	02:11:32
2	Zn 213.857†	73893.6	53432.7	929.27 ug/L	929.27 ppb	02:11:32
2	SiO2†	886052.9	647936.9	77441 ug/L	77441 ppb	02:12:36
3	Sc Radial	4164.7	4164.7	132 %		02:10:46
3	Y RADIAL	5077.7	5077.7	147.9 %		02:10:46
3	Al 396.153Radial†	98655.2	74562.5	98033 ug/L	98033 ppb	02:10:26
3	Ca 317.933Radial†	22272.7	16795.5	39642 ug/L	39642 ppb	02:10:26
3	Fe 238.204 Radial†	7335.1	5530.9	90456 ug/L	90456 ppb	02:10:26
3	K 766.490 Radial†	133303.1	97805.9	24515 ug/L	24515 ppb	02:10:26
3	Mg 279.077 IEC†	517.3	389.0	20450 ug/L	20450 ppb	02:10:46
3	Na 589.592 Radial†	11938.1	9619.6	5473.5 ug/L	5473.5 ppb	02:10:26
3	Sr 421.552†	72956.3	55042.4	700.39 ug/L	700.39 ppb	02:10:26
3	Sc 361.383	676706.8	676706.8	136.53 %		02:12:04
3	Y 371.029	597084.1	597084.1	144.26 %		02:12:04
3	Ag 328.068†	75954.5	55512.1	490.54 ug/L	490.54 ppb	02:12:04
3	As 188.979†	795.1	605.0	523.67 ug/L	523.67 ppb	02:12:24
3	B 249.677†	22553.4	16927.1	637.77 ug/L	637.77 ppb	02:12:04
3	Ba 233.527†	127543.8	93426.8	1350.4 ug/L	1350.4 ppb	02:12:04
3	Be 313.107†	1098368.0	808386.7	507.00 ug/L	507.00 ppb	02:11:58
3	Cd 226.502†	28964.5	21417.8	472.42 ug/L	472.42 ppb	02:12:24
3	Co 228.616†	18295.1	13457.9	487.04 ug/L	487.04 ppb	02:12:24
3	Cr 267.716†	33989.8	24819.5	561.44 ug/L	561.44 ppb	02:12:04
3	Cu 324.752†	162613.9	113882.8	589.57 ug/L	589.57 ppb	02:12:04
3	Mn 257.610†	4034256.5	2954456.1	5759.0 ug/L	5759.0 ppb	02:11:58
3	Mo 202.031†	4426.3	3236.4	460.80 ug/L	460.80 ppb	02:12:24
3	Ni 231.604†	14930.5	10858.9	526.40 ug/L	526.40 ppb	02:12:24
3	P 214.914†	3942.3	2673.3	2556.1 ug/L	2556.1 ppb	02:12:24
3	Pb 220.353†	3349.4	2515.3	607.96 ug/L	607.96 ppb	02:12:24
3	S 181.975 Axial†	3597.7	2599.8	6371.9 ug/L	6371.9 ppb	02:12:24
3	Sb 206.836†	998.3	692.7	424.28 ug/L	424.28 ppb	02:12:24
3	Se 196.026†	212.8	181.4	478.77 ug/L	478.77 ppb	02:12:24
3	Si 251.611†	882692.4	645935.6	36141 ug/L	36141 ppb	02:11:58
3	Sn 189.927†	1730.7	1257.0	451.56 ug/L	451.56 ppb	02:12:24
3	Ti 334.940†	1939064.4	1421694.3	3786.3 ug/L	3786.3 ppb	02:11:58
3	Tl 190.801†	909.5	693.2	452.33 ug/L	452.33 ppb	02:12:24
3	U 409.014†	5629.8	6863.3	364.87 ug/L	364.87 ppb	02:12:04
3	V 292.402†	65390.7	49481.6	645.02 ug/L	645.02 ppb	02:12:04
3	Zn 213.857†	73591.1	53249.4	926.39 ug/L	926.39 ppb	02:12:04
3	SiO2†	882926.2	646106.5	77222 ug/L	77222 ppb	02:12:42

Mean Data: 1202056922|959127|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	674915.8	136.17 %		0.711			0.52%
Sc Radial	4095.6	130 %		2.1			1.65%
Y 371.029	595295.9	143.83 %		0.703			0.49%
Y RADIAL	5004.6	145.8 %		2.22			1.52%
Ag 328.068†	55613.4	491.81 ug/L		1.098	491.81 ppb	1.098	0.22%
Al 396.153Radial†	75385.6	99115 ug/L		975.3	99115 ppb	975.3	0.98%
As 188.979†	603.6	523.11 ug/L		0.754	523.11 ppb	0.754	0.14%
B 249.677†	16938.1	637.97 ug/L		0.207	637.97 ppb	0.207	0.03%
Ba 233.527†	93536.4	1352.0 ug/L		2.16	1352.0 ppb	2.16	0.16%
Be 313.107†	813512.7	510.21 ug/L		4.798	510.21 ppb	4.798	0.94%
Ca 317.933Radial†	17005.5	40138 ug/L		452.6	40138 ppb	452.6	1.13%
Cd 226.502†	21465.0	473.34 ug/L		0.876	473.34 ppb	0.876	0.19%
Co 228.616†	13499.0	488.49 ug/L		1.363	488.49 ppb	1.363	0.28%
Cr 267.716†	24820.1	561.61 ug/L		0.886	561.61 ppb	0.886	0.16%
Cu 324.752†	114119.1	590.86 ug/L		1.286	590.86 ppb	1.286	0.22%
Fe 238.204 Radial†	5615.5	91840 ug/L		1243.4	91840 ppb	1243.4	1.35%
K 766.490 Radial†	99120.4	24845 ug/L		292.3	24845 ppb	292.3	1.18%

Mg 279.077 IEC†	394.9	20756 ug/L	265.9	20756 ppb	265.9	1.28%
Mn 257.610†	2971319.4	5792.0 ug/L	56.07	5792.0 ppb	56.07	0.97%
Mo 202.031†	3247.4	462.46 ug/L	1.436	462.46 ppb	1.436	0.31%
Na 589.592 Radial†	9699.6	5519.0 ug/L	45.27	5519.0 ppb	45.27	0.82%
Ni 231.604†	10879.3	527.38 ug/L	0.855	527.38 ppb	0.855	0.16%
P 214.914†	2678.5	2560.3 ug/L	4.75	2560.3 ppb	4.75	0.19%
Pb 220.353†	2512.6	607.46 ug/L	0.690	607.46 ppb	0.690	0.11%
S 181.975 Axial†	2602.1	6377.4 ug/L	24.24	6377.4 ppb	24.24	0.38%
Sb 206.836†	690.8	423.04 ug/L	1.298	423.04 ppb	1.298	0.31%
Se 196.026†	185.0	486.92 ug/L	9.344	486.92 ppb	9.344	1.92%
Si 251.611†	649847.1	36359 ug/L	375.8	36359 ppb	375.8	1.03%
Sn 189.927†	1252.8	450.36 ug/L	1.764	450.36 ppb	1.764	0.39%
Sr 421.552†	55720.2	709.02 ug/L	7.496	709.02 ppb	7.496	1.06%
Ti 334.940†	1429480.1	3807.1 ug/L	35.20	3807.1 ppb	35.20	0.92%
Tl 190.801†	695.7	454.09 ug/L	1.541	454.09 ppb	1.541	0.34%
U 409.014†	6781.6	360.23 ug/L	4.202	360.23 ppb	4.202	1.17%
V 292.402†	49541.8	645.61 ug/L	0.823	645.61 ppb	0.823	0.13%
Zn 213.857†	53347.8	927.92 ug/L	1.448	927.92 ppb	1.448	0.16%
SiO2†	650735.7	77776 ug/L	776.7	77776 ppb	776.7	1.00%

Sequence No.: 73
 Sample ID: 1202056920|959127|5
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 96
 Date Collected: 3/30/2010 02:14:53
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202056920|959127|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3967.2	3967.2	126 %		02:17:06
1	Y RADIAL	4562.6	4562.6	132.9 %		02:16:46
1	Al 396.153Radial†	11189.5	8955.2	11777 ug/L	11777 ppb	02:16:46
1	Ca 317.933Radial†	3166.9	2491.6	5880.8 ug/L	5880.8 ppb	02:17:06
1	Fe 238.204 Radial†	1394.7	1098.9	17969 ug/L	17969 ppb	02:17:06
1	K 766.490 Radial†	19451.1	12590.1	3155.6 ug/L	3155.6 ppb	02:16:46
1	Mg 279.077 IEC†	66.9	51.6	2704.1 ug/L	2704.1 ppb	02:17:06
1	Na 589.592 Radial†	-354.4	326.6	185.85 ug/L	185.85 ppb	02:16:46
1	Sr 421.552†	4113.4	3227.5	41.043 ug/L	41.043 ppb	02:16:46
1	Sc 361.383	697541.4	697541.4	140.73 %		02:18:03
1	Y 371.029	559937.5	559937.5	135.28 %		02:18:03
1	Ag 328.068†	-652.0	-583.7	0.7464 ug/L	0.7464 ppb	02:18:03
1	As 188.979†	-22.1	6.9	14.532 ug/L	14.532 ppb	02:18:23
1	B 249.677†	600.0	834.3	29.289 ug/L	29.289 ppb	02:18:23
1	Ba 233.527†	15309.1	10885.9	157.48 ug/L	157.48 ppb	02:18:03
1	Be 313.107†	-4252.1	869.2	1.8368 ug/L	1.8368 ppb	02:18:03
1	Cd 226.502†	-75.5	149.1	1.5067 ug/L	1.5067 ppb	02:18:23
1	Co 228.616†	204.2	202.9	6.0718 ug/L	6.0718 ppb	02:18:23
1	Cr 267.716†	734.2	445.5	11.832 ug/L	11.832 ppb	02:18:23
1	Cu 324.752†	8323.8	691.4	4.4880 ug/L	4.4880 ppb	02:18:03
1	Mn 257.610†	672948.1	477754.4	931.63 ug/L	931.63 ppb	02:18:03
1	Mo 202.031†	17.9	7.2	2.4667 ug/L	2.4667 ppb	02:18:23
1	Ni 231.604†	380.7	193.7	9.3896 ug/L	9.3896 ppb	02:18:23
1	P 214.914†	686.5	273.5	265.57 ug/L	265.57 ppb	02:18:23
1	Pb 220.353†	85.3	122.7	30.103 ug/L	30.103 ppb	02:18:23
1	S 181.975 Axial†	197.2	104.8	255.36 ug/L	255.36 ppb	02:18:23
1	Sb 206.836†	39.7	-10.3	-8.7788 ug/L	-8.7788 ppb	02:18:23
1	Se 196.026†	-83.5	-33.8	11.875 ug/L	11.875 ppb	02:18:23
1	Si 251.611†	169238.2	119666.0	6696.4 ug/L	6696.4 ppb	02:18:03
1	Sn 189.927†	-40.6	-39.5	-10.221 ug/L	-10.221 ppb	02:18:23
1	Ti 334.940†	301027.7	215334.0	573.54 ug/L	573.54 ppb	02:18:03
1	Tl 190.801†	-50.0	-8.5	4.2376 ug/L	4.2376 ppb	02:18:23
1	U 409.014†	-3189.3	473.6	23.904 ug/L	23.904 ppb	02:18:03
1	V 292.402†	1344.4	2541.7	30.527 ug/L	30.527 ppb	02:18:23
1	Zn 213.857†	7764.2	4864.9	83.497 ug/L	83.497 ppb	02:18:23
1	SiO2†	168803.0	119356.3	14268 ug/L	14268 ppb	02:19:19
2	Sc Radial	3898.8	3898.8	124 %		02:17:31
2	Y RADIAL	4589.2	4589.2	133.7 %		02:17:11
2	Al 396.153Radial†	11383.7	9267.2	12187 ug/L	12187 ppb	02:17:11
2	Ca 317.933Radial†	3077.7	2463.7	5814.9 ug/L	5814.9 ppb	02:17:31
2	Fe 238.204 Radial†	1351.0	1083.0	17710 ug/L	17710 ppb	02:17:31
2	K 766.490 Radial†	19635.6	13009.1	3260.8 ug/L	3260.8 ppb	02:17:11
2	Mg 279.077 IEC†	65.0	50.9	2670.3 ug/L	2670.3 ppb	02:17:31
2	Na 589.592 Radial†	-414.2	273.5	155.61 ug/L	155.61 ppb	02:17:11
2	Sr 421.552†	4125.6	3294.5	41.896 ug/L	41.896 ppb	02:17:11
2	Sc 361.383	658942.2	658942.2	132.94 %		02:18:28
2	Y 371.029	530805.3	530805.3	128.24 %		02:18:28
2	Ag 328.068†	-623.8	-589.7	0.6321 ug/L	0.6321 ppb	02:18:28
2	As 188.979†	-26.4	2.8	11.573 ug/L	11.573 ppb	02:18:48
2	B 249.677†	620.4	874.6	30.888 ug/L	30.888 ppb	02:18:48
2	Ba 233.527†	15282.4	11503.0	166.36 ug/L	166.36 ppb	02:18:28
2	Be 313.107†	-4345.4	622.1	1.7637 ug/L	1.7637 ppb	02:18:28
2	Cd 226.502†	-65.2	153.8	1.6356 ug/L	1.6356 ppb	02:18:48
2	Co 228.616†	204.9	211.9	6.3370 ug/L	6.3370 ppb	02:18:48
2	Cr 267.716†	732.4	474.6	12.458 ug/L	12.458 ppb	02:18:48
2	Cu 324.752†	8379.7	1079.9	6.4769 ug/L	6.4769 ppb	02:18:28
2	Mn 257.610†	672969.5	505781.0	986.16 ug/L	986.16 ppb	02:18:28
2	Mo 202.031†	11.0	2.7	1.8171 ug/L	1.8171 ppb	02:18:48
2	Ni 231.604†	369.8	201.3	9.7581 ug/L	9.7581 ppb	02:18:48

2	P 214.914†	669.8	289.5	281.77 ug/L	281.77 ppb	02:18:48
2	Pb 220.353†	89.0	129.0	31.718 ug/L	31.718 ppb	02:18:48
2	S 181.975 Axial†	197.4	113.2	275.86 ug/L	275.86 ppb	02:18:48
2	Sb 206.836†	44.2	-5.2	-5.8286 ug/L	-5.8286 ppb	02:18:48
2	Se 196.026†	-73.1	-29.5	16.298 ug/L	16.298 ppb	02:18:48
2	Si 251.611†	169381.5	126818.1	7096.7 ug/L	7096.7 ppb	02:18:28
2	Sn 189.927†	-39.6	-40.5	-10.591 ug/L	-10.591 ppb	02:18:48
2	Ti 334.940†	301837.2	228472.7	608.50 ug/L	608.50 ppb	02:18:28
2	Tl 190.801†	-56.0	-15.1	1.0069 ug/L	1.0069 ppb	02:18:48
2	U 409.014†	-3317.3	244.6	11.370 ug/L	11.370 ppb	02:18:28
2	V 292.402†	1375.1	2620.8	31.541 ug/L	31.541 ppb	02:18:48
2	Zn 213.857†	7756.7	5182.4	89.160 ug/L	89.160 ppb	02:18:48
2	SiO2†	168149.0	125890.5	15049 ug/L	15049 ppb	02:19:25
3	Sc Radial	3983.2	3983.2	127 %		02:17:56
3	Y RADIAL	4559.7	4559.7	132.8 %		02:17:36
3	Al 396.153Radial†	11335.9	9035.0	11882 ug/L	11882 ppb	02:17:36
3	Ca 317.933Radial†	3157.3	2473.9	5839.1 ug/L	5839.1 ppb	02:17:56
3	Fe 238.204 Radial†	1385.1	1086.8	17772 ug/L	17772 ppb	02:17:56
3	K 766.490 Radial†	19550.6	12606.5	3159.8 ug/L	3159.8 ppb	02:17:36
3	Mg 279.077 IEC†	67.8	52.0	2728.9 ug/L	2728.9 ppb	02:17:56
3	Na 589.592 Radial†	-382.9	305.3	173.70 ug/L	173.70 ppb	02:17:36
3	Sr 421.552†	4181.1	3267.9	41.556 ug/L	41.556 ppb	02:17:36
3	Sc 361.383	681660.7	681660.7	137.53 %		02:18:54
3	Y 371.029	548437.5	548437.5	132.50 %		02:18:54
3	Ag 328.068†	-758.8	-672.2	-0.0481 ug/L	-0.0481 ppb	02:18:54
3	As 188.979†	-24.9	4.5	12.739 ug/L	12.739 ppb	02:19:14
3	B 249.677†	605.8	848.4	29.864 ug/L	29.864 ppb	02:19:14
3	Ba 233.527†	15249.1	11095.7	160.50 ug/L	160.50 ppb	02:18:54
3	Be 313.107†	-4359.5	720.8	1.7751 ug/L	1.7751 ppb	02:18:54
3	Cd 226.502†	-72.6	150.1	1.5475 ug/L	1.5475 ppb	02:19:14
3	Co 228.616†	227.9	223.4	6.8049 ug/L	6.8049 ppb	02:19:14
3	Cr 267.716†	726.0	451.6	11.947 ug/L	11.947 ppb	02:19:14
3	Cu 324.752†	8404.0	887.5	5.4840 ug/L	5.4840 ppb	02:18:54
3	Mn 257.610†	671507.5	487847.0	951.25 ug/L	951.25 ppb	02:18:54
3	Mo 202.031†	16.6	6.5	2.3619 ug/L	2.3619 ppb	02:19:14
3	Ni 231.604†	349.6	177.4	8.5987 ug/L	8.5987 ppb	02:19:14
3	P 214.914†	672.8	274.9	266.99 ug/L	266.99 ppb	02:19:14
3	Pb 220.353†	67.6	111.2	27.455 ug/L	27.455 ppb	02:19:14
3	S 181.975 Axial†	202.5	111.9	272.89 ug/L	272.89 ppb	02:19:14
3	Sb 206.836†	39.5	-9.7	-8.4693 ug/L	-8.4693 ppb	02:19:14
3	Se 196.026†	-89.0	-39.2	5.1748 ug/L	5.1748 ppb	02:19:14
3	Si 251.611†	169045.0	122327.1	6845.3 ug/L	6845.3 ppb	02:18:54
3	Sn 189.927†	-37.5	-37.9	-9.7013 ug/L	-9.7013 ppb	02:19:14
3	Ti 334.940†	300974.2	220278.3	586.69 ug/L	586.69 ppb	02:18:54
3	Tl 190.801†	-58.1	-15.2	0.5862 ug/L	0.5862 ppb	02:19:14
3	U 409.014†	-3067.1	509.6	25.903 ug/L	25.903 ppb	02:18:54
3	V 292.402†	1353.3	2570.4	30.926 ug/L	30.926 ppb	02:19:14
3	Zn 213.857†	7700.6	4947.1	84.988 ug/L	84.988 ppb	02:19:14
3	SiO2†	169932.1	122971.7	14700 ug/L	14700 ppb	02:19:30

Mean Data: 1202056920|959127|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	679381.4	137.07 %	3.914			2.86%
Sc Radial	3949.7	126 %	1.4			1.13%
Y 371.029	546393.4	132.01 %	3.545			2.69%
Y RADIAL	4570.5	133.2 %	0.47			0.36%
Ag 328.068†	-615.2	0.4434 ug/L	0.42952	0.4434 ppb	0.42952	96.86%
Al 396.153Radial†	9085.8	11948 ug/L	213.2	11948 ppb	213.2	1.78%
As 188.979†	4.7	12.948 ug/L	1.4907	12.948 ppb	1.4907	11.51%
B 249.677†	852.5	30.014 ug/L	0.8099	30.014 ppb	0.8099	2.70%
Ba 233.527†	11161.5	161.45 ug/L	4.519	161.45 ppb	4.519	2.80%
Be 313.107†	737.4	1.7919 ug/L	0.03929	1.7919 ppb	0.03929	2.19%
Ca 317.933Radial†	2476.4	5844.9 ug/L	33.35	5844.9 ppb	33.35	0.57%
Cd 226.502†	151.0	1.5633 ug/L	0.06583	1.5633 ppb	0.06583	4.21%
Co 228.616†	212.7	6.4046 ug/L	0.37119	6.4046 ppb	0.37119	5.80%
Cr 267.716†	457.2	12.079 ug/L	0.3333	12.079 ppb	0.3333	2.76%
Cu 324.752†	886.2	5.4830 ug/L	0.99444	5.4830 ppb	0.99444	18.14%
Fe 238.204 Radial†	1089.6	17817 ug/L	135.3	17817 ppb	135.3	0.76%
K 766.490 Radial†	12735.2	3192.1 ug/L	59.54	3192.1 ppb	59.54	1.87%

Mg 279.077 IEC†	51.5	2701.1 ug/L	29.42	2701.1 ppb	29.42	1.09%
Mn 257.610†	490460.8	956.34 ug/L	27.620	956.34 ppb	27.620	2.89%
Mo 202.031†	5.4	2.2152 ug/L	0.34872	2.2152 ppb	0.34872	15.74%
Na 589.592 Radial†	301.8	171.72 ug/L	15.218	171.72 ppb	15.218	8.86%
Ni 231.604†	190.8	9.2488 ug/L	0.59236	9.2488 ppb	0.59236	6.40%
P 214.914†	279.3	271.45 ug/L	8.972	271.45 ppb	8.972	3.31%
Pb 220.353†	120.9	29.759 ug/L	2.1523	29.759 ppb	2.1523	7.23%
S 181.975 Axial†	110.0	268.04 ug/L	11.077	268.04 ppb	11.077	4.13%
Sb 206.836†	-8.4	-7.6922 ug/L	1.62139	-7.6922 ppb	1.62139	21.08%
Se 196.026†	-34.2	11.116 ug/L	5.6003	11.116 ppb	5.6003	50.38%
Si 251.611†	122937.1	6879.5 ug/L	202.29	6879.5 ppb	202.29	2.94%
Sn 189.927†	-39.3	-10.171 ug/L	0.4467	-10.171 ppb	0.4467	4.39%
Sr 421.552†	3263.3	41.498 ug/L	0.4296	41.498 ppb	0.4296	1.04%
Ti 334.940†	221361.7	589.57 ug/L	17.658	589.57 ppb	17.658	3.00%
Tl 190.801†	-12.9	1.9436 ug/L	1.99777	1.9436 ppb	1.99777	102.79%
U 409.014†	409.3	20.392 ug/L	7.8768	20.392 ppb	7.8768	38.63%
V 292.402†	2577.6	30.998 ug/L	0.5107	30.998 ppb	0.5107	1.65%
Zn 213.857†	4998.1	85.882 ug/L	2.9352	85.882 ppb	2.9352	3.42%
SiO2†	122739.5	14672 ug/L	391.3	14672 ppb	391.3	2.67%

Sequence No.: 74

Sample ID: 248198002|959127|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 97

Date Collected: 3/30/2010 02:21:41

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248198002|959127|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4176.6	4176.6	133 %		02:23:34
1	Y RADIAL	5347.8	5347.8	155.8 %		02:23:34
1	Al 396.153Radial†	46366.0	34989.5	46014 ug/L	46014 ppb	02:23:34
1	Ca 317.933Radial†	14385.9	10810.8	25516 ug/L	25516 ppb	02:23:34
1	Fe 238.204 Radial†	6264.7	4709.3	77008 ug/L	77008 ppb	02:23:34
1	K 766.490 Radial†	67683.8	48124.1	12060 ug/L	12060 ppb	02:23:34
1	Mg 279.077 IEC†	264.8	197.8	10365 ug/L	10365 ppb	02:23:54
1	Na 589.592 Radial†	8680.3	7141.6	4063.5 ug/L	4063.5 ppb	02:23:34
1	Sr 421.552†	18404.0	13821.2	175.75 ug/L	175.75 ppb	02:23:34
1	Sc 361.383	691497.5	691497.5	139.51 %		02:24:52
1	Y 371.029	633931.7	633931.7	153.16 %		02:24:52
1	Ag 328.068†	-3806.2	-2848.7	0.3732 ug/L	0.3732 ppb	02:24:57
1	As 188.979†	-32.8	-0.9	36.752 ug/L	36.752 ppb	02:25:17
1	B 249.677†	1666.3	1602.3	49.331 ug/L	49.331 ppb	02:24:57
1	Ba 233.527†	51214.3	36717.1	531.65 ug/L	531.65 ppb	02:24:57
1	Be 313.107†	-380.4	3618.0	7.3158 ug/L	7.3158 ppb	02:24:57
1	Cd 226.502†	388.6	481.3	2.8725 ug/L	2.8725 ppb	02:25:17
1	Co 228.616†	689.2	551.8	14.719 ug/L	14.719 ppb	02:25:17
1	Cr 267.716†	3450.1	2396.7	61.579 ug/L	61.579 ppb	02:25:17
1	Cu 324.752†	63516.1	40303.8	211.17 ug/L	211.17 ppb	02:24:57
1	Mn 257.610†	1777791.2	1273863.5	2486.8 ug/L	2486.8 ppb	02:24:52
1	Mo 202.031†	33.2	18.2	8.8309 ug/L	8.8309 ppb	02:25:17
1	Ni 231.604†	1519.7	1012.5	49.096 ug/L	49.096 ppb	02:25:17
1	P 214.914†	2858.2	1834.4	1772.2 ug/L	1772.2 ppb	02:25:17
1	Pb 220.353†	730.2	585.4	141.82 ug/L	141.82 ppb	02:25:17
1	S 181.975 Axial†	937.0	636.3	1555.3 ug/L	1555.3 ppb	02:25:17
1	Sb 206.836†	46.4	-5.2	-12.717 ug/L	-12.717 ppb	02:25:17
1	Se 196.026†	-305.7	-193.6	-6.5913 ug/L	-6.5913 ppb	02:25:17
1	Si 251.611†	817339.7	585263.4	32751 ug/L	32751 ppb	02:24:52
1	Sn 189.927†	-105.7	-86.4	-15.203 ug/L	-15.203 ppb	02:25:17
1	Ti 334.940†	1172368.5	841763.4	2242.5 ug/L	2242.5 ppb	02:24:52
1	Tl 190.801†	-115.3	-55.6	-1.7093 ug/L	-1.7093 ppb	02:25:17
1	U 409.014†	-6707.1	-2067.7	-122.30 ug/L	-122.30 ppb	02:24:57
1	V 292.402†	9724.3	8556.6	99.656 ug/L	99.656 ppb	02:24:57
1	Zn 213.857†	49450.7	34793.1	604.74 ug/L	604.74 ppb	02:24:57
1	SiO2†	824411.9	590332.1	70568 ug/L	70568 ppb	02:26:25
2	Sc Radial	4145.7	4145.7	132 %		02:23:59
2	Y RADIAL	5269.1	5269.1	153.5 %		02:23:59
2	Al 396.153Radial†	45885.3	34884.9	45876 ug/L	45876 ppb	02:23:59
2	Ca 317.933Radial†	14287.5	10816.9	25531 ug/L	25531 ppb	02:23:59
2	Fe 238.204 Radial†	6172.7	4674.7	76442 ug/L	76442 ppb	02:23:59
2	K 766.490 Radial†	67324.0	48230.7	12087 ug/L	12087 ppb	02:23:59
2	Mg 279.077 IEC†	260.1	195.8	10256 ug/L	10256 ppb	02:24:19
2	Na 589.592 Radial†	8548.3	7090.2	4034.2 ug/L	4034.2 ppb	02:23:59
2	Sr 421.552†	18163.5	13742.1	174.75 ug/L	174.75 ppb	02:23:59
2	Sc 361.383	689490.7	689490.7	139.11 %		02:25:23
2	Y 371.029	632456.0	632456.0	152.80 %		02:25:23
2	Ag 328.068†	-3729.3	-2801.3	0.5953 ug/L	0.5953 ppb	02:25:28
2	As 188.979†	-21.8	6.9	42.675 ug/L	42.675 ppb	02:25:48
2	B 249.677†	1704.7	1633.4	50.624 ug/L	50.624 ppb	02:25:28
2	Ba 233.527†	51079.0	36726.7	531.78 ug/L	531.78 ppb	02:25:28
2	Be 313.107†	-381.7	3616.3	7.3105 ug/L	7.3105 ppb	02:25:28
2	Cd 226.502†	391.7	484.4	2.9990 ug/L	2.9990 ppb	02:25:48
2	Co 228.616†	705.7	565.0	15.218 ug/L	15.218 ppb	02:25:48
2	Cr 267.716†	3477.7	2423.7	62.122 ug/L	62.122 ppb	02:25:48
2	Cu 324.752†	63255.8	40249.2	210.86 ug/L	210.86 ppb	02:25:28
2	Mn 257.610†	1772593.9	1273836.1	2486.7 ug/L	2486.7 ppb	02:25:23
2	Mo 202.031†	29.5	15.6	8.4210 ug/L	8.4210 ppb	02:25:48
2	Ni 231.604†	1501.6	1002.6	48.619 ug/L	48.619 ppb	02:25:48

2	P 214.914†	2849.6	1834.1	1772.4 ug/L	1772.4 ppb	02:25:48
2	Pb 220.353†	726.0	583.9	141.49 ug/L	141.49 ppb	02:25:48
2	S 181.975 Axial†	934.7	636.6	1556.1 ug/L	1556.1 ppb	02:25:48
2	Sb 206.836†	52.1	-1.0	-10.229 ug/L	-10.229 ppb	02:25:48
2	Se 196.026†	-303.6	-192.7	-7.1368 ug/L	-7.1368 ppb	02:25:48
2	Si 251.611†	814440.6	584884.4	32730 ug/L	32730 ppb	02:25:23
2	Sn 189.927†	-120.6	-97.3	-19.032 ug/L	-19.032 ppb	02:25:48
2	Ti 334.940†	1167996.7	841066.4	2240.6 ug/L	2240.6 ppb	02:25:23
2	Tl 190.801†	-124.9	-62.7	-5.7970 ug/L	-5.7970 ppb	02:25:48
2	U 409.014†	-6808.0	-2154.2	-126.98 ug/L	-126.98 ppb	02:25:28
2	V 292.402†	9715.4	8570.5	99.908 ug/L	99.908 ppb	02:25:28
2	Zn 213.857†	49332.0	34811.0	605.15 ug/L	605.15 ppb	02:25:28
2	SiO2†	824361.1	592015.5	70769 ug/L	70769 ppb	02:26:31
3	Sc Radial	4126.5	4126.5	131 %		02:24:24
3	Y RADIAL	5244.0	5244.0	152.8 %		02:24:24
3	Al 396.153Radial†	45813.8	34992.4	46017 ug/L	46017 ppb	02:24:24
3	Ca 317.933Radial†	14268.8	10853.0	25616 ug/L	25616 ppb	02:24:24
3	Fe 238.204 Radial†	6178.0	4700.5	76864 ug/L	76864 ppb	02:24:24
3	K 766.490 Radial†	67049.6	48259.4	12094 ug/L	12094 ppb	02:24:24
3	Mg 279.077 IEC†	262.3	198.4	10395 ug/L	10395 ppb	02:24:44
3	Na 589.592 Radial†	8544.0	7117.1	4049.5 ug/L	4049.5 ppb	02:24:24
3	Sr 421.552†	18139.6	13787.9	175.33 ug/L	175.33 ppb	02:24:24
3	Sc 361.383	698981.1	698981.1	141.02 %		02:25:54
3	Y 371.029	641469.5	641469.5	154.98 %		02:25:54
3	Ag 328.068†	-3820.6	-2829.7	0.4854 ug/L	0.4854 ppb	02:25:59
3	As 188.979†	-40.6	-6.1	32.573 ug/L	32.573 ppb	02:26:19
3	B 249.677†	1754.0	1651.7	51.262 ug/L	51.262 ppb	02:25:59
3	Ba 233.527†	51514.8	36537.2	529.06 ug/L	529.06 ppb	02:25:59
3	Be 313.107†	-239.7	3720.7	7.3669 ug/L	7.3669 ppb	02:25:59
3	Cd 226.502†	404.6	489.7	3.0753 ug/L	3.0753 ppb	02:26:19
3	Co 228.616†	722.4	570.0	15.403 ug/L	15.403 ppb	02:26:19
3	Cr 267.716†	3481.8	2392.7	61.476 ug/L	61.476 ppb	02:26:19
3	Cu 324.752†	63567.3	39852.7	208.85 ug/L	208.85 ppb	02:25:59
3	Mn 257.610†	1789459.9	1268494.8	2476.3 ug/L	2476.3 ppb	02:25:54
3	Mo 202.031†	38.7	21.8	9.3318 ug/L	9.3318 ppb	02:26:19
3	Ni 231.604†	1518.2	999.7	48.477 ug/L	48.477 ppb	02:26:19
3	P 214.914†	2857.6	1812.0	1750.0 ug/L	1750.0 ppb	02:26:19
3	Pb 220.353†	716.8	570.3	138.30 ug/L	138.30 ppb	02:26:19
3	S 181.975 Axial†	944.1	634.2	1550.2 ug/L	1550.2 ppb	02:26:19
3	Sb 206.836†	48.1	-4.4	-12.192 ug/L	-12.192 ppb	02:26:19
3	Se 196.026†	-301.8	-188.5	-1.0686 ug/L	-1.0686 ppb	02:26:19
3	Si 251.611†	823844.1	583603.3	32658 ug/L	32658 ppb	02:25:54
3	Sn 189.927†	-108.2	-87.4	-15.536 ug/L	-15.536 ppb	02:26:19
3	Ti 334.940†	1182207.6	839743.4	2237.1 ug/L	2237.1 ppb	02:25:54
3	Tl 190.801†	-118.3	-56.8	-2.4806 ug/L	-2.4806 ppb	02:26:19
3	U 409.014†	-6848.9	-2116.8	-124.97 ug/L	-124.97 ppb	02:25:59
3	V 292.402†	9791.7	8529.7	99.331 ug/L	99.331 ppb	02:25:59
3	Zn 213.857†	49783.8	34649.9	602.23 ug/L	602.23 ppb	02:25:59
3	SiO2†	832305.9	589603.1	70480 ug/L	70480 ppb	02:26:37

Mean Data: 248198002|959127|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	693323.1	139.88 %		1.009				0.72%
Sc Radial	4149.6	132 %		0.8				0.61%
Y 371.029	635952.4	153.65 %		1.168				0.76%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 153.6%								
Y RADIAL	5287.0	154.0 %		1.58				1.02%
Ag 328.068†	-2826.6	0.4846 ug/L		0.11106	0.4846 ppb		0.11106	22.92%
Al 396.153Radial†	34955.6	45969 ug/L		80.6	45969 ppb		80.6	0.18%
As 188.979†	-0.0	37.333 ug/L		5.0757	37.333 ppb		5.0757	13.60%
B 249.677†	1629.1	50.406 ug/L		0.9836	50.406 ppb		0.9836	1.95%
Ba 233.527†	36660.3	530.83 ug/L		1.536	530.83 ppb		1.536	0.29%
Be 313.107†	3651.7	7.3311 ug/L		0.03114	7.3311 ppb		0.03114	0.42%
Ca 317.933Radial†	10826.9	25555 ug/L		53.9	25555 ppb		53.9	0.21%
Cd 226.502†	485.2	2.9822 ug/L		0.10241	2.9822 ppb		0.10241	3.43%
Co 228.616†	562.3	15.113 ug/L		0.3537	15.113 ppb		0.3537	2.34%
Cr 267.716†	2404.4	61.725 ug/L		0.3469	61.725 ppb		0.3469	0.56%
Cu 324.752†	40135.2	210.29 ug/L		1.262	210.29 ppb		1.262	0.60%
Fe 238.204 Radial†	4694.9	76771 ug/L		294.4	76771 ppb		294.4	0.38%

K 766.490 Radial†	48204.7	12080 ug/L	17.9	12080 ppb	17.9	0.15%
Mg 279.077 IEC†	197.3	10339 ug/L	73.3	10339 ppb	73.3	0.71%
Mn 257.610†	1272064.8	2483.3 ug/L	6.01	2483.3 ppb	6.01	0.24%
Mo 202.031†	18.5	8.8612 ug/L	0.45616	8.8612 ppb	0.45616	5.15%
Na 589.592 Radial†	7116.3	4049.1 ug/L	14.64	4049.1 ppb	14.64	0.36%
Ni 231.604†	1004.9	48.731 ug/L	0.3243	48.731 ppb	0.3243	0.67%
P 214.914†	1826.9	1764.9 ug/L	12.84	1764.9 ppb	12.84	0.73%
Pb 220.353†	579.9	140.54 ug/L	1.947	140.54 ppb	1.947	1.39%
S 181.975 Axial†	635.7	1553.9 ug/L	3.22	1553.9 ppb	3.22	0.21%
Sb 206.836†	-3.5	-11.713 ug/L	1.3118	-11.713 ppb	1.3118	11.20%
Se 196.026†	-191.6	-4.9322 ug/L	3.35714	-4.9322 ppb	3.35714	68.07%
Si 251.611†	584583.7	32713 ug/L	48.7	32713 ppb	48.7	0.15%
Sn 189.927†	-90.4	-16.590 ug/L	2.1207	-16.590 ppb	2.1207	12.78%
Sr 421.552†	13783.7	175.28 ug/L	0.506	175.28 ppb	0.506	0.29%
Ti 334.940†	840857.8	2240.1 ug/L	2.72	2240.1 ppb	2.72	0.12%
Tl 190.801†	-58.4	-3.3290 ug/L	2.17188	-3.3290 ppb	2.17188	65.24%
U 409.014†	-2112.9	-124.75 ug/L	2.349	-124.75 ppb	2.349	1.88%
V 292.402†	8552.3	99.632 ug/L	0.2896	99.632 ppb	0.2896	0.29%
Zn 213.857†	34751.3	604.04 ug/L	1.579	604.04 ppb	1.579	0.26%
SiO2†	590650.2	70606 ug/L	147.9	70606 ppb	147.9	0.21%
Internal Standard Check failed. Continue with analysis.						

Sequence No.: 75

Sample ID: 248198003|959127|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 98

Date Collected: 3/30/2010 02:28:49

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248198003|959127|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4111.4	4111.4	131 %		02:30:43
1	Y RADIAL	5492.9	5492.9	160.0 %		02:30:43
1	Al 396.153Radial†	61163.5	46857.6	61621 ug/L	61621 ppb	02:30:43
1	Ca 317.933Radial†	12426.3	9483.9	22385 ug/L	22385 ppb	02:30:43
1	Fe 238.204 Radial†	6999.6	5346.0	87419 ug/L	87419 ppb	02:30:43
1	K 766.490 Radial†	66409.7	47956.9	12020 ug/L	12020 ppb	02:30:43
1	Mg 279.077 IEC†	312.2	237.3	12437 ug/L	12437 ppb	02:31:03
1	Na 589.592 Radial†	1035.9	1399.6	796.38 ug/L	796.38 ppb	02:30:43
1	Sr 421.552†	18998.3	14495.1	184.36 ug/L	184.36 ppb	02:30:43
1	Sc 361.383	692212.5	692212.5	139.66 %		02:32:00
1	Y 371.029	658925.6	658925.6	159.20 %		02:32:00
1	Ag 328.068†	-4314.5	-3209.8	0.8698 ug/L	0.8698 ppb	02:32:06
1	As 188.979†	-32.3	-0.5	45.413 ug/L	45.413 ppb	02:32:26
1	B 249.677†	2958.1	2526.1	83.299 ug/L	83.299 ppb	02:32:06
1	Ba 233.527†	58518.8	41909.5	606.86 ug/L	606.86 ppb	02:32:06
1	Be 313.107†	87.2	3953.1	9.0771 ug/L	9.0771 ppb	02:32:06
1	Cd 226.502†	404.8	492.6	2.0423 ug/L	2.0423 ppb	02:32:26
1	Co 228.616†	1041.8	803.7	22.403 ug/L	22.403 ppb	02:32:26
1	Cr 267.716†	6213.6	4373.0	106.66 ug/L	106.66 ppb	02:32:26
1	Cu 324.752†	18990.1	8374.4	47.777 ug/L	47.777 ppb	02:32:06
1	Mn 257.610†	1952293.3	1397497.7	2728.4 ug/L	2728.4 ppb	02:32:00
1	Mo 202.031†	-13.3	-15.1	4.9331 ug/L	4.9331 ppb	02:32:26
1	Ni 231.604†	2236.4	1524.5	73.927 ug/L	73.927 ppb	02:32:26
1	P 214.914†	1327.3	736.1	684.17 ug/L	684.17 ppb	02:32:26
1	Pb 220.353†	348.7	311.8	80.498 ug/L	80.498 ppb	02:32:26
1	S 181.975 Axial†	640.7	423.5	1029.3 ug/L	1029.3 ppb	02:32:26
1	Sb 206.836†	56.3	1.8	-11.199 ug/L	-11.199 ppb	02:32:26
1	Se 196.026†	-345.8	-222.1	-7.6146 ug/L	-7.6146 ppb	02:32:26
1	Si 251.611†	816181.1	583828.6	32671 ug/L	32671 ppb	02:32:00
1	Sn 189.927†	-98.0	-80.8	-12.773 ug/L	-12.773 ppb	02:32:26
1	Ti 334.940†	1532994.0	1099117.6	2926.7 ug/L	2926.7 ppb	02:32:00
1	Tl 190.801†	-135.0	-69.6	-2.9999 ug/L	-2.9999 ppb	02:32:26
1	U 409.014†	-9941.6	-4378.8	-250.33 ug/L	-250.33 ppb	02:32:00
1	V 292.402†	13101.2	10967.4	129.04 ug/L	129.04 ppb	02:32:06
1	Zn 213.857†	28308.3	19617.7	334.20 ug/L	334.20 ppb	02:32:06
1	SiO2†	821733.9	587804.2	70265 ug/L	70265 ppb	02:33:34
2	Sc Radial	4123.0	4123.0	131 %		02:31:08
2	Y RADIAL	5488.5	5488.5	159.9 %		02:31:08
2	Al 396.153Radial†	61228.7	46776.4	61514 ug/L	61514 ppb	02:31:08
2	Ca 317.933Radial†	12498.8	9512.6	22452 ug/L	22452 ppb	02:31:08
2	Fe 238.204 Radial†	7015.5	5343.1	87372 ug/L	87372 ppb	02:31:08
2	K 766.490 Radial†	66609.5	47967.1	12023 ug/L	12023 ppb	02:31:08
2	Mg 279.077 IEC†	309.1	234.2	12273 ug/L	12273 ppb	02:31:28
2	Na 589.592 Radial†	1071.4	1424.4	810.50 ug/L	810.50 ppb	02:31:08
2	Sr 421.552†	18898.4	14378.3	182.87 ug/L	182.87 ppb	02:31:08
2	Sc 361.383	695023.3	695023.3	140.22 %		02:32:31
2	Y 371.029	662605.0	662605.0	160.09 %		02:32:31
2	Ag 328.068†	-4371.1	-3237.7	0.6329 ug/L	0.6329 ppb	02:32:37
2	As 188.979†	-39.1	-5.3	41.680 ug/L	41.680 ppb	02:32:57
2	B 249.677†	3061.9	2591.5	85.835 ug/L	85.835 ppb	02:32:37
2	Ba 233.527†	59450.8	42404.7	614.00 ug/L	614.00 ppb	02:32:37
2	Be 313.107†	-28.7	3870.2	9.0242 ug/L	9.0242 ppb	02:32:37
2	Cd 226.502†	426.8	507.2	2.3730 ug/L	2.3730 ppb	02:32:57
2	Co 228.616†	1050.5	806.9	22.529 ug/L	22.529 ppb	02:32:57
2	Cr 267.716†	6169.8	4323.7	105.56 ug/L	105.56 ppb	02:32:57
2	Cu 324.752†	19428.3	8631.9	49.098 ug/L	49.098 ppb	02:32:37
2	Mn 257.610†	1957004.0	1395203.6	2723.9 ug/L	2723.9 ppb	02:32:31
2	Mo 202.031†	-10.1	-12.8	5.2564 ug/L	5.2564 ppb	02:32:57
2	Ni 231.604†	2228.6	1512.5	73.342 ug/L	73.342 ppb	02:32:57

2	P 214.914†	1326.0	731.3	679.06 ug/L	679.06 ppb	02:32:57
2	Pb 220.353†	351.7	312.8	80.733 ug/L	80.733 ppb	02:32:57
2	S 181.975 Axial†	634.9	417.5	1014.6 ug/L	1014.6 ppb	02:32:57
2	Sb 206.836†	60.9	4.9	-9.3388 ug/L	-9.3388 ppb	02:32:57
2	Se 196.026†	-345.2	-220.7	-6.1040 ug/L	-6.1040 ppb	02:32:57
2	Si 251.611†	818907.3	583409.3	32647 ug/L	32647 ppb	02:32:31
2	Sn 189.927†	-110.1	-89.1	-15.619 ug/L	-15.619 ppb	02:32:57
2	Ti 334.940†	1538824.3	1098836.1	2926.0 ug/L	2926.0 ppb	02:32:31
2	Tl 190.801†	-144.9	-76.3	-6.8464 ug/L	-6.8464 ppb	02:32:57
2	U 409.014†	-10004.6	-4394.9	-251.21 ug/L	-251.21 ppb	02:32:31
2	V 292.402†	13385.8	11132.4	131.23 ug/L	131.23 ppb	02:32:37
2	Zn 213.857†	28809.8	19893.4	339.09 ug/L	339.09 ppb	02:32:37
2	SiO2†	812883.7	579113.1	69227 ug/L	69227 ppb	02:33:40
3	Sc Radial	3970.5	3970.5	126 %		02:31:33
3	Y RADIAL	5310.5	5310.5	154.7 %		02:31:33
3	Al 396.153Radial†	59323.2	47061.1	61889 ug/L	61889 ppb	02:31:33
3	Ca 317.933Radial†	12057.6	9529.3	22492 ug/L	22492 ppb	02:31:33
3	Fe 238.204 Radial†	6756.7	5343.7	87381 ug/L	87381 ppb	02:31:33
3	K 766.490 Radial†	64274.4	48069.3	12049 ug/L	12049 ppb	02:31:33
3	Mg 279.077 IEC†	309.1	243.3	12753 ug/L	12753 ppb	02:31:53
3	Na 589.592 Radial†	946.0	1356.6	771.88 ug/L	771.88 ppb	02:31:33
3	Sr 421.552†	18366.2	14510.5	184.55 ug/L	184.55 ppb	02:31:33
3	Sc 361.383	689098.6	689098.6	139.03 %		02:33:03
3	Y 371.029	655254.7	655254.7	158.31 %		02:33:03
3	Ag 328.068†	-4272.4	-3193.5	1.0138 ug/L	1.0138 ppb	02:33:08
3	As 188.979†	-44.9	-9.7	38.351 ug/L	38.351 ppb	02:33:28
3	B 249.677†	2996.1	2563.0	84.730 ug/L	84.730 ppb	02:33:08
3	Ba 233.527†	59874.1	43073.7	623.65 ug/L	623.65 ppb	02:33:08
3	Be 313.107†	207.8	4040.1	9.1491 ug/L	9.1491 ppb	02:33:08
3	Cd 226.502†	424.7	508.3	2.3981 ug/L	2.3981 ppb	02:33:28
3	Co 228.616†	1041.1	806.6	22.501 ug/L	22.501 ppb	02:33:28
3	Cr 267.716†	6196.2	4380.5	106.83 ug/L	106.83 ppb	02:33:28
3	Cu 324.752†	19484.9	8791.8	49.920 ug/L	49.920 ppb	02:33:08
3	Mn 257.610†	1958423.7	1408224.1	2749.3 ug/L	2749.3 ppb	02:33:03
3	Mo 202.031†	-15.1	-16.5	4.7462 ug/L	4.7462 ppb	02:33:28
3	Ni 231.604†	2249.5	1541.1	74.733 ug/L	74.733 ppb	02:33:28
3	P 214.914†	1340.6	750.0	697.94 ug/L	697.94 ppb	02:33:28
3	Pb 220.353†	349.6	313.5	80.983 ug/L	80.983 ppb	02:33:28
3	S 181.975 Axial†	629.9	417.8	1015.3 ug/L	1015.3 ppb	02:33:28
3	Sb 206.836†	61.1	5.5	-8.9949 ug/L	-8.9949 ppb	02:33:28
3	Se 196.026†	-334.2	-214.9	0.7552 ug/L	0.7552 ppb	02:33:28
3	Si 251.611†	815578.8	586036.3	32794 ug/L	32794 ppb	02:33:03
3	Sn 189.927†	-99.0	-81.9	-13.107 ug/L	-13.107 ppb	02:33:28
3	Ti 334.940†	1530340.3	1102169.2	2934.8 ug/L	2934.8 ppb	02:33:03
3	Tl 190.801†	-140.9	-74.3	-5.4974 ug/L	-5.4974 ppb	02:33:28
3	U 409.014†	-9922.0	-4396.9	-251.32 ug/L	-251.32 ppb	02:33:03
3	V 292.402†	13579.3	11353.7	134.15 ug/L	134.15 ppb	02:33:08
3	Zn 213.857†	29036.2	20232.9	345.10 ug/L	345.10 ppb	02:33:08
3	SiO2†	817767.5	587610.1	70242 ug/L	70242 ppb	02:33:46

Mean Data: 248198003|959127|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	692111.5	139.64 %		0.598			0.43%
Sc Radial	4068.3	129 %		2.7			2.09%
Y 371.029	658928.4	159.20 %		0.888			0.56%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 159.2%							
Y RADIAL	5430.6	158.2 %		3.03			1.92%
Ag 328.068†	-3213.7	0.8388 ug/L		0.19235	0.8388 ppb	0.19235	22.93%
Al 396.153Radial†	46898.4	61675 ug/L		192.9	61675 ppb	192.9	0.31%
As 188.979†	-5.2	41.815 ug/L		3.5331	41.815 ppb	3.5331	8.45%
B 249.677†	2560.2	84.621 ug/L		1.2713	84.621 ppb	1.2713	1.50%
Ba 233.527†	42462.6	614.83 ug/L		8.424	614.83 ppb	8.424	1.37%
Be 313.107†	3954.5	9.0835 ug/L		0.06270	9.0835 ppb	0.06270	0.69%
Ca 317.933Radial†	9508.6	22443 ug/L		54.2	22443 ppb	54.2	0.24%
Cd 226.502†	502.7	2.2711 ug/L		0.19859	2.2711 ppb	0.19859	8.74%
Co 228.616†	805.7	22.477 ug/L		0.0663	22.477 ppb	0.0663	0.30%
Cr 267.716†	4359.1	106.35 ug/L		0.687	106.35 ppb	0.687	0.65%
Cu 324.752†	8599.4	48.932 ug/L		1.0809	48.932 ppb	1.0809	2.21%
Fe 238.204 Radial†	5344.3	87391 ug/L		24.9	87391 ppb	24.9	0.03%

K 766.490 Radial†	47997.8	12031 ug/L	15.6	12031 ppb	15.6	0.13%
Mg 279.077 IEC†	238.2	12488 ug/L	243.8	12488 ppb	243.8	1.95%
Mn 257.610†	1400308.5	2733.9 ug/L	13.52	2733.9 ppb	13.52	0.49%
Mo 202.031†	-14.8	4.9786 ug/L	0.25811	4.9786 ppb	0.25811	5.18%
Na 589.592 Radial†	1393.5	792.92 ug/L	19.543	792.92 ppb	19.543	2.46%
Ni 231.604†	1526.0	74.001 ug/L	0.6986	74.001 ppb	0.6986	0.94%
P 214.914†	739.1	687.06 ug/L	9.768	687.06 ppb	9.768	1.42%
Pb 220.353†	312.7	80.738 ug/L	0.2426	80.738 ppb	0.2426	0.30%
S 181.975 Axial†	419.6	1019.7 ug/L	8.30	1019.7 ppb	8.30	0.81%
Sb 206.836†	4.1	-9.8442 ug/L	1.18571	-9.8442 ppb	1.18571	12.04%
Se 196.026†	-219.2	-4.3211 ug/L	4.46064	-4.3211 ppb	4.46064	103.23%
Si 251.611†	584424.7	32704 ug/L	79.0	32704 ppb	79.0	0.24%
Sn 189.927†	-83.9	-13.833 ug/L	1.5556	-13.833 ppb	1.5556	11.25%
Sr 421.552†	14461.3	183.92 ug/L	0.920	183.92 ppb	0.920	0.50%
Ti 334.940†	1100041.0	2929.2 ug/L	4.90	2929.2 ppb	4.90	0.17%
Tl 190.801†	-73.4	-5.1146 ug/L	1.95165	-5.1146 ppb	1.95165	38.16%
U 409.014†	-4390.2	-250.95 ug/L	0.542	-250.95 ppb	0.542	0.22%
V 292.402†	11151.2	131.47 ug/L	2.564	131.47 ppb	2.564	1.95%
Zn 213.857†	19914.7	339.46 ug/L	5.461	339.46 ppb	5.461	1.61%
SiO2†	584842.5	69911 ug/L	593.2	69911 ppb	593.2	0.85%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 76

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/30/2010 02:35:58

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	4008.2	4008.2	127 %		02:37:50
1	Y RADIAL	4343.7	4343.7	126.6 %		02:37:50
1	Al 396.153Radial†	4525.8	3637.6	4760.1 ug/L	4760.1 ppb	02:37:50
1	Ca 317.933Radial†	2587.9	2011.8	4748.4 ug/L	4748.4 ppb	02:38:10
1	Fe 238.204 Radial†	386.3	296.6	4864.3 ug/L	4864.3 ppb	02:38:10
1	K 766.490 Radial†	28525.2	19549.7	4897.5 ug/L	4897.5 ppb	02:37:50
1	Mg 279.077 IEC†	119.8	92.5	4883.3 ug/L	4883.3 ppb	02:38:10
1	Na 589.592 Radial†	21624.4	17568.9	9996.6 ug/L	9996.6 ppb	02:37:50
1	Sr 421.552†	50938.5	39922.1	508.17 ug/L	508.17 ppb	02:37:50
1	Sc 361.383	718675.9	718675.9	145.00 %		02:39:07
1	Y 371.029	558779.8	558779.8	135.00 %		02:39:07
1	Ag 328.068†	86662.2	59648.2	498.11 ug/L	498.11 ppb	02:39:12
1	As 188.979†	900.5	643.7	505.12 ug/L	505.12 ppb	02:39:33
1	B 249.677†	17822.1	12699.4	488.36 ug/L	488.36 ppb	02:39:12
1	Ba 233.527†	49518.5	34159.3	493.45 ug/L	493.45 ppb	02:39:12
1	Be 313.107†	1154031.6	799795.7	494.22 ug/L	494.22 ppb	02:39:07
1	Cd 226.502†	31822.6	22150.0	497.73 ug/L	497.73 ppb	02:39:12
1	Co 228.616†	19462.9	13480.8	495.72 ug/L	495.72 ppb	02:39:12
1	Cr 267.716†	32237.8	22157.3	492.98 ug/L	492.98 ppb	02:39:12
1	Cu 324.752†	145845.7	95362.6	489.82 ug/L	489.82 ppb	02:39:12
1	Mn 257.610†	363975.9	250602.5	488.08 ug/L	488.08 ppb	02:39:12
1	Mo 202.031†	5036.4	3467.9	486.16 ug/L	486.16 ppb	02:39:33
1	Ni 231.604†	14910.3	10206.4	494.75 ug/L	494.75 ppb	02:39:12
1	P 214.914†	3787.8	2398.0	2341.5 ug/L	2341.5 ppb	02:39:33
1	Pb 220.353†	2955.2	2100.2	494.98 ug/L	494.98 ppb	02:39:33
1	S 181.975 Axial†	648.6	412.0	1011.8 ug/L	1011.8 ppb	02:39:33
1	Sb 206.836†	1217.1	800.9	505.66 ug/L	505.66 ppb	02:39:33
1	Se 196.026†	598.6	438.4	522.88 ug/L	522.88 ppb	02:39:33
1	Si 251.611†	66085.3	44987.8	2511.5 ug/L	2511.5 ppb	02:39:12
1	Sn 189.927†	2077.9	1422.4	490.89 ug/L	490.89 ppb	02:39:33
1	Ti 334.940†	262795.9	182676.3	485.92 ug/L	485.92 ppb	02:39:12
1	Tl 190.801†	1201.4	855.6	493.09 ug/L	493.09 ppb	02:39:33
1	U 409.014†	9950.5	9602.4	524.98 ug/L	524.98 ppb	02:39:12
1	V 292.402†	52035.3	37473.8	502.52 ug/L	502.52 ppb	02:39:12
1	Zn 213.857†	41620.8	28052.6	492.81 ug/L	492.81 ppb	02:39:12
1	SiO2†	64954.4	44207.3	5271.3 ug/L	5271.3 ppb	02:40:40
2	Sc Radial	4394.1	4394.1	140 %		02:38:15
2	Y RADIAL	4749.2	4749.2	138.4 %		02:38:15
2	Al 396.153Radial†	4362.1	3208.8	4195.3 ug/L	4195.3 ppb	02:38:15
2	Ca 317.933Radial†	2592.2	1836.6	4334.8 ug/L	4334.8 ppb	02:38:35
2	Fe 238.204 Radial†	387.5	270.8	4444.0 ug/L	4444.0 ppb	02:38:35
2	K 766.490 Radial†	27653.7	16961.1	4248.8 ug/L	4248.8 ppb	02:38:15
2	Mg 279.077 IEC†	124.4	87.5	4621.7 ug/L	4621.7 ppb	02:38:35
2	Na 589.592 Radial†	20864.0	15535.3	8839.4 ug/L	8839.4 ppb	02:38:15
2	Sr 421.552†	49065.4	35073.0	446.45 ug/L	446.45 ppb	02:38:15
2	Sc 361.383	693479.1	693479.1	139.91 %		02:39:38
2	Y 371.029	539474.5	539474.5	130.34 %		02:39:38
2	Ag 328.068†	87177.4	62188.0	519.13 ug/L	519.13 ppb	02:39:43
2	As 188.979†	893.4	661.2	518.77 ug/L	518.77 ppb	02:40:03
2	B 249.677†	17898.9	13200.9	507.74 ug/L	507.74 ppb	02:39:43
2	Ba 233.527†	49831.9	35624.2	514.59 ug/L	514.59 ppb	02:39:43
2	Be 313.107†	1163067.3	835172.0	516.08 ug/L	516.08 ppb	02:39:38
2	Cd 226.502†	32036.5	23100.3	519.15 ug/L	519.15 ppb	02:39:43
2	Co 228.616†	19525.1	14012.9	515.29 ug/L	515.29 ppb	02:39:43
2	Cr 267.716†	32471.8	23132.4	514.61 ug/L	514.61 ppb	02:39:43
2	Cu 324.752†	146858.6	99741.3	512.27 ug/L	512.27 ppb	02:39:43
2	Mn 257.610†	365925.1	261116.3	508.52 ug/L	508.52 ppb	02:39:43
2	Mo 202.031†	5031.1	3590.3	503.27 ug/L	503.27 ppb	02:40:03
2	Ni 231.604†	14968.4	10621.6	514.87 ug/L	514.87 ppb	02:39:43

2	P 214.914†	3760.8	2473.7	2414.2 ug/L	2414.2 ppb	02:40:03
2	Pb 220.353†	2926.1	2153.4	507.41 ug/L	507.41 ppb	02:40:03
2	S 181.975 Axial†	645.8	426.3	1047.0 ug/L	1047.0 ppb	02:40:03
2	Sb 206.836†	1209.1	825.7	521.33 ug/L	521.33 ppb	02:40:03
2	Se 196.026†	589.0	446.5	531.07 ug/L	531.07 ppb	02:40:03
2	Si 251.611†	66504.8	46943.6	2620.7 ug/L	2620.7 ppb	02:39:43
2	Sn 189.927†	2057.3	1459.7	503.59 ug/L	503.59 ppb	02:40:03
2	Ti 334.940†	264220.6	190279.8	506.09 ug/L	506.09 ppb	02:39:43
2	Tl 190.801†	1200.9	885.4	510.25 ug/L	510.25 ppb	02:40:03
2	U 409.014†	10310.1	10108.8	552.75 ug/L	552.75 ppb	02:39:43
2	V 292.402†	52360.3	39010.0	523.17 ug/L	523.17 ppb	02:39:43
2	Zn 213.857†	41876.7	29278.5	514.45 ug/L	514.45 ppb	02:39:43
2	SiO2†	65766.5	46415.4	5534.7 ug/L	5534.7 ppb	02:40:45
3	Sc Radial	4132.7	4132.7	131 %		02:38:40
3	Y RADIAL	4511.7	4511.7	131.4 %		02:38:40
3	Al 396.153Radial†	4505.3	3515.1	4598.1 ug/L	4598.1 ppb	02:38:40
3	Ca 317.933Radial†	2617.8	1973.3	4657.6 ug/L	4657.6 ppb	02:39:00
3	Fe 238.204 Radial†	388.3	289.0	4741.1 ug/L	4741.1 ppb	02:39:00
3	K 766.490 Radial†	28521.1	18872.5	4727.7 ug/L	4727.7 ppb	02:38:40
3	Mg 279.077 IEC†	124.6	93.3	4929.0 ug/L	4929.0 ppb	02:39:00
3	Na 589.592 Radial†	21686.3	17105.0	9732.6 ug/L	9732.6 ppb	02:38:40
3	Sr 421.552†	50734.1	38562.8	490.87 ug/L	490.87 ppb	02:38:40
3	Sc 361.383	683374.3	683374.3	137.87 %		02:40:09
3	Y 371.029	530349.2	530349.2	128.13 %		02:40:09
3	Ag 328.068†	85859.4	62153.4	518.94 ug/L	518.94 ppb	02:40:14
3	As 188.979†	882.3	662.5	519.88 ug/L	519.88 ppb	02:40:34
3	B 249.677†	17609.5	13180.1	506.88 ug/L	506.88 ppb	02:40:14
3	Ba 233.527†	49331.4	35787.8	516.95 ug/L	516.95 ppb	02:40:14
3	Be 313.107†	1142276.6	832384.5	514.36 ug/L	514.36 ppb	02:40:09
3	Cd 226.502†	31727.4	23214.7	521.69 ug/L	521.69 ppb	02:40:14
3	Co 228.616†	19433.9	14153.2	520.44 ug/L	520.44 ppb	02:40:14
3	Cr 267.716†	32075.9	23188.4	515.89 ug/L	515.89 ppb	02:40:14
3	Cu 324.752†	144627.1	99674.9	511.96 ug/L	511.96 ppb	02:40:14
3	Mn 257.610†	362139.0	262237.6	510.72 ug/L	510.72 ppb	02:40:14
3	Mo 202.031†	4980.2	3606.6	505.57 ug/L	505.57 ppb	02:40:34
3	Ni 231.604†	14796.0	10654.7	516.47 ug/L	516.47 ppb	02:40:14
3	P 214.914†	3751.7	2506.8	2447.9 ug/L	2447.9 ppb	02:40:34
3	Pb 220.353†	2909.3	2172.2	511.89 ug/L	511.89 ppb	02:40:34
3	S 181.975 Axial†	637.6	427.2	1049.1 ug/L	1049.1 ppb	02:40:34
3	Sb 206.836†	1198.3	830.7	524.45 ug/L	524.45 ppb	02:40:34
3	Se 196.026†	592.7	455.4	542.24 ug/L	542.24 ppb	02:40:34
3	Si 251.611†	65635.9	47016.2	2624.8 ug/L	2624.8 ppb	02:40:14
3	Sn 189.927†	2042.7	1470.9	507.54 ug/L	507.54 ppb	02:40:34
3	Ti 334.940†	260929.6	190685.2	507.20 ug/L	507.20 ppb	02:40:14
3	Tl 190.801†	1212.1	906.2	522.16 ug/L	522.16 ppb	02:40:34
3	U 409.014†	9813.1	9857.2	538.92 ug/L	538.92 ppb	02:40:14
3	V 292.402†	51643.3	39043.3	523.58 ug/L	523.58 ppb	02:40:14
3	Zn 213.857†	41459.3	29418.3	516.87 ug/L	516.87 ppb	02:40:14
3	SiO2†	66262.3	47470.0	5660.8 ug/L	5660.8 ppb	02:40:50

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	698509.8	140.93 %		3.668			2.60%
Sc Radial	4178.3	133 %		6.3			4.71%
Y 371.029	542867.8	131.16 %		3.507			2.67%
Y RADIAL	4534.8	132.1 %		5.94			4.49%
Ag 328.068†	61329.8	512.06 ug/L		12.080	512.06 ppb	12.080	2.36%
QC value within limits for Ag 328.068 Recovery = 102.41%							
Al 396.153Radial†	3453.8	4517.8 ug/L		290.82	4517.8 ppb	290.82	6.44%
QC value within limits for Al 396.153Radial Recovery = 90.36%							
As 188.979†	655.8	514.59 ug/L		8.219	514.59 ppb	8.219	1.60%
QC value within limits for As 188.979 Recovery = 102.92%							
B 249.677†	13026.8	500.99 ug/L		10.950	500.99 ppb	10.950	2.19%
QC value within limits for B 249.677 Recovery = 100.20%							
Ba 233.527†	35190.4	508.33 ug/L		12.943	508.33 ppb	12.943	2.55%
QC value within limits for Ba 233.527 Recovery = 101.67%							
Be 313.107†	822450.7	508.22 ug/L		12.154	508.22 ppb	12.154	2.39%
QC value within limits for Be 313.107 Recovery = 101.64%							
Ca 317.933Radial†	1940.6	4580.3 ug/L		217.37	4580.3 ppb	217.37	4.75%

QC value within limits for Ca 317.933 Radial Recovery = 91.61%							
Cd	226.502†	22821.7	512.85 ug/L	13.161	512.85 ppb	13.161	2.57%
QC value within limits for Cd 226.502 Recovery = 102.57%							
Co	228.616†	13882.3	510.48 ug/L	13.044	510.48 ppb	13.044	2.56%
QC value within limits for Co 228.616 Recovery = 102.10%							
Cr	267.716†	22826.0	507.82 ug/L	12.870	507.82 ppb	12.870	2.53%
QC value within limits for Cr 267.716 Recovery = 101.56%							
Cu	324.752†	98259.6	504.68 ug/L	12.873	504.68 ppb	12.873	2.55%
QC value within limits for Cu 324.752 Recovery = 100.94%							
Fe	238.204 Radial†	285.5	4683.2 ug/L	216.06	4683.2 ppb	216.06	4.61%
QC value within limits for Fe 238.204 Radial Recovery = 93.66%							
K	766.490 Radial†	18461.1	4624.7 ug/L	336.43	4624.7 ppb	336.43	7.27%
QC value within limits for K 766.490 Radial Recovery = 92.49%							
Mg	279.077 IEC†	91.1	4811.3 ug/L	165.85	4811.3 ppb	165.85	3.45%
QC value within limits for Mg 279.077 IEC Recovery = 96.23%							
Mn	257.610†	257985.5	502.44 ug/L	12.481	502.44 ppb	12.481	2.48%
QC value within limits for Mn 257.610 Recovery = 100.49%							
Mo	202.031†	3554.9	498.33 ug/L	10.606	498.33 ppb	10.606	2.13%
QC value within limits for Mo 202.031 Recovery = 99.67%							
Na	589.592 Radial†	16736.4	9522.9 ug/L	606.41	9522.9 ppb	606.41	6.37%
QC value within limits for Na 589.592 Radial Recovery = 95.23%							
Ni	231.604†	10494.2	508.70 ug/L	12.108	508.70 ppb	12.108	2.38%
QC value within limits for Ni 231.604 Recovery = 101.74%							
P	214.914†	2459.5	2401.2 ug/L	54.36	2401.2 ppb	54.36	2.26%
QC value within limits for P 214.914 Recovery = 96.05%							
Pb	220.353†	2141.9	504.76 ug/L	8.758	504.76 ppb	8.758	1.74%
QC value within limits for Pb 220.353 Recovery = 100.95%							
S	181.975 Axial†	421.8	1036.0 ug/L	20.93	1036.0 ppb	20.93	2.02%
QC value within limits for S 181.975 Axial Recovery = 103.60%							
Sb	206.836†	819.1	517.14 ug/L	10.071	517.14 ppb	10.071	1.95%
QC value within limits for Sb 206.836 Recovery = 103.43%							
Se	196.026†	446.7	532.06 ug/L	9.719	532.06 ppb	9.719	1.83%
QC value within limits for Se 196.026 Recovery = 106.41%							
Si	251.611†	46315.9	2585.7 ug/L	64.26	2585.7 ppb	64.26	2.49%
QC value within limits for Si 251.611 Recovery = 103.43%							
Sn	189.927†	1451.0	500.67 ug/L	8.699	500.67 ppb	8.699	1.74%
QC value within limits for Sn 189.927 Recovery = 100.13%							
Sr	421.552†	37852.7	481.83 ug/L	31.840	481.83 ppb	31.840	6.61%
QC value within limits for Sr 421.552 Recovery = 96.37%							
Ti	334.940†	187880.4	499.74 ug/L	11.981	499.74 ppb	11.981	2.40%
QC value within limits for Ti 334.940 Recovery = 99.95%							
Tl	190.801†	882.4	508.50 ug/L	14.614	508.50 ppb	14.614	2.87%
QC value within limits for Tl 190.801 Recovery = 101.70%							
U	409.014†	9856.1	538.88 ug/L	13.885	538.88 ppb	13.885	2.58%
QC value within limits for U 409.014 Recovery = 107.78%							
V	292.402†	38509.0	516.42 ug/L	12.044	516.42 ppb	12.044	2.33%
QC value within limits for V 292.402 Recovery = 103.28%							
Zn	213.857†	28916.5	508.05 ug/L	13.248	508.05 ppb	13.248	2.61%
QC value within limits for Zn 213.857 Recovery = 101.61%							
SiO2†		46030.9	5488.9 ug/L	198.75	5488.9 ppb	198.75	3.62%
QC value within limits for SiO2 Recovery = 102.64%							

All analyte(s) passed QC.

Sequence No.: 77

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/30/2010 02:42:59

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3901.3	3901.3	124 %		02:45:12
1	Y RADIAL	4311.4	4311.4	125.6 %		02:44:52
1	Al 396.153Radial†	-87.3	17.4	22.799 ug/L	22.799 ppb	02:44:52
1	Ca 317.933Radial†	18.4	-3.3	-7.6888 ug/L	-7.6888 ppb	02:45:12
1	Fe 238.204 Radial†	5.9	-1.7	-27.334 ug/L	-27.334 ppb	02:45:12
1	K 766.490 Radial†	3074.6	-346.8	-86.981 ug/L	-86.981 ppb	02:44:52
1	Mg 279.077 IEC†	2.4	0.4	23.715 ug/L	23.715 ppb	02:45:12
1	Na 589.592 Radial†	-782.9	-23.4	-13.314 ug/L	-13.314 ppb	02:44:52
1	Sr 421.552†	4.7	-28.4	-0.3621 ug/L	-0.3621 ppb	02:44:52
1	Sc 361.383	691179.1	691179.1	139.45 %		02:46:09
1	Y 371.029	542383.6	542383.6	131.04 %		02:46:09
1	Ag 328.068†	119.8	-34.6	-0.3193 ug/L	-0.3193 ppb	02:46:09
1	As 188.979†	-26.0	4.0	3.1123 ug/L	3.1123 ppb	02:46:29
1	B 249.677†	-394.6	125.0	4.8304 ug/L	4.8304 ppb	02:46:29
1	Ba 233.527†	4.1	10.6	0.1635 ug/L	0.1635 ppb	02:46:29
1	Be 313.107†	-4230.9	856.6	0.5307 ug/L	0.5307 ppb	02:46:09
1	Cd 226.502†	-212.0	50.8	1.1550 ug/L	1.1550 ppb	02:46:29
1	Co 228.616†	-55.4	18.0	0.6627 ug/L	0.6627 ppb	02:46:29
1	Cr 267.716†	87.2	-13.7	-0.3219 ug/L	-0.3219 ppb	02:46:29
1	Cu 324.752†	5390.1	-1358.0	-7.0072 ug/L	-7.0072 ppb	02:46:09
1	Mn 257.610†	506.3	-59.0	-0.1185 ug/L	-0.1185 ppb	02:46:29
1	Mo 202.031†	20.4	9.0	1.2593 ug/L	1.2593 ppb	02:46:29
1	Ni 231.604†	87.2	-14.3	-0.6957 ug/L	-0.6957 ppb	02:46:29
1	P 214.914†	215.0	-60.1	-59.677 ug/L	-59.677 ppb	02:46:29
1	Pb 220.353†	-68.1	13.2	3.1250 ug/L	3.1250 ppb	02:46:29
1	S 181.975 Axial†	41.8	-5.3	-13.120 ug/L	-13.120 ppb	02:46:29
1	Sb 206.836†	35.5	-13.0	-7.9186 ug/L	-7.9186 ppb	02:46:29
1	Se 196.026†	-15.1	14.7	16.942 ug/L	16.942 ppb	02:46:29
1	Si 251.611†	582.3	-171.9	-9.6367 ug/L	-9.6367 ppb	02:46:29
1	Sn 189.927†	6.5	-6.0	-2.0610 ug/L	-2.0610 ppb	02:46:29
1	Ti 334.940†	-1411.9	420.4	1.0918 ug/L	1.0918 ppb	02:46:09
1	Tl 190.801†	-32.3	3.9	2.2322 ug/L	2.2322 ppb	02:46:29
1	U 409.014†	-2431.9	995.9	54.620 ug/L	54.620 ppb	02:46:09
1	V 292.402†	-1676.7	384.0	5.2081 ug/L	5.2081 ppb	02:46:09
1	Zn 213.857†	621.3	-206.6	-3.6445 ug/L	-3.6445 ppb	02:46:29
1	SiO2†	601.3	-158.8	-19.019 ug/L	-19.019 ppb	02:47:25
2	Sc Radial	3863.5	3863.5	123 %		02:45:37
2	Y RADIAL	4377.6	4377.6	127.5 %		02:45:17
2	Al 396.153Radial†	-75.4	26.4	34.723 ug/L	34.723 ppb	02:45:17
2	Ca 317.933Radial†	19.0	-2.7	-6.2573 ug/L	-6.2573 ppb	02:45:37
2	Fe 238.204 Radial†	6.8	-0.9	-14.276 ug/L	-14.276 ppb	02:45:37
2	K 766.490 Radial†	2881.9	-479.3	-120.24 ug/L	-120.24 ppb	02:45:17
2	Mg 279.077 IEC†	2.4	0.5	27.068 ug/L	27.068 ppb	02:45:37
2	Na 589.592 Radial†	-705.0	33.9	19.262 ug/L	19.262 ppb	02:45:17
2	Sr 421.552†	31.9	-6.3	-0.0798 ug/L	-0.0798 ppb	02:45:17
2	Sc 361.383	692548.4	692548.4	139.72 %		02:46:34
2	Y 371.029	543520.8	543520.8	131.32 %		02:46:34
2	Ag 328.068†	112.7	-39.8	-0.3586 ug/L	-0.3586 ppb	02:46:34
2	As 188.979†	-22.9	6.2	4.8322 ug/L	4.8322 ppb	02:46:54
2	B 249.677†	-447.6	87.6	3.3843 ug/L	3.3843 ppb	02:46:54
2	Ba 233.527†	4.2	10.7	0.1663 ug/L	0.1663 ppb	02:46:54
2	Be 313.107†	-4165.8	909.3	0.5631 ug/L	0.5631 ppb	02:46:34
2	Cd 226.502†	-200.5	59.3	1.3446 ug/L	1.3446 ppb	02:46:54
2	Co 228.616†	-49.0	22.6	0.8307 ug/L	0.8307 ppb	02:46:54
2	Cr 267.716†	93.2	-9.6	-0.2287 ug/L	-0.2287 ppb	02:46:54
2	Cu 324.752†	5527.4	-1267.3	-6.5421 ug/L	-6.5421 ppb	02:46:34
2	Mn 257.610†	493.5	-68.9	-0.1366 ug/L	-0.1366 ppb	02:46:54
2	Mo 202.031†	7.5	-0.2	-0.0341 ug/L	-0.0341 ppb	02:46:54
2	Ni 231.604†	63.7	-31.3	-1.5179 ug/L	-1.5179 ppb	02:46:54

2	P 214.914†	215.1	-60.3	-60.011 ug/L	-60.011 ppb	02:46:54
2	Pb 220.353†	-64.6	15.8	3.7340 ug/L	3.7340 ppb	02:46:54
2	S 181.975 Axial†	43.7	-4.0	-9.8696 ug/L	-9.8696 ppb	02:46:54
2	Sb 206.836†	38.6	-10.9	-6.6517 ug/L	-6.6517 ppb	02:46:54
2	Se 196.026†	-21.7	9.9	11.465 ug/L	11.465 ppb	02:46:54
2	Si 251.611†	597.1	-162.2	-9.0739 ug/L	-9.0739 ppb	02:46:54
2	Sn 189.927†	7.6	-5.2	-1.7920 ug/L	-1.7920 ppb	02:46:54
2	Ti 334.940†	-1416.3	419.2	1.0876 ug/L	1.0876 ppb	02:46:34
2	Tl 190.801†	-42.6	-3.4	-1.9555 ug/L	-1.9555 ppb	02:46:54
2	U 409.014†	-2385.8	1032.3	56.618 ug/L	56.618 ppb	02:46:34
2	V 292.402†	-1640.6	412.2	5.5652 ug/L	5.5652 ppb	02:46:34
2	Zn 213.857†	635.7	-197.2	-3.4758 ug/L	-3.4758 ppb	02:46:54
2	SiO2†	638.1	-133.3	-15.934 ug/L	-15.934 ppb	02:47:30
3	Sc Radial	3963.7	3963.7	126 %		02:46:02
3	Y RADIAL	4405.0	4405.0	128.3 %		02:45:42
3	Al 396.153Radial†	-88.5	17.5	23.015 ug/L	23.015 ppb	02:45:42
3	Ca 317.933Radial†	17.2	-4.5	-10.528 ug/L	-10.528 ppb	02:46:02
3	Fe 238.204 Radial†	8.2	0.1	1.9192 ug/L	1.9192 ppb	02:46:02
3	K 766.490 Radial†	2873.6	-545.2	-136.76 ug/L	-136.76 ppb	02:45:42
3	Mg 279.077 IEC†	-0.4	-1.8	-94.171 ug/L	-94.171 ppb	02:46:02
3	Na 589.592 Radial†	-708.4	45.7	25.980 ug/L	25.980 ppb	02:45:42
3	Sr 421.552†	39.9	-0.6	-0.0081 ug/L	-0.0081 ppb	02:45:42
3	Sc 361.383	687896.9	687896.9	138.79 %		02:47:00
3	Y 371.029	539825.5	539825.5	130.42 %		02:47:00
3	Ag 328.068†	131.2	-25.9	-0.2456 ug/L	-0.2456 ppb	02:47:00
3	As 188.979†	-27.5	2.8	2.1606 ug/L	2.1606 ppb	02:47:20
3	B 249.677†	-418.6	106.3	4.1046 ug/L	4.1046 ppb	02:47:20
3	Ba 233.527†	-0.8	7.1	0.1134 ug/L	0.1134 ppb	02:47:20
3	Be 313.107†	-4283.9	804.0	0.4986 ug/L	0.4986 ppb	02:47:00
3	Cd 226.502†	-194.0	63.1	1.4287 ug/L	1.4287 ppb	02:47:20
3	Co 228.616†	-58.0	16.0	0.5865 ug/L	0.5865 ppb	02:47:20
3	Cr 267.716†	84.4	-15.5	-0.3613 ug/L	-0.3613 ppb	02:47:20
3	Cu 324.752†	5458.4	-1290.3	-6.6627 ug/L	-6.6627 ppb	02:47:00
3	Mn 257.610†	473.7	-80.7	-0.1531 ug/L	-0.1531 ppb	02:47:20
3	Mo 202.031†	17.0	6.7	0.9352 ug/L	0.9352 ppb	02:47:20
3	Ni 231.604†	79.4	-19.7	-0.9538 ug/L	-0.9538 ppb	02:47:20
3	P 214.914†	216.4	-58.4	-58.002 ug/L	-58.002 ppb	02:47:20
3	Pb 220.353†	-70.5	11.2	2.6482 ug/L	2.6482 ppb	02:47:20
3	S 181.975 Axial†	35.0	-10.1	-24.774 ug/L	-24.774 ppb	02:47:20
3	Sb 206.836†	40.0	-9.7	-5.8638 ug/L	-5.8638 ppb	02:47:20
3	Se 196.026†	-23.0	8.9	10.331 ug/L	10.331 ppb	02:47:20
3	Si 251.611†	584.2	-168.6	-9.4471 ug/L	-9.4471 ppb	02:47:20
3	Sn 189.927†	15.1	0.2	0.0676 ug/L	0.0676 ppb	02:47:20
3	Ti 334.940†	-1311.1	488.1	1.2778 ug/L	1.2778 ppb	02:47:00
3	Tl 190.801†	-35.0	1.8	1.0349 ug/L	1.0349 ppb	02:47:20
3	U 409.014†	-2216.9	1142.5	62.658 ug/L	62.658 ppb	02:47:00
3	V 292.402†	-1689.4	369.1	5.0151 ug/L	5.0151 ppb	02:47:00
3	Zn 213.857†	628.7	-199.2	-3.5165 ug/L	-3.5165 ppb	02:47:20
3	SiO2†	613.6	-147.9	-17.701 ug/L	-17.701 ppb	02:47:35

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	690541.5	139.32 %		0.482			0.35%
Sc Radial	3909.5	124 %		1.6			1.29%
Y 371.029	541910.0	130.93 %		0.457			0.35%
Y RADIAL	4364.7	127.2 %		1.40			1.10%
Ag 328.068†	-33.4	-0.3078 ug/L		0.05737	-0.3078 ppb	0.05737	18.64%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	20.4	26.846 ug/L		6.8230	26.846 ppb	6.8230	25.42%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	4.3	3.3684 ug/L		1.35410	3.3684 ppb	1.35410	40.20%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	106.3	4.1064 ug/L		0.72308	4.1064 ppb	0.72308	17.61%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	9.5	0.1477 ug/L		0.02975	0.1477 ppb	0.02975	20.14%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	856.6	0.5308 ug/L		0.03225	0.5308 ppb	0.03225	6.08%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-3.5	-8.1581 ug/L		2.17378	-8.1581 ppb	2.17378	26.65%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd 226.502†	57.7	1.3094 ug/L	0.14021	1.3094 ppb	0.14021	10.71%			
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co 228.616†	18.9	0.6933 ug/L	0.12494	0.6933 ppb	0.12494	18.02%			
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr 267.716†	-12.9	-0.3039 ug/L	0.06811	-0.3039 ppb	0.06811	22.41%			
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu 324.752†	-1305.2	-6.7373 ug/L	0.24138	-6.7373 ppb	0.24138	3.58%			
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe 238.204 Radial†	-0.8	-13.230 ug/L	14.6547	-13.230 ppb	14.6547	110.77%			
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K 766.490 Radial†	-457.1	-114.66 ug/L	25.355	-114.66 ppb	25.355	22.11%			
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg 279.077 IEC†	-0.3	-14.463 ug/L	69.0495	-14.463 ppb	69.0495	477.43%			
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn 257.610†	-69.5	-0.1361 ug/L	0.01732	-0.1361 ppb	0.01732	12.73%			
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo 202.031†	5.1	0.7201 ug/L	0.67297	0.7201 ppb	0.67297	93.45%			
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na 589.592 Radial†	18.7	10.642 ug/L	21.0172	10.642 ppb	21.0172	197.48%			
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni 231.604†	-21.8	-1.0558 ug/L	0.42047	-1.0558 ppb	0.42047	39.82%			
QC value within limits for Ni 231.604 Recovery = Not calculated									
P 214.914†	-59.6	-59.230 ug/L	1.0765	-59.230 ppb	1.0765	1.82%			
QC value within limits for P 214.914 Recovery = Not calculated									
Pb 220.353†	13.4	3.1690 ug/L	0.54421	3.1690 ppb	0.54421	17.17%			
QC value within limits for Pb 220.353 Recovery = Not calculated									
S 181.975 Axial†	-6.5	-15.921 ug/L	7.8370	-15.921 ppb	7.8370	49.22%			
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb 206.836†	-11.2	-6.8114 ug/L	1.03665	-6.8114 ppb	1.03665	15.22%			
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se 196.026†	11.2	12.913 ug/L	3.5355	12.913 ppb	3.5355	27.38%			
QC value within limits for Se 196.026 Recovery = Not calculated									
Si 251.611†	-167.6	-9.3859 ug/L	0.28633	-9.3859 ppb	0.28633	3.05%			
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn 189.927†	-3.7	-1.2618 ug/L	1.15912	-1.2618 ppb	1.15912	91.86%			
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr 421.552†	-11.8	-0.1500 ug/L	0.18716	-0.1500 ppb	0.18716	124.77%			
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti 334.940†	442.6	1.1524 ug/L	0.10862	1.1524 ppb	0.10862	9.43%			
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl 190.801†	0.8	0.4372 ug/L	2.15692	0.4372 ppb	2.15692	493.35%			
QC value within limits for Tl 190.801 Recovery = Not calculated									
U 409.014†	1056.9	57.965 ug/L	4.1848	57.965 ppb	4.1848	7.22%			
QC value greater than the upper limit for U 409.014 Recovery = Not calculated									
V 292.402†	388.5	5.2628 ug/L	0.27912	5.2628 ppb	0.27912	5.30%			
QC value greater than the upper limit for V 292.402 Recovery = Not calculated									
Zn 213.857†	-201.0	-3.5456 ug/L	0.08804	-3.5456 ppb	0.08804	2.48%			
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†	-146.7	-17.551 ug/L	1.5480	-17.551 ppb	1.5480	8.82%			
QC value within limits for SiO2 Recovery = Not calculated									
QC Failed. Continue with analysis.									

Sequence No.: 78

Sample ID: 248198004|959127|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 99

Date Collected: 3/30/2010 02:49:46

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248198004|959127|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3977.2	3977.2	127 %			02:52:00
1	Y RADIAL	5338.8	5338.8	155.5 %			02:51:40
1	Al 396.153Radial†	51538.0	40827.6	53691 ug/L		53691 ppb	02:51:40
1	Ca 317.933Radial†	12973.5	10237.2	24163 ug/L		24163 ppb	02:51:40
1	Fe 238.204 Radial†	6112.1	4825.1	78902 ug/L		78902 ppb	02:51:40
1	K 766.490 Radial†	63395.3	47288.4	11850 ug/L		11850 ppb	02:51:40
1	Mg 279.077 IEC†	274.9	215.8	11314 ug/L		11314 ppb	02:52:00
1	Na 589.592 Radial†	14304.3	11914.8	6779.4 ug/L		6779.4 ppb	02:51:40
1	Sr 421.552†	18833.3	14855.2	188.93 ug/L		188.93 ppb	02:51:40
1	Sc 361.383	695241.8	695241.8	140.27 %			02:52:57
1	Y 371.029	648087.9	648087.9	156.58 %			02:52:57
1	Ag 328.068†	-3943.1	-2931.6	0.3379 ug/L		0.3379 ppb	02:53:02
1	As 188.979†	-41.1	-6.7	32.239 ug/L		32.239 ppb	02:53:22
1	B 249.677†	1738.3	1647.2	50.760 ug/L		50.760 ppb	02:53:02
1	Ba 233.527†	48981.3	34927.5	505.93 ug/L		505.93 ppb	02:53:02
1	Be 313.107†	1621.5	5046.6	8.0827 ug/L		8.0827 ppb	02:53:02
1	Cd 226.502†	346.1	449.6	1.9530 ug/L		1.9530 ppb	02:53:22
1	Co 228.616†	669.9	535.3	14.182 ug/L		14.182 ppb	02:53:22
1	Cr 267.716†	3364.1	2322.1	60.146 ug/L		60.146 ppb	02:53:22
1	Cu 324.752†	42325.5	24951.4	132.43 ug/L		132.43 ppb	02:53:02
1	Mn 257.610†	1603359.8	1142644.9	2231.5 ug/L		2231.5 ppb	02:52:57
1	Mo 202.031†	36.1	20.1	9.2326 ug/L		9.2326 ppb	02:53:22
1	Ni 231.604†	1475.8	975.3	47.293 ug/L		47.293 ppb	02:53:22
1	P 214.914†	2359.5	1467.8	1415.8 ug/L		1415.8 ppb	02:53:22
1	Pb 220.353†	498.5	417.4	104.14 ug/L		104.14 ppb	02:53:22
1	S 181.975 Axial†	735.1	488.7	1191.2 ug/L		1191.2 ppb	02:53:22
1	Sb 206.836†	47.9	-4.3	-12.188 ug/L		-12.188 ppb	02:53:22
1	Se 196.026†	-304.8	-191.8	2.6169 ug/L		2.6169 ppb	02:53:22
1	Si 251.611†	860211.1	612672.0	34285 ug/L		34285 ppb	02:52:57
1	Sn 189.927†	-93.2	-77.1	-12.085 ug/L		-12.085 ppb	02:53:22
1	Ti 334.940†	1152268.1	822907.6	2192.1 ug/L		2192.1 ppb	02:52:57
1	Tl 190.801†	-113.1	-53.6	-2.1960 ug/L		-2.1960 ppb	02:53:22
1	U 409.014†	-7958.7	-2934.1	-170.03 ug/L		-170.03 ppb	02:52:57
1	V 292.402†	10041.2	8745.0	101.86 ug/L		101.86 ppb	02:53:02
1	Zn 213.857†	38820.6	27023.8	466.83 ug/L		466.83 ppb	02:53:02
1	SiO2†	863119.1	614744.7	73486 ug/L		73486 ppb	02:54:31
2	Sc Radial	3970.4	3970.4	126 %			02:52:25
2	Y RADIAL	5382.5	5382.5	156.8 %			02:52:05
2	Al 396.153Radial†	51788.4	41095.9	54044 ug/L		54044 ppb	02:52:05
2	Ca 317.933Radial†	12932.5	10222.4	24128 ug/L		24128 ppb	02:52:05
2	Fe 238.204 Radial†	6087.3	4813.8	78716 ug/L		78716 ppb	02:52:05
2	K 766.490 Radial†	63160.0	47188.1	11825 ug/L		11825 ppb	02:52:05
2	Mg 279.077 IEC†	271.2	213.3	11180 ug/L		11180 ppb	02:52:25
2	Na 589.592 Radial†	14283.8	11918.0	6781.3 ug/L		6781.3 ppb	02:52:05
2	Sr 421.552†	18944.0	14968.3	190.37 ug/L		190.37 ppb	02:52:05
2	Sc 361.383	696007.1	696007.1	140.42 %			02:53:28
2	Y 371.029	649006.8	649006.8	156.80 %			02:53:28
2	Ag 328.068†	-3769.2	-2804.7	1.3326 ug/L		1.3326 ppb	02:53:34
2	As 188.979†	-32.3	-0.4	37.072 ug/L		37.072 ppb	02:53:54
2	B 249.677†	1687.0	1609.3	49.328 ug/L		49.328 ppb	02:53:34
2	Ba 233.527†	49188.6	35036.6	507.50 ug/L		507.50 ppb	02:53:34
2	Be 313.107†	1731.3	5123.6	8.1220 ug/L		8.1220 ppb	02:53:34
2	Cd 226.502†	360.8	459.7	2.1998 ug/L		2.1998 ppb	02:53:54
2	Co 228.616†	660.9	528.4	13.936 ug/L		13.936 ppb	02:53:54
2	Cr 267.716†	3333.0	2297.3	59.575 ug/L		59.575 ppb	02:53:54
2	Cu 324.752†	42423.3	24987.9	132.61 ug/L		132.61 ppb	02:53:34
2	Mn 257.610†	1602301.9	1140634.8	2227.6 ug/L		2227.6 ppb	02:53:28
2	Mo 202.031†	33.7	18.4	8.9746 ug/L		8.9746 ppb	02:53:54
2	Ni 231.604†	1475.3	973.7	47.218 ug/L		47.218 ppb	02:53:54

2	P 214.914†	2362.0	1467.7	1415.9 ug/L	1415.9 ppb	02:53:54
2	Pb 220.353†	511.5	426.3	106.34 ug/L	106.34 ppb	02:53:54
2	S 181.975 Axial†	746.3	496.1	1209.4 ug/L	1209.4 ppb	02:53:54
2	Sb 206.836†	58.9	3.4	-7.4446 ug/L	-7.4446 ppb	02:53:54
2	Se 196.026†	-307.5	-193.5	0.2923 ug/L	0.2923 ppb	02:53:54
2	Si 251.611†	858922.4	611080.0	34196 ug/L	34196 ppb	02:53:28
2	Sn 189.927†	-90.9	-75.4	-11.535 ug/L	-11.535 ppb	02:53:54
2	Ti 334.940†	1151648.5	821563.3	2188.5 ug/L	2188.5 ppb	02:53:28
2	Tl 190.801†	-103.7	-46.8	1.6562 ug/L	1.6562 ppb	02:53:54
2	U 409.014†	-8017.9	-2970.0	-171.97 ug/L	-171.97 ppb	02:53:28
2	V 292.402†	9971.8	8687.7	101.12 ug/L	101.12 ppb	02:53:34
2	Zn 213.857†	38846.6	27011.9	466.65 ug/L	466.65 ppb	02:53:34
2	SiO2†	852572.5	606557.6	72507 ug/L	72507 ppb	02:54:37
3	Sc Radial	3982.5	3982.5	127 %		02:52:50
3	Y RADIAL	5241.5	5241.5	152.7 %		02:52:30
3	Al 396.153Radial†	50672.0	40089.6	52721 ug/L	52721 ppb	02:52:30
3	Ca 317.933Radial†	12690.3	9999.9	23603 ug/L	23603 ppb	02:52:30
3	Fe 238.204 Radial†	5947.3	4688.5	76668 ug/L	76668 ppb	02:52:30
3	K 766.490 Radial†	61984.5	46107.8	11554 ug/L	11554 ppb	02:52:30
3	Mg 279.077 IEC†	273.5	214.4	11242 ug/L	11242 ppb	02:52:50
3	Na 589.592 Radial†	13987.0	11649.3	6628.3 ug/L	6628.3 ppb	02:52:30
3	Sr 421.552†	18507.2	14577.9	185.40 ug/L	185.40 ppb	02:52:30
3	Sc 361.383	685655.2	685655.2	138.33 %		02:53:59
3	Y 371.029	640029.9	640029.9	154.63 %		02:53:59
3	Ag 328.068†	-3877.9	-2923.7	-0.2836 ug/L	-0.2836 ppb	02:54:05
3	As 188.979†	-37.8	-4.7	33.234 ug/L	33.234 ppb	02:54:25
3	B 249.677†	1610.7	1572.3	48.229 ug/L	48.229 ppb	02:54:05
3	Ba 233.527†	49053.7	35468.0	513.65 ug/L	513.65 ppb	02:54:05
3	Be 313.107†	1802.6	5193.7	8.1673 ug/L	8.1673 ppb	02:54:05
3	Cd 226.502†	365.5	467.1	2.5783 ug/L	2.5783 ppb	02:54:25
3	Co 228.616†	673.6	544.7	14.565 ug/L	14.565 ppb	02:54:25
3	Cr 267.716†	3328.9	2330.1	60.086 ug/L	60.086 ppb	02:54:25
3	Cu 324.752†	42258.4	25324.8	134.23 ug/L	134.23 ppb	02:54:05
3	Mn 257.610†	1578890.5	1140938.5	2228.0 ug/L	2228.0 ppb	02:53:59
3	Mo 202.031†	31.8	17.4	8.6730 ug/L	8.6730 ppb	02:54:25
3	Ni 231.604†	1505.9	1011.8	49.062 ug/L	49.062 ppb	02:54:25
3	P 214.914†	2392.5	1515.2	1465.1 ug/L	1465.1 ppb	02:54:25
3	Pb 220.353†	527.7	443.5	110.23 ug/L	110.23 ppb	02:54:25
3	S 181.975 Axial†	762.1	515.6	1257.5 ug/L	1257.5 ppb	02:54:25
3	Sb 206.836†	49.0	-3.0	-11.335 ug/L	-11.335 ppb	02:54:25
3	Se 196.026†	-304.9	-194.9	-7.1407 ug/L	-7.1407 ppb	02:54:25
3	Si 251.611†	844763.7	610079.8	34140 ug/L	34140 ppb	02:53:59
3	Sn 189.927†	-89.5	-75.3	-11.861 ug/L	-11.861 ppb	02:54:25
3	Ti 334.940†	1134991.1	821904.0	2189.3 ug/L	2189.3 ppb	02:53:59
3	Tl 190.801†	-107.2	-50.4	-0.4210 ug/L	-0.4210 ppb	02:54:25
3	U 409.014†	-7749.1	-2861.9	-165.82 ug/L	-165.82 ppb	02:53:59
3	V 292.402†	9903.0	8745.2	102.19 ug/L	102.19 ppb	02:54:05
3	Zn 213.857†	38743.8	27355.2	473.03 ug/L	473.03 ppb	02:54:05
3	SiO2†	863170.4	623385.3	74519 ug/L	74519 ppb	02:54:43

Mean Data: 248198004|959127|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	692301.4	139.67 %	1.164			0.83%
Sc Radial	3976.7	126 %	0.2			0.15%
Y 371.029	645708.2	156.01 %	1.193			0.76%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 156.0%						
Y RADIAL	5321.0	155.0 %	2.10			1.36%
Ag 328.068†	-2886.7	0.4623 ug/L	0.81527	0.4623 ppb	0.81527	176.35%
Al 396.153Radial†	40671.0	53485 ug/L	685.2	53485 ppb	685.2	1.28%
As 188.979†	-3.9	34.182 ug/L	2.5523	34.182 ppb	2.5523	7.47%
B 249.677†	1609.6	49.439 ug/L	1.2694	49.439 ppb	1.2694	2.57%
Ba 233.527†	35144.0	509.03 ug/L	4.081	509.03 ppb	4.081	0.80%
Be 313.107†	5121.3	8.1240 ug/L	0.04235	8.1240 ppb	0.04235	0.52%
Ca 317.933Radial†	10153.2	23964 ug/L	313.7	23964 ppb	313.7	1.31%
Cd 226.502†	458.8	2.2437 ug/L	0.31492	2.2437 ppb	0.31492	14.04%
Co 228.616†	536.1	14.228 ug/L	0.3170	14.228 ppb	0.3170	2.23%
Cr 267.716†	2316.5	59.936 ug/L	0.3139	59.936 ppb	0.3139	0.52%
Cu 324.752†	25088.0	133.09 ug/L	0.990	133.09 ppb	0.990	0.74%
Fe 238.204 Radial†	4775.8	78095 ug/L	1239.5	78095 ppb	1239.5	1.59%

K 766.490 Radial†	46861.4	11743 ug/L	164.0	11743 ppb	164.0	1.40%
Mg 279.077 IEC†	214.5	11245 ug/L	67.0	11245 ppb	67.0	0.60%
Mn 257.610†	1141406.1	2229.0 ug/L	2.16	2229.0 ppb	2.16	0.10%
Mo 202.031†	18.7	8.9601 ug/L	0.28010	8.9601 ppb	0.28010	3.13%
Na 589.592 Radial†	11827.4	6729.7 ug/L	87.76	6729.7 ppb	87.76	1.30%
Ni 231.604†	986.9	47.858 ug/L	1.0438	47.858 ppb	1.0438	2.18%
P 214.914†	1483.6	1432.2 ug/L	28.44	1432.2 ppb	28.44	1.99%
Pb 220.353†	429.1	106.90 ug/L	3.084	106.90 ppb	3.084	2.89%
S 181.975 Axial†	500.2	1219.4 ug/L	34.25	1219.4 ppb	34.25	2.81%
Sb 206.836†	-1.3	-10.323 ug/L	2.5287	-10.323 ppb	2.5287	24.50%
Se 196.026†	-193.4	-1.4105 ug/L	5.09676	-1.4105 ppb	5.09676	361.34%
Si 251.611†	611277.3	34207 ug/L	73.2	34207 ppb	73.2	0.21%
Sn 189.927†	-76.0	-11.827 ug/L	0.2766	-11.827 ppb	0.2766	2.34%
Sr 421.552†	14800.5	188.23 ug/L	2.555	188.23 ppb	2.555	1.36%
Ti 334.940†	822125.0	2190.0 ug/L	1.87	2190.0 ppb	1.87	0.09%
Tl 190.801†	-50.3	-0.3203 ug/L	1.92806	-0.3203 ppb	1.92806	602.02%
U 409.014†	-2922.0	-169.27 ug/L	3.148	-169.27 ppb	3.148	1.86%
V 292.402†	8726.0	101.72 ug/L	0.547	101.72 ppb	0.547	0.54%
Zn 213.857†	27130.3	468.84 ug/L	3.632	468.84 ppb	3.632	0.77%
SiO2†	614895.9	73504 ug/L	1005.9	73504 ppb	1005.9	1.37%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 79

Sample ID: 248198005|959127|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 100

Date Collected: 3/30/2010 02:56:54

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248198005|959127|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4070.6	4070.6	129 %		02:59:08
1	Y RADIAL	4977.5	4977.5	145.0 %		02:59:08
1	Al 396.153Radial†	63444.3	49088.2	64554 ug/L	64554 ppb	02:58:48
1	Ca 317.933Radial†	16288.9	12562.4	29651 ug/L	29651 ppb	02:58:48
1	Fe 238.204 Radial†	8217.9	6340.6	103680 ug/L	103680 ppb	02:58:48
1	K 766.490 Radial†	97961.0	72834.6	18257 ug/L	18257 ppb	02:58:48
1	Mg 279.077 IEC†	414.4	318.6	16711 ug/L	16711 ppb	02:59:08
1	Na 589.592 Radial†	1620.1	1858.8	1057.6 ug/L	1057.6 ppb	02:58:48
1	Sr 421.552†	20911.0	16118.1	204.96 ug/L	204.96 ppb	02:58:48
1	Sc 361.383	703467.8	703467.8	141.93 %		03:00:06
1	Y 371.029	622251.9	622251.9	150.34 %		03:00:06
1	Ag 328.068†	-4911.3	-3580.9	2.7423 ug/L	2.7423 ppb	03:00:11
1	As 188.979†	-30.3	1.3	54.443 ug/L	54.443 ppb	03:00:31
1	B 249.677†	4540.2	3606.9	122.40 ug/L	122.40 ppb	03:00:11
1	Ba 233.527†	78015.1	54975.9	795.70 ug/L	795.70 ppb	03:00:11
1	Be 313.107†	-3453.4	1457.4	8.5405 ug/L	8.5405 ppb	03:00:11
1	Cd 226.502†	621.9	641.0	3.7079 ug/L	3.7079 ppb	03:00:31
1	Co 228.616†	1231.5	925.4	25.840 ug/L	25.840 ppb	03:00:31
1	Cr 267.716†	3773.8	2582.7	68.624 ug/L	68.624 ppb	03:00:31
1	Cu 324.752†	20971.3	9552.8	54.618 ug/L	54.618 ppb	03:00:11
1	Mn 257.610†	3680372.1	2592706.8	5056.3 ug/L	5056.3 ppb	03:00:06
1	Mo 202.031†	41.0	23.3	11.666 ug/L	11.666 ppb	03:00:31
1	Ni 231.604†	1585.9	1040.5	50.449 ug/L	50.449 ppb	03:00:31
1	P 214.914†	2535.8	1572.3	1520.4 ug/L	1520.4 ppb	03:00:31
1	Pb 220.353†	710.3	562.5	138.67 ug/L	138.67 ppb	03:00:31
1	S 181.975 Axial†	763.4	502.6	1223.2 ug/L	1223.2 ppb	03:00:31
1	Sb 206.836†	66.6	8.4	-8.7289 ug/L	-8.7289 ppb	03:00:31
1	Se 196.026†	-410.8	-263.9	-11.925 ug/L	-11.925 ppb	03:00:31
1	Si 251.611†	938136.2	660405.6	36956 ug/L	36956 ppb	03:00:06
1	Sn 189.927†	-107.9	-86.7	-11.317 ug/L	-11.317 ppb	03:00:31
1	Ti 334.940†	1793360.9	1265005.1	3368.7 ug/L	3368.7 ppb	03:00:06
1	Tl 190.801†	-165.0	-89.2	0.5200 ug/L	0.5200 ppb	03:00:31
1	U 409.014†	-6665.4	-1956.5	-119.25 ug/L	-119.25 ppb	03:00:11
1	V 292.402†	16767.2	13400.3	158.83 ug/L	158.83 ppb	03:00:11
1	Zn 213.857†	48791.5	33725.5	582.03 ug/L	582.03 ppb	03:00:11
1	SiO2†	935440.2	658505.6	78717 ug/L	78717 ppb	03:01:42
2	Sc Radial	4112.7	4112.7	131 %		02:59:33
2	Y RADIAL	5031.6	5031.6	146.6 %		02:59:33
2	Al 396.153Radial†	64584.6	49458.3	65041 ug/L	65041 ppb	02:59:13
2	Ca 317.933Radial†	16513.0	12605.0	29751 ug/L	29751 ppb	02:59:13
2	Fe 238.204 Radial†	8360.2	6384.4	104400 ug/L	104400 ppb	02:59:13
2	K 766.490 Radial†	99372.5	73139.1	18334 ug/L	18334 ppb	02:59:13
2	Mg 279.077 IEC†	421.5	320.7	16825 ug/L	16825 ppb	02:59:33
2	Na 589.592 Radial†	1734.1	1933.1	1099.9 ug/L	1099.9 ppb	02:59:13
2	Sr 421.552†	21420.9	16342.6	207.82 ug/L	207.82 ppb	02:59:13
2	Sc 361.383	688293.1	688293.1	138.87 %		03:00:38
2	Y 371.029	608807.9	608807.9	147.09 %		03:00:38
2	Ag 328.068†	-4794.6	-3573.2	3.0452 ug/L	3.0452 ppb	03:00:43
2	As 188.979†	-43.4	-8.7	46.895 ug/L	46.895 ppb	03:01:03
2	B 249.677†	4515.3	3659.5	124.30 ug/L	124.30 ppb	03:00:43
2	Ba 233.527†	77487.3	55807.7	807.71 ug/L	807.71 ppb	03:00:43
2	Be 313.107†	-3225.7	1567.8	8.6148 ug/L	8.6148 ppb	03:00:43
2	Cd 226.502†	625.9	653.5	3.9148 ug/L	3.9148 ppb	03:01:03
2	Co 228.616†	1271.2	973.1	27.582 ug/L	27.582 ppb	03:01:03
2	Cr 267.716†	3782.2	2647.4	70.143 ug/L	70.143 ppb	03:01:03
2	Cu 324.752†	20597.6	9609.5	54.952 ug/L	54.952 ppb	03:00:43
2	Mn 257.610†	3613016.9	2601373.8	5073.3 ug/L	5073.3 ppb	03:00:38
2	Mo 202.031†	35.8	20.2	11.286 ug/L	11.286 ppb	03:01:03
2	Ni 231.604†	1605.3	1079.1	52.320 ug/L	52.320 ppb	03:01:03

2	P 214.914†	2556.5	1626.7	1575.1 ug/L	1575.1 ppb	03:01:03
2	Pb 220.353†	736.3	592.3	145.70 ug/L	145.70 ppb	03:01:03
2	S 181.975 Axial†	764.5	515.2	1254.2 ug/L	1254.2 ppb	03:01:03
2	Sb 206.836†	72.3	13.6	-5.6708 ug/L	-5.6708 ppb	03:01:03
2	Se 196.026†	-401.5	-263.7	-9.5686 ug/L	-9.5686 ppb	03:01:03
2	Si 251.611†	917195.6	659898.9	36928 ug/L	36928 ppb	03:00:38
2	Sn 189.927†	-119.1	-96.4	-14.560 ug/L	-14.560 ppb	03:01:03
2	Ti 334.940†	1756125.6	1266049.2	3371.5 ug/L	3371.5 ppb	03:00:38
2	Tl 190.801†	-158.7	-87.2	1.7324 ug/L	1.7324 ppb	03:01:03
2	U 409.014†	-6782.1	-2144.1	-129.62 ug/L	-129.62 ppb	03:00:43
2	V 292.402†	16665.3	13587.3	161.17 ug/L	161.17 ppb	03:00:43
2	Zn 213.857†	48279.6	34114.8	588.81 ug/L	588.81 ppb	03:00:43
2	SiO2†	920798.6	662493.0	79194 ug/L	79194 ppb	03:01:48
3	Sc Radial	4139.1	4139.1	132 %		02:59:58
3	Y RADIAL	5072.8	5072.8	147.8 %		02:59:58
3	Al 396.153Radial†	64831.8	49331.5	64874 ug/L	64874 ppb	02:59:38
3	Ca 317.933Radial†	16675.1	12647.6	29852 ug/L	29852 ppb	02:59:38
3	Fe 238.204 Radial†	8434.3	6399.9	104650 ug/L	104650 ppb	02:59:38
3	K 766.490 Radial†	99814.5	72990.8	18296 ug/L	18296 ppb	02:59:38
3	Mg 279.077 IEC†	422.8	319.6	16767 ug/L	16767 ppb	02:59:58
3	Na 589.592 Radial†	1737.4	1927.2	1096.5 ug/L	1096.5 ppb	02:59:38
3	Sr 421.552†	21468.1	16274.1	206.95 ug/L	206.95 ppb	02:59:38
3	Sc 361.383	691694.2	691694.2	139.55 %		03:01:10
3	Y 371.029	612631.5	612631.5	148.01 %		03:01:10
3	Ag 328.068†	-4784.8	-3549.2	3.3198 ug/L	3.3198 ppb	03:01:15
3	As 188.979†	-36.8	-3.8	50.715 ug/L	50.715 ppb	03:01:35
3	B 249.677†	4510.0	3639.7	123.50 ug/L	123.50 ppb	03:01:15
3	Ba 233.527†	77498.9	55541.6	803.89 ug/L	803.89 ppb	03:01:15
3	Be 313.107†	-3273.5	1544.9	8.5934 ug/L	8.5934 ppb	03:01:15
3	Cd 226.502†	625.2	650.8	3.8283 ug/L	3.8283 ppb	03:01:35
3	Co 228.616†	1262.5	962.4	27.192 ug/L	27.192 ppb	03:01:35
3	Cr 267.716†	3785.1	2636.0	69.918 ug/L	69.918 ppb	03:01:35
3	Cu 324.752†	20775.5	9664.0	55.246 ug/L	55.246 ppb	03:01:15
3	Mn 257.610†	3623244.5	2595909.3	5062.7 ug/L	5062.7 ppb	03:01:10
3	Mo 202.031†	45.7	27.2	12.287 ug/L	12.287 ppb	03:01:35
3	Ni 231.604†	1627.5	1089.4	52.819 ug/L	52.819 ppb	03:01:35
3	P 214.914†	2573.1	1629.5	1577.6 ug/L	1577.6 ppb	03:01:35
3	Pb 220.353†	730.3	585.4	144.02 ug/L	144.02 ppb	03:01:35
3	S 181.975 Axial†	775.0	520.0	1266.0 ug/L	1266.0 ppb	03:01:35
3	Sb 206.836†	62.3	6.1	-10.171 ug/L	-10.171 ppb	03:01:35
3	Se 196.026†	-396.5	-258.6	-3.1024 ug/L	-3.1024 ppb	03:01:35
3	Si 251.611†	921603.4	659809.7	36923 ug/L	36923 ppb	03:01:10
3	Sn 189.927†	-116.4	-94.0	-13.682 ug/L	-13.682 ppb	03:01:35
3	Ti 334.940†	1763115.8	1264839.9	3368.3 ug/L	3368.3 ppb	03:01:10
3	Tl 190.801†	-172.9	-96.8	-3.8417 ug/L	-3.8417 ppb	03:01:35
3	U 409.014†	-6817.4	-2145.4	-129.72 ug/L	-129.72 ppb	03:01:15
3	V 292.402†	16697.0	13551.1	160.67 ug/L	160.67 ppb	03:01:15
3	Zn 213.857†	48426.0	34048.8	587.60 ug/L	587.60 ppb	03:01:15
3	SiO2†	926369.8	663224.7	79281 ug/L	79281 ppb	03:01:54

Mean Data: 248198005|959127|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	694485.0	140.12 %	1.607			1.15%
Sc Radial	4107.5	131 %	1.1			0.84%
Y 371.029	614563.8	148.48 %	1.674			1.13%
Y RADIAL	5027.3	146.5 %	1.39			0.95%
Ag 328.068†	-3567.7	3.0358 ug/L	0.28885	3.0358 ppb	0.28885	9.51%
Al 396.153Radial†	49292.7	64823 ug/L	247.3	64823 ppb	247.3	0.38%
As 188.979†	-3.7	50.685 ug/L	3.7743	50.685 ppb	3.7743	7.45%
B 249.677†	3635.4	123.40 ug/L	0.958	123.40 ppb	0.958	0.78%
Ba 233.527†	55441.7	802.43 ug/L	6.137	802.43 ppb	6.137	0.76%
Be 313.107†	1523.4	8.5829 ug/L	0.03827	8.5829 ppb	0.03827	0.45%
Ca 317.933Radial†	12605.0	29751 ug/L	100.6	29751 ppb	100.6	0.34%
Cd 226.502†	648.5	3.8170 ug/L	0.10391	3.8170 ppb	0.10391	2.72%
Co 228.616†	953.7	26.872 ug/L	0.9140	26.872 ppb	0.9140	3.40%
Cr 267.716†	2622.1	69.562 ug/L	0.8199	69.562 ppb	0.8199	1.18%
Cu 324.752†	9608.7	54.939 ug/L	0.3144	54.939 ppb	0.3144	0.57%
Fe 238.204 Radial†	6375.0	104250 ug/L	503.5	104250 ppb	503.5	0.48%
K 766.490 Radial†	72988.2	18296 ug/L	38.2	18296 ppb	38.2	0.21%

Mg 279.077 IEC†	319.6	16768 ug/L	57.0	16768 ppb	57.0	0.34%
Mn 257.610†	2596663.3	5064.1 ug/L	8.56	5064.1 ppb	8.56	0.17%
Mo 202.031†	23.6	11.746 ug/L	0.5051	11.746 ppb	0.5051	4.30%
Na 589.592 Radial†	1906.4	1084.7 ug/L	23.50	1084.7 ppb	23.50	2.17%
Ni 231.604†	1069.7	51.863 ug/L	1.2493	51.863 ppb	1.2493	2.41%
P 214.914†	1609.5	1557.7 ug/L	32.33	1557.7 ppb	32.33	2.08%
Pb 220.353†	580.1	142.80 ug/L	3.674	142.80 ppb	3.674	2.57%
S 181.975 Axial†	512.6	1247.8 ug/L	22.09	1247.8 ppb	22.09	1.77%
Sb 206.836†	9.4	-8.1901 ug/L	2.29785	-8.1901 ppb	2.29785	28.06%
Se 196.026†	-262.1	-8.1988 ug/L	4.56821	-8.1988 ppb	4.56821	55.72%
Si 251.611†	660038.1	36935 ug/L	18.0	36935 ppb	18.0	0.05%
Sn 189.927†	-92.4	-13.187 ug/L	1.6775	-13.187 ppb	1.6775	12.72%
Sr 421.552†	16244.9	206.58 ug/L	1.464	206.58 ppb	1.464	0.71%
Ti 334.940†	1265298.1	3369.5 ug/L	1.74	3369.5 ppb	1.74	0.05%
Tl 190.801†	-91.1	-0.5298 ug/L	2.93156	-0.5298 ppb	2.93156	553.37%
U 409.014†	-2082.0	-126.20 ug/L	6.017	-126.20 ppb	6.017	4.77%
V 292.402†	13512.9	160.22 ug/L	1.234	160.22 ppb	1.234	0.77%
Zn 213.857†	33963.1	586.14 ug/L	3.617	586.14 ppb	3.617	0.62%
SiO2†	661407.7	79064 ug/L	303.6	79064 ppb	303.6	0.38%

Sequence No.: 80

Sample ID: 248198006|959127|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 101

Date Collected: 3/30/2010 03:04:05

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248198006|959127|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3962.9	3962.9	126 %		03:06:18
1	Y RADIAL	4889.1	4889.1	142.4 %		03:05:58
1	Al 396.153Radial†	41315.0	32864.6	43219 ug/L	43219 ppb	03:05:58
1	Ca 317.933Radial†	7496.1	5928.8	13994 ug/L	13994 ppb	03:05:58
1	Fe 238.204 Radial†	5255.5	4163.0	68074 ug/L	68074 ppb	03:05:58
1	K 766.490 Radial†	41196.7	29858.5	7483.6 ug/L	7483.6 ppb	03:05:58
1	Mg 279.077 IEC†	168.5	132.2	6911.0 ug/L	6911.0 ppb	03:06:18
1	Na 589.592 Radial†	1680.1	1940.4	1104.1 ug/L	1104.1 ppb	03:05:58
1	Sr 421.552†	12638.0	9994.0	127.12 ug/L	127.12 ppb	03:05:58
1	Sc 361.383	680082.8	680082.8	137.21 %		03:07:16
1	Y 371.029	578951.4	578951.4	139.88 %		03:07:16
1	Ag 328.068†	-3280.6	-2511.4	0.5653 ug/L	0.5653 ppb	03:07:21
1	As 188.979†	-40.8	-7.1	32.295 ug/L	32.295 ppb	03:07:41
1	B 249.677†	1029.0	1157.9	33.604 ug/L	33.604 ppb	03:07:21
1	Ba 233.527†	43944.1	32034.7	463.91 ug/L	463.91 ppb	03:07:21
1	Be 313.107†	-9228.6	-2835.3	3.9904 ug/L	3.9904 ppb	03:07:21
1	Cd 226.502†	251.2	385.9	1.6507 ug/L	1.6507 ppb	03:07:41
1	Co 228.616†	830.4	662.9	18.283 ug/L	18.283 ppb	03:07:41
1	Cr 267.716†	5163.4	3686.9	89.280 ug/L	89.280 ppb	03:07:41
1	Cu 324.752†	13333.3	4494.2	26.751 ug/L	26.751 ppb	03:07:21
1	Mn 257.610†	1480433.3	1078533.8	2105.8 ug/L	2105.8 ppb	03:07:16
1	Mo 202.031†	13.7	4.4	6.0692 ug/L	6.0692 ppb	03:07:41
1	Ni 231.604†	1471.2	995.4	48.265 ug/L	48.265 ppb	03:07:41
1	P 214.914†	1220.4	675.1	637.20 ug/L	637.20 ppb	03:07:41
1	Pb 220.353†	326.4	299.9	74.873 ug/L	74.873 ppb	03:07:41
1	S 181.975 Axial†	488.2	320.5	779.67 ug/L	779.67 ppb	03:07:41
1	Sb 206.836†	57.2	3.2	-8.3019 ug/L	-8.3019 ppb	03:07:41
1	Se 196.026†	-262.1	-165.5	1.3955 ug/L	1.3955 ppb	03:07:41
1	Si 251.611†	889212.0	647477.8	36232 ug/L	36232 ppb	03:07:16
1	Sn 189.927†	-78.5	-67.8	-12.382 ug/L	-12.382 ppb	03:07:41
1	Ti 334.940†	1301432.7	949931.1	2529.0 ug/L	2529.0 ppb	03:07:16
1	Tl 190.801†	-109.9	-53.0	0.3284 ug/L	0.3284 ppb	03:07:41
1	U 409.014†	-6582.4	-2057.5	-120.79 ug/L	-120.79 ppb	03:07:21
1	V 292.402†	9555.1	8550.2	100.47 ug/L	100.47 ppb	03:07:21
1	Zn 213.857†	20633.8	14386.0	244.53 ug/L	244.53 ppb	03:07:21
1	SiO2†	899552.5	655013.6	78300 ug/L	78300 ppb	03:08:49
2	Sc Radial	3964.9	3964.9	126 %		03:06:43
2	Y RADIAL	4694.2	4694.2	136.8 %		03:06:23
2	Al 396.153Radial†	40038.9	31835.8	41866 ug/L	41866 ppb	03:06:23
2	Ca 317.933Radial†	7273.2	5749.0	13569 ug/L	13569 ppb	03:06:23
2	Fe 238.204 Radial†	5120.1	4053.4	66283 ug/L	66283 ppb	03:06:23
2	K 766.490 Radial†	40005.5	28897.1	7242.6 ug/L	7242.6 ppb	03:06:23
2	Mg 279.077 IEC†	167.6	131.4	6868.9 ug/L	6868.9 ppb	03:06:43
2	Na 589.592 Radial†	1597.0	1873.8	1066.2 ug/L	1066.2 ppb	03:06:23
2	Sr 421.552†	12184.3	9629.1	122.48 ug/L	122.48 ppb	03:06:23
2	Sc 361.383	690263.1	690263.1	139.26 %		03:07:47
2	Y 371.029	586347.1	586347.1	141.66 %		03:07:47
2	Ag 328.068†	-3223.6	-2435.2	0.6466 ug/L	0.6466 ppb	03:07:52
2	As 188.979†	-48.8	-12.4	27.770 ug/L	27.770 ppb	03:08:12
2	B 249.677†	1046.4	1159.3	33.951 ug/L	33.951 ppb	03:07:52
2	Ba 233.527†	44631.2	32055.6	464.16 ug/L	464.16 ppb	03:07:52
2	Be 313.107†	-9330.9	-2809.5	4.0146 ug/L	4.0146 ppb	03:07:52
2	Cd 226.502†	235.3	371.8	1.5177 ug/L	1.5177 ppb	03:08:12
2	Co 228.616†	836.3	658.2	18.130 ug/L	18.130 ppb	03:08:12
2	Cr 267.716†	5131.5	3608.5	87.347 ug/L	87.347 ppb	03:08:12
2	Cu 324.752†	13593.3	4537.6	26.877 ug/L	26.877 ppb	03:07:52
2	Mn 257.610†	1503215.8	1078980.1	2106.5 ug/L	2106.5 ppb	03:07:47
2	Mo 202.031†	14.8	5.1	6.0170 ug/L	6.0170 ppb	03:08:12
2	Ni 231.604†	1477.6	984.2	47.721 ug/L	47.721 ppb	03:08:12

2	P 214.914†	1220.5	662.1	625.04 ug/L	625.04 ppb	03:08:12
2	Pb 220.353†	297.6	275.8	69.028 ug/L	69.028 ppb	03:08:12
2	S 181.975 Axial†	486.1	313.7	763.33 ug/L	763.33 ppb	03:08:12
2	Sb 206.836†	53.0	-0.4	-10.454 ug/L	-10.454 ppb	03:08:12
2	Se 196.026†	-245.3	-150.7	13.421 ug/L	13.421 ppb	03:08:12
2	Si 251.611†	904840.9	649142.4	36326 ug/L	36326 ppb	03:07:47
2	Sn 189.927†	-77.5	-66.3	-12.163 ug/L	-12.163 ppb	03:08:12
2	Ti 334.940†	1322823.0	951301.8	2532.6 ug/L	2532.6 ppb	03:07:47
2	Tl 190.801†	-113.2	-54.2	-0.3286 ug/L	-0.3286 ppb	03:08:12
2	U 409.014†	-6573.6	-1980.5	-116.35 ug/L	-116.35 ppb	03:07:52
2	V 292.402†	9699.4	8551.2	100.74 ug/L	100.74 ppb	03:07:52
2	Zn 213.857†	20985.0	14416.4	245.34 ug/L	245.34 ppb	03:07:52
2	SiO2†	905648.1	649721.5	77667 ug/L	77667 ppb	03:08:55
3	Sc Radial	3940.7	3940.7	125 %		03:07:08
3	Y RADIAL	4809.9	4809.9	140.1 %		03:06:48
3	Al 396.153Radial†	40957.7	32763.6	43086 ug/L	43086 ppb	03:06:48
3	Ca 317.933Radial†	7424.8	5905.4	13938 ug/L	13938 ppb	03:06:48
3	Fe 238.204 Radial†	5182.6	4128.3	67507 ug/L	67507 ppb	03:06:48
3	K 766.490 Radial†	40697.7	29644.0	7429.9 ug/L	7429.9 ppb	03:06:48
3	Mg 279.077 IEC†	171.7	135.5	7083.3 ug/L	7083.3 ppb	03:07:08
3	Na 589.592 Radial†	1612.6	1894.1	1077.7 ug/L	1077.7 ppb	03:06:48
3	Sr 421.552†	12455.2	9904.4	125.98 ug/L	125.98 ppb	03:06:48
3	Sc 361.383	683645.2	683645.2	137.93 %		03:08:18
3	Y 371.029	581600.1	581600.1	140.52 %		03:08:18
3	Ag 328.068†	-3270.6	-2491.7	0.5472 ug/L	0.5472 ppb	03:08:23
3	As 188.979†	-51.3	-14.5	26.388 ug/L	26.388 ppb	03:08:43
3	B 249.677†	980.5	1118.8	32.186 ug/L	32.186 ppb	03:08:23
3	Ba 233.527†	43988.1	31899.7	461.95 ug/L	461.95 ppb	03:08:23
3	Be 313.107†	-9084.8	-2695.9	4.0761 ug/L	4.0761 ppb	03:08:23
3	Cd 226.502†	257.7	389.7	1.7956 ug/L	1.7956 ppb	03:08:43
3	Co 228.616†	844.4	670.0	18.549 ug/L	18.549 ppb	03:08:43
3	Cr 267.716†	5188.7	3685.6	89.188 ug/L	89.188 ppb	03:08:43
3	Cu 324.752†	13433.7	4516.4	26.830 ug/L	26.830 ppb	03:08:23
3	Mn 257.610†	1487532.1	1078058.2	2104.8 ug/L	2104.8 ppb	03:08:18
3	Mo 202.031†	14.2	4.7	6.0610 ug/L	6.0610 ppb	03:08:43
3	Ni 231.604†	1489.3	1002.9	48.630 ug/L	48.630 ppb	03:08:43
3	P 214.914†	1218.2	668.9	631.27 ug/L	631.27 ppb	03:08:43
3	Pb 220.353†	318.8	293.2	73.310 ug/L	73.310 ppb	03:08:43
3	S 181.975 Axial†	490.7	320.4	779.49 ug/L	779.49 ppb	03:08:43
3	Sb 206.836†	51.5	-1.1	-10.954 ug/L	-10.954 ppb	03:08:43
3	Se 196.026†	-258.9	-162.2	3.6396 ug/L	3.6396 ppb	03:08:43
3	Si 251.611†	892759.7	646673.0	36187 ug/L	36187 ppb	03:08:18
3	Sn 189.927†	-79.0	-67.9	-12.488 ug/L	-12.488 ppb	03:08:43
3	Ti 334.940†	1308201.9	949896.4	2528.9 ug/L	2528.9 ppb	03:08:18
3	Tl 190.801†	-112.0	-54.2	-0.3380 ug/L	-0.3380 ppb	03:08:43
3	U 409.014†	-6406.8	-1905.2	-112.37 ug/L	-112.37 ppb	03:08:23
3	V 292.402†	9593.1	8541.5	100.45 ug/L	100.45 ppb	03:08:23
3	Zn 213.857†	20676.2	14338.4	243.77 ug/L	243.77 ppb	03:08:23
3	SiO2†	896673.5	649510.1	77642 ug/L	77642 ppb	03:09:01

Mean Data: 248198006|959127|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Sc 361.383	684663.7	138.13 %		1.042			0.75%
Sc Radial	3956.2	126 %		0.4			0.34%
Y 371.029	582299.5	140.69 %		0.905			0.64%
Y RADIAL	4797.8	139.8 %		2.86			2.04%
Ag 328.068†	-2479.4	0.5864 ug/L		0.05298	0.5864 ppb	0.05298	9.04%
Al 396.153Radial†	32488.0	42724 ug/L		745.7	42724 ppb	745.7	1.75%
As 188.979†	-11.4	28.818 ug/L		3.0898	28.818 ppb	3.0898	10.72%
B 249.677†	1145.4	33.247 ug/L		0.9351	33.247 ppb	0.9351	2.81%
Ba 233.527†	31996.7	463.34 ug/L		1.211	463.34 ppb	1.211	0.26%
Be 313.107†	-2780.2	4.0271 ug/L		0.04419	4.0271 ppb	0.04419	1.10%
Ca 317.933Radial†	5861.1	13834 ug/L		230.7	13834 ppb	230.7	1.67%
Cd 226.502†	382.5	1.6547 ug/L		0.13899	1.6547 ppb	0.13899	8.40%
Co 228.616†	663.7	18.321 ug/L		0.2119	18.321 ppb	0.2119	1.16%
Cr 267.716†	3660.3	88.605 ug/L		1.0905	88.605 ppb	1.0905	1.23%
Cu 324.752†	4516.0	26.819 ug/L		0.0636	26.819 ppb	0.0636	0.24%
Fe 238.204 Radial†	4114.9	67288 ug/L		915.3	67288 ppb	915.3	1.36%
K 766.490 Radial†	29466.5	7385.4 ug/L		126.51	7385.4 ppb	126.51	1.71%

Mg 279.077 IEC†	133.0	6954.4 ug/L	113.61	6954.4 ppb	113.61	1.63%
Mn 257.610†	1078524.0	2105.7 ug/L	0.85	2105.7 ppb	0.85	0.04%
Mo 202.031†	4.7	6.0491 ug/L	0.02809	6.0491 ppb	0.02809	0.46%
Na 589.592 Radial†	1902.7	1082.6 ug/L	19.42	1082.6 ppb	19.42	1.79%
Ni 231.604†	994.2	48.205 ug/L	0.4572	48.205 ppb	0.4572	0.95%
P 214.914†	668.7	631.17 ug/L	6.085	631.17 ppb	6.085	0.96%
Pb 220.353†	289.6	72.404 ug/L	3.0259	72.404 ppb	3.0259	4.18%
S 181.975 Axial†	318.2	774.16 ug/L	9.383	774.16 ppb	9.383	1.21%
Sb 206.836†	0.6	-9.9032 ug/L	1.40908	-9.9032 ppb	1.40908	14.23%
Se 196.026†	-159.5	6.1522 ug/L	6.39457	6.1522 ppb	6.39457	103.94%
Si 251.611†	647764.4	36249 ug/L	70.5	36249 ppb	70.5	0.19%
Sn 189.927†	-67.4	-12.344 ug/L	0.1658	-12.344 ppb	0.1658	1.34%
Sr 421.552†	9842.5	125.19 ug/L	2.419	125.19 ppb	2.419	1.93%
Ti 334.940†	950376.5	2530.2 ug/L	2.11	2530.2 ppb	2.11	0.08%
Tl 190.801†	-53.8	-0.1127 ug/L	0.38205	-0.1127 ppb	0.38205	338.86%
U 409.014†	-1981.0	-116.50 ug/L	4.211	-116.50 ppb	4.211	3.61%
V 292.402†	8547.6	100.55 ug/L	0.165	100.55 ppb	0.165	0.16%
Zn 213.857†	14380.3	244.54 ug/L	0.786	244.54 ppb	0.786	0.32%
SiO2†	651415.1	77869 ug/L	372.7	77869 ppb	372.7	0.48%

Sequence No.: 81

Sample ID: 248198007|959127|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 102

Date Collected: 3/30/2010 03:11:13

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248198007|959127|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3951.8	3951.8	126 %		03:13:27
1	Y RADIAL	5242.9	5242.9	152.8 %		03:13:07
1	Al 396.153Radial†	51804.8	41301.4	54314 ug/L	54314 ppb	03:13:07
1	Ca 317.933Radial†	13512.6	10731.9	25330 ug/L	25330 ppb	03:13:07
1	Fe 238.204 Radial†	6251.8	4967.3	81226 ug/L	81226 ppb	03:13:07
1	K 766.490 Radial†	42120.4	30684.7	7687.0 ug/L	7687.0 ppb	03:13:07
1	Mg 279.077 IEC†	258.6	204.3	10701 ug/L	10701 ppb	03:13:27
1	Na 589.592 Radial†	2213.7	2368.6	1347.7 ug/L	1347.7 ppb	03:13:07
1	Sr 421.552†	18968.6	15058.3	191.50 ug/L	191.50 ppb	03:13:07
1	Sc 361.383	692219.6	692219.6	139.66 %		03:14:24
1	Y 371.029	625802.8	625802.8	151.20 %		03:14:24
1	Ag 328.068†	-3552.6	-2664.2	3.2314 ug/L	3.2314 ppb	03:14:30
1	As 188.979†	-39.1	-5.4	33.561 ug/L	33.561 ppb	03:14:50
1	B 249.677†	912.3	1061.2	27.737 ug/L	27.737 ppb	03:14:30
1	Ba 233.527†	55138.8	39488.9	571.73 ug/L	571.73 ppb	03:14:30
1	Be 313.107†	-897.7	3247.9	6.9090 ug/L	6.9090 ppb	03:14:30
1	Cd 226.502†	408.6	495.4	2.7615 ug/L	2.7615 ppb	03:14:50
1	Co 228.616†	787.2	621.4	17.382 ug/L	17.382 ppb	03:14:50
1	Cr 267.716†	6253.2	4401.2	106.54 ug/L	106.54 ppb	03:14:50
1	Cu 324.752†	81579.5	53190.3	277.60 ug/L	277.60 ppb	03:14:30
1	Mn 257.610†	1438711.4	1029742.0	2012.0 ug/L	2012.0 ppb	03:14:24
1	Mo 202.031†	25.9	12.9	8.4179 ug/L	8.4179 ppb	03:14:50
1	Ni 231.604†	2007.5	1360.6	65.981 ug/L	65.981 ppb	03:14:50
1	P 214.914†	1387.1	778.9	685.14 ug/L	685.14 ppb	03:14:50
1	Pb 220.353†	5477.3	3984.0	941.65 ug/L	941.65 ppb	03:14:50
1	S 181.975 Axial†	415.9	262.5	635.00 ug/L	635.00 ppb	03:14:50
1	Sb 206.836†	57.0	2.4	-8.0735 ug/L	-8.0735 ppb	03:14:50
1	Se 196.026†	-303.7	-191.9	8.8396 ug/L	8.8396 ppb	03:14:50
1	Si 251.611†	943123.3	674717.3	37757 ug/L	37757 ppb	03:14:24
1	Sn 189.927†	-94.8	-78.5	-12.045 ug/L	-12.045 ppb	03:14:50
1	Ti 334.940†	1132304.3	812199.5	2163.7 ug/L	2163.7 ppb	03:14:24
1	Tl 190.801†	-118.0	-57.4	-5.6912 ug/L	-5.6912 ppb	03:14:50
1	U 409.014†	-7071.7	-2323.7	-136.92 ug/L	-136.92 ppb	03:14:30
1	V 292.402†	9978.3	8731.2	101.39 ug/L	101.39 ppb	03:14:30
1	Zn 213.857†	95899.7	68015.1	1192.9 ug/L	1192.9 ppb	03:14:30
1	SiO2†	959365.6	686346.9	82045 ug/L	82045 ppb	03:15:58
2	Sc Radial	3931.4	3931.4	125 %		03:13:52
2	Y RADIAL	5016.6	5016.6	146.2 %		03:13:32
2	Al 396.153Radial†	49721.6	39849.7	52405 ug/L	52405 ppb	03:13:32
2	Ca 317.933Radial†	13080.8	10442.5	24647 ug/L	24647 ppb	03:13:32
2	Fe 238.204 Radial†	6030.8	4816.4	78758 ug/L	78758 ppb	03:13:32
2	K 766.490 Radial†	40507.8	29569.2	7407.5 ug/L	7407.5 ppb	03:13:32
2	Mg 279.077 IEC†	257.7	204.6	10719 ug/L	10719 ppb	03:13:52
2	Na 589.592 Radial†	2091.4	2280.0	1297.3 ug/L	1297.3 ppb	03:13:32
2	Sr 421.552†	18087.5	14432.2	183.54 ug/L	183.54 ppb	03:13:32
2	Sc 361.383	699525.9	699525.9	141.13 %		03:14:56
2	Y 371.029	631104.5	631104.5	152.48 %		03:14:56
2	Ag 328.068†	-3480.7	-2586.7	3.1119 ug/L	3.1119 ppb	03:15:01
2	As 188.979†	-33.5	-1.2	36.327 ug/L	36.327 ppb	03:15:21
2	B 249.677†	803.8	977.5	24.907 ug/L	24.907 ppb	03:15:01
2	Ba 233.527†	54976.1	38961.2	564.04 ug/L	564.04 ppb	03:15:01
2	Be 313.107†	-746.3	3361.8	6.9943 ug/L	6.9943 ppb	03:15:01
2	Cd 226.502†	422.8	502.4	3.1721 ug/L	3.1721 ppb	03:15:21
2	Co 228.616†	770.7	603.8	16.751 ug/L	16.751 ppb	03:15:21
2	Cr 267.716†	6236.3	4342.5	104.97 ug/L	104.97 ppb	03:15:21
2	Cu 324.752†	81043.3	52200.3	272.38 ug/L	272.38 ppb	03:15:01
2	Mn 257.610†	1463462.0	1036519.4	2025.0 ug/L	2025.0 ppb	03:14:56
2	Mo 202.031†	17.1	6.5	7.3204 ug/L	7.3204 ppb	03:15:21
2	Ni 231.604†	2004.7	1343.6	65.156 ug/L	65.156 ppb	03:15:21

2	P 214.914†	1374.6	759.7	668.11 ug/L	668.11 ppb	03:15:21
2	Pb 220.353†	5460.6	3931.2	929.01 ug/L	929.01 ppb	03:15:21
2	S 181.975 Axial†	414.4	258.3	625.05 ug/L	625.05 ppb	03:15:21
2	Sb 206.836†	75.4	15.0	-0.3301 ug/L	-0.3301 ppb	03:15:21
2	Se 196.026†	-309.7	-193.9	-0.5686 ug/L	-0.5686 ppb	03:15:21
2	Si 251.611†	960013.4	679631.6	38032 ug/L	38032 ppb	03:14:56
2	Sn 189.927†	-88.1	-73.1	-10.615 ug/L	-10.615 ppb	03:15:21
2	Ti 334.940†	1147759.9	814682.4	2170.3 ug/L	2170.3 ppb	03:14:56
2	Tl 190.801†	-104.7	-47.2	0.3272 ug/L	0.3272 ppb	03:15:21
2	U 409.014†	-7101.8	-2292.2	-134.91 ug/L	-134.91 ppb	03:15:01
2	V 292.402†	9871.4	8580.9	99.744 ug/L	99.744 ppb	03:15:01
2	Zn 213.857†	95475.8	66997.6	1175.3 ug/L	1175.3 ppb	03:15:01
2	SiO2†	961228.8	680492.2	81345 ug/L	81345 ppb	03:16:04
3	Sc Radial	3968.1	3968.1	126 %		03:14:17
3	Y RADIAL	5065.3	5065.3	147.6 %		03:13:57
3	Al 396.153Radial†	50374.2	39998.8	52601 ug/L	52601 ppb	03:13:57
3	Ca 317.933Radial†	13149.6	10400.2	24547 ug/L	24547 ppb	03:13:57
3	Fe 238.204 Radial†	6048.0	4785.4	78252 ug/L	78252 ppb	03:13:57
3	K 766.490 Radial†	41072.3	29716.8	7444.5 ug/L	7444.5 ppb	03:13:57
3	Mg 279.077 IEC†	260.7	205.1	10746 ug/L	10746 ppb	03:14:17
3	Na 589.592 Radial†	2165.5	2323.2	1321.9 ug/L	1321.9 ppb	03:13:57
3	Sr 421.552†	18355.8	14510.9	184.54 ug/L	184.54 ppb	03:13:57
3	Sc 361.383	694599.2	694599.2	140.14 %		03:15:27
3	Y 371.029	627456.3	627456.3	151.60 %		03:15:27
3	Ag 328.068†	-3591.4	-2683.2	2.1572 ug/L	2.1572 ppb	03:15:32
3	As 188.979†	-32.7	-0.7	36.509 ug/L	36.509 ppb	03:15:52
3	B 249.677†	837.0	1005.2	26.059 ug/L	26.059 ppb	03:15:32
3	Ba 233.527†	54624.5	38986.7	564.40 ug/L	564.40 ppb	03:15:32
3	Be 313.107†	-783.1	3331.8	6.9682 ug/L	6.9682 ppb	03:15:32
3	Cd 226.502†	436.6	514.3	3.4937 ug/L	3.4937 ppb	03:15:52
3	Co 228.616†	754.8	596.4	16.494 ug/L	16.494 ppb	03:15:52
3	Cr 267.716†	6215.4	4358.9	105.29 ug/L	105.29 ppb	03:15:52
3	Cu 324.752†	80731.8	52385.3	273.30 ug/L	273.30 ppb	03:15:32
3	Mn 257.610†	1446555.0	1031809.9	2015.7 ug/L	2015.7 ppb	03:15:27
3	Mo 202.031†	23.7	11.3	7.9534 ug/L	7.9534 ppb	03:15:52
3	Ni 231.604†	1998.8	1349.5	65.442 ug/L	65.442 ppb	03:15:52
3	P 214.914†	1361.9	757.6	666.25 ug/L	666.25 ppb	03:15:52
3	Pb 220.353†	5430.2	3937.0	930.45 ug/L	930.45 ppb	03:15:52
3	S 181.975 Axial†	415.0	260.8	631.15 ug/L	631.15 ppb	03:15:52
3	Sb 206.836†	54.8	0.6	-9.0497 ug/L	-9.0497 ppb	03:15:52
3	Se 196.026†	-301.6	-189.7	3.0664 ug/L	3.0664 ppb	03:15:52
3	Si 251.611†	948719.7	676397.4	37851 ug/L	37851 ppb	03:15:27
3	Sn 189.927†	-85.4	-71.6	-10.191 ug/L	-10.191 ppb	03:15:52
3	Ti 334.940†	1137924.9	813432.7	2166.9 ug/L	2166.9 ppb	03:15:27
3	Tl 190.801†	-106.7	-49.1	-0.8713 ug/L	-0.8713 ppb	03:15:52
3	U 409.014†	-7070.3	-2305.4	-135.57 ug/L	-135.57 ppb	03:15:32
3	V 292.402†	9832.7	8602.8	100.12 ug/L	100.12 ppb	03:15:32
3	Zn 213.857†	94997.7	67136.3	1177.8 ug/L	1177.8 ppb	03:15:32
3	SiO2†	950143.4	677412.8	80977 ug/L	80977 ppb	03:16:10

Mean Data: 248198007|959127|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	695448.2	140.31 %	0.752			0.54%
Sc Radial	3950.4	126 %	0.6			0.47%
Y 371.029	628121.2	151.76 %	0.655			0.43%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 151.8%						
Y RADIAL	5108.3	148.8 %	3.47			2.33%
Ag 328.068†	-2644.7	2.8335 ug/L	0.58871	2.8335 ppb	0.58871	20.78%
Al 396.153Radial†	40383.3	53107 ug/L	1050.2	53107 ppb	1050.2	1.98%
As 188.979†	-2.4	35.466 ug/L	1.6518	35.466 ppb	1.6518	4.66%
B 249.677†	1014.6	26.234 ug/L	1.4230	26.234 ppb	1.4230	5.42%
Ba 233.527†	39145.6	566.72 ug/L	4.338	566.72 ppb	4.338	0.77%
Be 313.107†	3313.9	6.9572 ug/L	0.04369	6.9572 ppb	0.04369	0.63%
Ca 317.933Radial†	10524.9	24842 ug/L	426.1	24842 ppb	426.1	1.72%
Cd 226.502†	504.0	3.1424 ug/L	0.36701	3.1424 ppb	0.36701	11.68%
Co 228.616†	607.2	16.875 ug/L	0.4571	16.875 ppb	0.4571	2.71%
Cr 267.716†	4367.6	105.60 ug/L	0.831	105.60 ppb	0.831	0.79%
Cu 324.752†	52592.0	274.43 ug/L	2.784	274.43 ppb	2.784	1.01%
Fe 238.204 Radial†	4856.3	79412 ug/L	1591.1	79412 ppb	1591.1	2.00%

K 766.490 Radial†	29990.2	7513.0 ug/L	151.84	7513.0 ppb	151.84	2.02%
Mg 279.077 IEC†	204.6	10722 ug/L	22.5	10722 ppb	22.5	0.21%
Mn 257.610†	1032690.4	2017.6 ug/L	6.67	2017.6 ppb	6.67	0.33%
Mo 202.031†	10.3	7.8972 ug/L	0.55093	7.8972 ppb	0.55093	6.98%
Na 589.592 Radial†	2323.9	1322.3 ug/L	25.22	1322.3 ppb	25.22	1.91%
Ni 231.604†	1351.2	65.526 ug/L	0.4186	65.526 ppb	0.4186	0.64%
P 214.914†	765.4	673.16 ug/L	10.410	673.16 ppb	10.410	1.55%
Pb 220.353†	3950.7	933.70 ug/L	6.922	933.70 ppb	6.922	0.74%
S 181.975 Axial†	260.5	630.40 ug/L	5.015	630.40 ppb	5.015	0.80%
Sb 206.836†	6.0	-5.8178 ug/L	4.77747	-5.8178 ppb	4.77747	82.12%
Se 196.026†	-191.9	3.7791 ug/L	4.74441	3.7791 ppb	4.74441	125.54%
Si 251.611†	676915.4	37880 ug/L	139.8	37880 ppb	139.8	0.37%
Sn 189.927†	-74.4	-10.951 ug/L	0.9716	-10.951 ppb	0.9716	8.87%
Sr 421.552†	14667.1	186.53 ug/L	4.338	186.53 ppb	4.338	2.33%
Ti 334.940†	813438.2	2167.0 ug/L	3.26	2167.0 ppb	3.26	0.15%
Tl 190.801†	-51.2	-2.0784 ug/L	3.18560	-2.0784 ppb	3.18560	153.27%
U 409.014†	-2307.1	-135.80 ug/L	1.026	-135.80 ppb	1.026	0.76%
V 292.402†	8638.3	100.42 ug/L	0.862	100.42 ppb	0.862	0.86%
Zn 213.857†	67383.0	1182.0 ug/L	9.55	1182.0 ppb	9.55	0.81%
SiO2†	681417.3	81456 ug/L	542.5	81456 ppb	542.5	0.67%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 82

Sample ID: 248198008|959127|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 103

Date Collected: 3/30/2010 03:18:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248198008|959127|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4049.9	4049.9	129 %		03:20:37
1	Y RADIAL	4810.6	4810.6	140.2 %		03:20:37
1	Al 396.153Radial†	41687.8	32449.5	42673 ug/L	42673 ppb	03:20:17
1	Ca 317.933Radial†	15451.4	11976.7	28268 ug/L	28268 ppb	03:20:17
1	Fe 238.204 Radial†	6846.8	5308.7	86809 ug/L	86809 ppb	03:20:37
1	K 766.490 Radial†	52368.8	37828.8	9478.0 ug/L	9478.0 ppb	03:20:17
1	Mg 279.077 IEC†	389.0	300.5	15776 ug/L	15776 ppb	03:20:37
1	Na 589.592 Radial†	1813.9	2015.7	1146.9 ug/L	1146.9 ppb	03:20:17
1	Sr 421.552†	19439.0	15058.0	191.48 ug/L	191.48 ppb	03:20:17
1	Sc 361.383	698397.1	698397.1	140.90 %		03:21:40
1	Y 371.029	599831.3	599831.3	144.92 %		03:21:40
1	Ag 328.068†	-2773.1	-2088.5	9.8053 ug/L	9.8053 ppb	03:21:46
1	As 188.979†	-26.0	4.1	39.156 ug/L	39.156 ppb	03:22:06
1	B 249.677†	1054.0	1156.0	30.467 ug/L	30.467 ppb	03:21:46
1	Ba 233.527†	65897.4	46775.0	676.98 ug/L	676.98 ppb	03:21:46
1	Be 313.107†	62.7	3935.1	6.5142 ug/L	6.5142 ppb	03:21:46
1	Cd 226.502†	750.5	735.4	7.5982 ug/L	7.5982 ppb	03:22:06
1	Co 228.616†	1123.8	855.3	26.694 ug/L	26.694 ppb	03:22:06
1	Cr 267.716†	6974.5	4873.5	117.65 ug/L	117.65 ppb	03:21:46
1	Cu 324.752†	11696517.3	8295783.6	42618 ug/L	42618 ppb	03:21:34
1	Mn 257.610†	1726116.5	1224601.1	2391.6 ug/L	2391.6 ppb	03:21:40
1	Mo 202.031†	-6.3	-10.0	5.6693 ug/L	5.6693 ppb	03:22:06
1	Ni 231.604†	2174.7	1466.5	71.112 ug/L	71.112 ppb	03:22:06
1	P 214.914†	16549.0	11530.5	3196.0 ug/L	3196.0 ppb	03:21:46
1	Pb 220.353†	10773.8	7708.2	1788.5 ug/L	1788.5 ppb	03:22:06
1	S 181.975 Axial†	724.2	478.6	1168.5 ug/L	1168.5 ppb	03:22:06
1	Sb 206.836†	57.2	2.1	-3.3071 ug/L	-3.3071 ppb	03:22:06
1	Se 196.026†	-341.7	-217.0	-8.5652 ug/L	-8.5652 ppb	03:22:06
1	Si 251.611†	841216.8	596421.2	33375 ug/L	33375 ppb	03:21:40
1	Sn 189.927†	807.9	562.7	209.82 ug/L	209.82 ppb	03:22:06
1	Ti 334.940†	951484.3	676700.3	1803.1 ug/L	1803.1 ppb	03:21:40
1	Tl 190.801†	-103.3	-46.2	-0.5776 ug/L	-0.5776 ppb	03:22:06
1	U 409.014†	-4980.4	-794.7	-53.725 ug/L	-53.725 ppb	03:21:46
1	V 292.402†	14729.7	12040.1	144.96 ug/L	144.96 ppb	03:21:46
1	Zn 213.857†	663290.4	470084.4	8263.2 ug/L	8263.2 ppb	03:21:40
1	SiO2†	829865.7	588364.9	70332 ug/L	70332 ppb	03:23:26
2	Sc Radial	4048.7	4048.7	129 %		03:21:02
2	Y RADIAL	4822.3	4822.3	140.5 %		03:21:02
2	Al 396.153Radial†	41903.6	32626.3	42906 ug/L	42906 ppb	03:20:42
2	Ca 317.933Radial†	15456.7	11984.2	28286 ug/L	28286 ppb	03:20:42
2	Fe 238.204 Radial†	6794.0	5269.2	86164 ug/L	86164 ppb	03:21:02
2	K 766.490 Radial†	52339.2	37817.4	9475.1 ug/L	9475.1 ppb	03:20:42
2	Mg 279.077 IEC†	387.1	299.1	15703 ug/L	15703 ppb	03:21:02
2	Na 589.592 Radial†	1739.7	1958.4	1114.3 ug/L	1114.3 ppb	03:20:42
2	Sr 421.552†	19480.9	15094.9	191.95 ug/L	191.95 ppb	03:20:42
2	Sc 361.383	690669.5	690669.5	139.35 %		03:22:18
2	Y 371.029	593944.1	593944.1	143.50 %		03:22:18
2	Ag 328.068†	-2675.3	-2040.4	10.006 ug/L	10.006 ppb	03:22:23
2	As 188.979†	-8.1	16.8	48.890 ug/L	48.890 ppb	03:22:43
2	B 249.677†	1066.8	1173.5	31.251 ug/L	31.251 ppb	03:22:23
2	Ba 233.527†	64804.7	46514.1	673.20 ug/L	673.20 ppb	03:22:23
2	Be 313.107†	-6.7	3885.9	6.4847 ug/L	6.4847 ppb	03:22:23
2	Cd 226.502†	769.1	754.8	8.1004 ug/L	8.1004 ppb	03:22:43
2	Co 228.616†	1090.4	840.3	26.147 ug/L	26.147 ppb	03:22:43
2	Cr 267.716†	6781.5	4790.4	115.74 ug/L	115.74 ppb	03:22:23
2	Cu 324.752†	11795745.4	8459869.2	43461 ug/L	43461 ppb	03:22:12
2	Mn 257.610†	1707844.4	1225194.5	2392.7 ug/L	2392.7 ppb	03:22:18
2	Mo 202.031†	-13.7	-15.4	4.8622 ug/L	4.8622 ppb	03:22:43
2	Ni 231.604†	2163.1	1475.5	71.549 ug/L	71.549 ppb	03:22:43

2	P 214.914†	16078.8	11324.5	2819.8 ug/L	2819.8 ppb	03:22:23
2	Pb 220.353†	10708.6	7746.9	1797.2 ug/L	1797.2 ppb	03:22:43
2	S 181.975 Axial†	719.7	481.2	1174.7 ug/L	1174.7 ppb	03:22:43
2	Sb 206.836†	55.4	1.3	-3.8109 ug/L	-3.8109 ppb	03:22:43
2	Se 196.026†	-352.4	-227.4	-22.248 ug/L	-22.248 ppb	03:22:43
2	Si 251.611†	830883.3	595685.1	33334 ug/L	33334 ppb	03:22:18
2	Sn 189.927†	800.7	563.9	210.17 ug/L	210.17 ppb	03:22:43
2	Ti 334.940†	941161.6	676847.6	1803.5 ug/L	1803.5 ppb	03:22:18
2	Tl 190.801†	-96.0	-41.9	1.9409 ug/L	1.9409 ppb	03:22:43
2	U 409.014†	-4894.5	-772.7	-52.437 ug/L	-52.437 ppb	03:22:23
2	V 292.402†	14615.8	12075.3	145.51 ug/L	145.51 ppb	03:22:23
2	Zn 213.857†	655601.6	469833.5	8257.7 ug/L	8257.7 ppb	03:22:18
2	SiO2†	836944.7	600034.6	71727 ug/L	71727 ppb	03:23:32
3	Sc Radial	4041.1	4041.1	129 %		03:21:27
3	Y RADIAL	4798.5	4798.5	139.8 %		03:21:27
3	Al 396.153Radial†	41550.6	32413.6	42626 ug/L	42626 ppb	03:21:07
3	Ca 317.933Radial†	15405.6	11967.3	28246 ug/L	28246 ppb	03:21:07
3	Fe 238.204 Radial†	6786.6	5273.5	86233 ug/L	86233 ppb	03:21:27
3	K 766.490 Radial†	52192.9	37780.9	9466.0 ug/L	9466.0 ppb	03:21:07
3	Mg 279.077 IEC†	389.4	301.4	15825 ug/L	15825 ppb	03:21:27
3	Na 589.592 Radial†	1657.1	1896.7	1079.2 ug/L	1079.2 ppb	03:21:07
3	Sr 421.552†	19205.2	14909.2	189.58 ug/L	189.58 ppb	03:21:07
3	Sc 361.383	702285.2	702285.2	141.69 %		03:22:55
3	Y 371.029	603032.2	603032.2	145.69 %		03:22:55
3	Ag 328.068†	-2613.5	-1965.0	10.636 ug/L	10.636 ppb	03:23:00
3	As 188.979†	-16.0	11.3	44.605 ug/L	44.605 ppb	03:23:20
3	B 249.677†	955.8	1082.5	27.725 ug/L	27.725 ppb	03:23:00
3	Ba 233.527†	63869.1	45084.6	652.59 ug/L	652.59 ppb	03:23:00
3	Be 313.107†	-49.9	3855.4	6.4584 ug/L	6.4584 ppb	03:23:00
3	Cd 226.502†	787.7	758.8	8.1812 ug/L	8.1812 ppb	03:23:20
3	Co 228.616†	1115.1	844.8	26.310 ug/L	26.310 ppb	03:23:20
3	Cr 267.716†	6711.7	4660.6	112.86 ug/L	112.86 ppb	03:23:00
3	Cu 324.752†	11807753.6	8328333.4	42785 ug/L	42785 ppb	03:22:49
3	Mn 257.610†	1734862.7	1223991.7	2390.4 ug/L	2390.4 ppb	03:22:55
3	Mo 202.031†	-17.2	-17.7	4.5515 ug/L	4.5515 ppb	03:23:20
3	Ni 231.604†	2164.9	1451.0	70.362 ug/L	70.362 ppb	03:23:20
3	P 214.914†	15787.1	10927.8	2550.7 ug/L	2550.7 ppb	03:23:00
3	Pb 220.353†	10736.6	7639.6	1772.3 ug/L	1772.3 ppb	03:23:20
3	S 181.975 Axial†	719.4	472.4	1153.2 ug/L	1153.2 ppb	03:23:20
3	Sb 206.836†	54.4	-0.1	-4.6550 ug/L	-4.6550 ppb	03:23:20
3	Se 196.026†	-338.3	-213.3	-5.7780 ug/L	-5.7780 ppb	03:23:20
3	Si 251.611†	845411.0	596076.1	33356 ug/L	33356 ppb	03:22:55
3	Sn 189.927†	815.6	565.0	210.52 ug/L	210.52 ppb	03:23:20
3	Ti 334.940†	955221.4	675599.3	1800.2 ug/L	1800.2 ppb	03:22:55
3	Tl 190.801†	-92.5	-38.2	4.0093 ug/L	4.0093 ppb	03:23:20
3	U 409.014†	-5095.3	-856.3	-57.026 ug/L	-57.026 ppb	03:23:00
3	V 292.402†	14277.2	11662.8	140.04 ug/L	140.04 ppb	03:23:00
3	Zn 213.857†	666238.0	469558.6	8253.7 ug/L	8253.7 ppb	03:22:55
3	SiO2†	830036.9	585225.1	69957 ug/L	69957 ppb	03:23:38

Mean Data: 248198008|959127|1

Analyte	Mean Corrected	Conc. Units	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
Sc 361.383	697117.2	140.65 %		1.193			0.85%
Sc Radial	4046.6	129 %		0.2			0.12%
Y 371.029	598935.9	144.71 %		1.114			0.77%
Y RADIAL	4810.5	140.2 %		0.35			0.25%
Ag 328.068†	-2031.3	10.149 ug/L		0.4333	10.149 ppb	0.4333	4.27%
Al 396.153Radial†	32496.5	42735 ug/L		149.7	42735 ppb	149.7	0.35%
As 188.979†	10.8	44.217 ug/L		4.8790	44.217 ppb	4.8790	11.03%
B 249.677†	1137.3	29.814 ug/L		1.8512	29.814 ppb	1.8512	6.21%
Ba 233.527†	46124.6	667.59 ug/L		13.126	667.59 ppb	13.126	1.97%
Be 313.107†	3892.2	6.4857 ug/L		0.02791	6.4857 ppb	0.02791	0.43%
Ca 317.933Radial†	11976.0	28267 ug/L		20.0	28267 ppb	20.0	0.07%
Cd 226.502†	749.7	7.9600 ug/L		0.31585	7.9600 ppb	0.31585	3.97%
Co 228.616†	846.8	26.383 ug/L		0.2807	26.383 ppb	0.2807	1.06%
Cr 267.716†	4774.9	115.41 ug/L		2.413	115.41 ppb	2.413	2.09%
Cu 324.752†	8361328.7	42955 ug/L		446.2	42955 ppb	446.2	1.04%
Fe 238.204 Radial†	5283.8	86402 ug/L		354.4	86402 ppb	354.4	0.41%
K 766.490 Radial†	37809.0	9473.0 ug/L		6.25	9473.0 ppb	6.25	0.07%

Mg 279.077 IEC†	300.4	15768 ug/L	61.4	15768 ppb	61.4	0.39%
Mn 257.610†	1224595.8	2391.6 ug/L	1.17	2391.6 ppb	1.17	0.05%
Mo 202.031†	-14.4	5.0276 ug/L	0.57698	5.0276 ppb	0.57698	11.48%
Na 589.592 Radial†	1956.9	1113.5 ug/L	33.85	1113.5 ppb	33.85	3.04%
Ni 231.604†	1464.4	71.008 ug/L	0.6003	71.008 ppb	0.6003	0.85%
P 214.914†	11260.9	2855.5 ug/L	324.13	2855.5 ppb	324.13	11.35%
Pb 220.353†	7698.2	1786.0 ug/L	12.63	1786.0 ppb	12.63	0.71%
S 181.975 Axial†	477.4	1165.5 ug/L	11.07	1165.5 ppb	11.07	0.95%
Sb 206.836†	1.1	-3.9243 ug/L	0.68106	-3.9243 ppb	0.68106	17.35%
Se 196.026†	-219.2	-12.197 ug/L	8.8150	-12.197 ppb	8.8150	72.27%
Si 251.611†	596060.8	33355 ug/L	20.6	33355 ppb	20.6	0.06%
Sn 189.927†	563.9	210.17 ug/L	0.349	210.17 ppb	0.349	0.17%
Sr 421.552†	15020.7	191.00 ug/L	1.251	191.00 ppb	1.251	0.66%
Ti 334.940†	676382.4	1802.3 ug/L	1.82	1802.3 ppb	1.82	0.10%
Tl 190.801†	-42.1	1.7909 ug/L	2.29712	1.7909 ppb	2.29712	128.27%
U 409.014†	-807.9	-54.396 ug/L	2.3670	-54.396 ppb	2.3670	4.35%
V 292.402†	11926.1	143.50 ug/L	3.015	143.50 ppb	3.015	2.10%
Zn 213.857†	469825.5	8258.2 ug/L	4.75	8258.2 ppb	4.75	0.06%
SiO2†	591208.2	70672 ug/L	932.8	70672 ppb	932.8	1.32%

Sequence No.: 83

Sample ID: 248198009|959127|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 104

Date Collected: 3/30/2010 03:25:50

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248198009|959127|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3952.7	3952.7	126 %		03:28:04
1	Y RADIAL	4776.4	4776.4	139.2 %		03:27:44
1	Al 396.153Radial†	41127.9	32799.6	43134 ug/L	43134 ppb	03:27:44
1	Ca 317.933Radial†	10306.7	8179.5	19306 ug/L	19306 ppb	03:27:44
1	Fe 238.204 Radial†	4920.4	3907.1	63891 ug/L	63891 ppb	03:27:44
1	K 766.490 Radial†	42455.0	30942.9	7754.0 ug/L	7754.0 ppb	03:27:44
1	Mg 279.077 IEC†	215.7	170.1	8915.3 ug/L	8915.3 ppb	03:28:04
1	Na 589.592 Radial†	933.8	1350.2	768.28 ug/L	768.28 ppb	03:27:44
1	Sr 421.552†	15423.6	12235.2	155.61 ug/L	155.61 ppb	03:27:44
1	Sc 361.383	689747.7	689747.7	139.16 %		03:29:02
1	Y 371.029	577620.3	577620.3	139.56 %		03:29:02
1	Ag 328.068†	-2916.6	-2216.3	1.6216 ug/L	1.6216 ppb	03:29:07
1	As 188.979†	-41.3	-7.1	27.641 ug/L	27.641 ppb	03:29:27
1	B 249.677†	731.0	933.3	25.613 ug/L	25.613 ppb	03:29:07
1	Ba 233.527†	53228.2	38257.4	553.45 ug/L	553.45 ppb	03:29:07
1	Be 313.107†	-6231.7	-587.4	4.4052 ug/L	4.4052 ppb	03:29:07
1	Cd 226.502†	257.4	387.8	2.1260 ug/L	2.1260 ppb	03:29:27
1	Co 228.616†	748.6	595.7	16.821 ug/L	16.821 ppb	03:29:27
1	Cr 267.716†	3611.6	2519.1	62.893 ug/L	62.893 ppb	03:29:27
1	Cu 324.752†	17048.9	7028.1	39.524 ug/L	39.524 ppb	03:29:07
1	Mn 257.610†	1472628.3	1057806.6	2065.0 ug/L	2065.0 ppb	03:29:02
1	Mo 202.031†	14.7	5.0	5.8904 ug/L	5.8904 ppb	03:29:27
1	Ni 231.604†	1223.3	802.2	38.896 ug/L	38.896 ppb	03:29:27
1	P 214.914†	1957.3	1192.2	1163.4 ug/L	1163.4 ppb	03:29:27
1	Pb 220.353†	442.5	380.1	94.146 ug/L	94.146 ppb	03:29:27
1	S 181.975 Axial†	708.9	474.1	1157.3 ug/L	1157.3 ppb	03:29:27
1	Sb 206.836†	53.8	0.1	-8.8271 ug/L	-8.8271 ppb	03:29:27
1	Se 196.026†	-242.5	-148.8	9.6338 ug/L	9.6338 ppb	03:29:27
1	Si 251.611†	953932.2	684904.8	38327 ug/L	38327 ppb	03:29:02
1	Sn 189.927†	-107.9	-88.2	-18.698 ug/L	-18.698 ppb	03:29:27
1	Ti 334.940†	1096219.1	789174.4	2101.8 ug/L	2101.8 ppb	03:29:02
1	Tl 190.801†	-97.7	-43.2	2.2333 ug/L	2.2333 ppb	03:29:27
1	U 409.014†	-5664.2	-1330.5	-80.376 ug/L	-80.376 ppb	03:29:07
1	V 292.402†	9827.5	8648.5	102.95 ug/L	102.95 ppb	03:29:07
1	Zn 213.857†	20207.1	13868.6	236.02 ug/L	236.02 ppb	03:29:07
1	SiO2†	948557.3	681041.9	81411 ug/L	81411 ppb	03:30:35
2	Sc Radial	3985.9	3985.9	127 %		03:28:29
2	Y RADIAL	4806.4	4806.4	140.0 %		03:28:09
2	Al 396.153Radial†	40979.5	32410.3	42622 ug/L	42622 ppb	03:28:09
2	Ca 317.933Radial†	10235.2	8054.9	19012 ug/L	19012 ppb	03:28:09
2	Fe 238.204 Radial†	4852.5	3821.0	62481 ug/L	62481 ppb	03:28:09
2	K 766.490 Radial†	42168.5	30435.9	7626.9 ug/L	7626.9 ppb	03:28:09
2	Mg 279.077 IEC†	209.3	163.6	8571.9 ug/L	8571.9 ppb	03:28:29
2	Na 589.592 Radial†	850.7	1278.5	727.43 ug/L	727.43 ppb	03:28:09
2	Sr 421.552†	15326.6	12056.6	153.34 ug/L	153.34 ppb	03:28:09
2	Sc 361.383	695586.6	695586.6	140.34 %		03:29:33
2	Y 371.029	581893.1	581893.1	140.59 %		03:29:33
2	Ag 328.068†	-2958.7	-2228.8	1.0789 ug/L	1.0789 ppb	03:29:38
2	As 188.979†	-44.0	-8.7	26.037 ug/L	26.037 ppb	03:29:58
2	B 249.677†	721.7	922.2	25.418 ug/L	25.418 ppb	03:29:38
2	Ba 233.527†	53084.9	37834.2	547.31 ug/L	547.31 ppb	03:29:38
2	Be 313.107†	-6305.3	-602.3	4.4013 ug/L	4.4013 ppb	03:29:38
2	Cd 226.502†	252.6	382.8	2.1598 ug/L	2.1598 ppb	03:29:58
2	Co 228.616†	726.7	575.6	16.096 ug/L	16.096 ppb	03:29:58
2	Cr 267.716†	3616.8	2501.0	62.338 ug/L	62.338 ppb	03:29:58
2	Cu 324.752†	16972.9	6871.1	38.641 ug/L	38.641 ppb	03:29:38
2	Mn 257.610†	1490146.5	1061406.3	2071.9 ug/L	2071.9 ppb	03:29:33
2	Mo 202.031†	18.2	7.4	6.1099 ug/L	6.1099 ppb	03:29:58
2	Ni 231.604†	1204.0	781.1	37.873 ug/L	37.873 ppb	03:29:58

2	P 214.914†	1958.2	1181.0	1153.2 ug/L	1153.2 ppb	03:29:58
2	Pb 220.353†	428.8	367.6	91.234 ug/L	91.234 ppb	03:29:58
2	S 181.975 Axial†	711.8	471.9	1151.8 ug/L	1151.8 ppb	03:29:58
2	Sb 206.836†	61.4	5.3	-5.6662 ug/L	-5.6662 ppb	03:29:58
2	Se 196.026†	-252.5	-154.4	-0.8098 ug/L	-0.8098 ppb	03:29:58
2	Si 251.611†	965996.2	687746.9	38486 ug/L	38486 ppb	03:29:33
2	Sn 189.927†	-103.2	-84.2	-17.562 ug/L	-17.562 ppb	03:29:58
2	Ti 334.940†	1106722.2	790046.0	2104.1 ug/L	2104.1 ppb	03:29:33
2	Tl 190.801†	-94.0	-39.9	4.1674 ug/L	4.1674 ppb	03:29:58
2	U 409.014†	-5637.7	-1277.5	-77.308 ug/L	-77.308 ppb	03:29:38
2	V 292.402†	9771.2	8549.1	101.84 ug/L	101.84 ppb	03:29:38
2	Zn 213.857†	20136.0	13696.1	233.18 ug/L	233.18 ppb	03:29:38
2	SiO2†	970084.6	690659.7	82561 ug/L	82561 ppb	03:30:41
3	Sc Radial	3950.1	3950.1	126 %		03:28:54
3	Y RADIAL	4765.8	4765.8	138.9 %		03:28:34
3	Al 396.153Radial†	40742.4	32514.9	42759 ug/L	42759 ppb	03:28:34
3	Ca 317.933Radial†	10174.0	8079.4	19070 ug/L	19070 ppb	03:28:34
3	Fe 238.204 Radial†	4846.8	3851.2	62976 ug/L	62976 ppb	03:28:34
3	K 766.490 Radial†	42114.0	30694.3	7691.7 ug/L	7691.7 ppb	03:28:34
3	Mg 279.077 IEC†	213.6	168.5	8831.5 ug/L	8831.5 ppb	03:28:54
3	Na 589.592 Radial†	880.5	1308.3	744.42 ug/L	744.42 ppb	03:28:34
3	Sr 421.552†	15174.8	12045.4	153.20 ug/L	153.20 ppb	03:28:34
3	Sc 361.383	696854.8	696854.8	140.59 %		03:30:04
3	Y 371.029	583635.3	583635.3	141.01 %		03:30:04
3	Ag 328.068†	-3042.8	-2284.7	0.7658 ug/L	0.7658 ppb	03:30:09
3	As 188.979†	-36.1	-3.1	30.519 ug/L	30.519 ppb	03:30:29
3	B 249.677†	752.4	943.1	26.144 ug/L	26.144 ppb	03:30:09
3	Ba 233.527†	53212.5	37856.2	547.64 ug/L	547.64 ppb	03:30:09
3	Be 313.107†	-6390.9	-655.0	4.3589 ug/L	4.3589 ppb	03:30:09
3	Cd 226.502†	268.5	393.8	2.3565 ug/L	2.3565 ppb	03:30:29
3	Co 228.616†	740.6	584.5	16.427 ug/L	16.427 ppb	03:30:29
3	Cr 267.716†	3603.8	2487.0	62.081 ug/L	62.081 ppb	03:30:29
3	Cu 324.752†	17045.9	6901.0	38.821 ug/L	38.821 ppb	03:30:09
3	Mn 257.610†	1486963.4	1057209.9	2063.7 ug/L	2063.7 ppb	03:30:04
3	Mo 202.031†	12.9	3.6	5.6228 ug/L	5.6228 ppb	03:30:29
3	Ni 231.604†	1208.7	782.9	37.960 ug/L	37.960 ppb	03:30:29
3	P 214.914†	1962.2	1181.3	1153.1 ug/L	1153.1 ppb	03:30:29
3	Pb 220.353†	427.9	366.4	90.928 ug/L	90.928 ppb	03:30:29
3	S 181.975 Axial†	717.8	475.2	1160.1 ug/L	1160.1 ppb	03:30:29
3	Sb 206.836†	53.3	-0.6	-9.2493 ug/L	-9.2493 ppb	03:30:29
3	Se 196.026†	-251.4	-153.3	1.8181 ug/L	1.8181 ppb	03:30:29
3	Si 251.611†	965459.7	686112.7	38394 ug/L	38394 ppb	03:30:04
3	Sn 189.927†	-103.4	-84.2	-17.476 ug/L	-17.476 ppb	03:30:29
3	Ti 334.940†	1106429.1	788402.3	2099.7 ug/L	2099.7 ppb	03:30:04
3	Tl 190.801†	-100.4	-44.4	1.5222 ug/L	1.5222 ppb	03:30:29
3	U 409.014†	-5660.5	-1286.3	-77.850 ug/L	-77.850 ppb	03:30:09
3	V 292.402†	9757.9	8526.9	101.48 ug/L	101.48 ppb	03:30:09
3	Zn 213.857†	20126.3	13663.1	232.52 ug/L	232.52 ppb	03:30:09
3	SiO2†	954386.1	678235.9	81076 ug/L	81076 ppb	03:30:47

Mean Data: 248198009|959127|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	694063.0	140.03 %	0.765			0.55%
Sc Radial	3962.9	126 %	0.6			0.50%
Y 371.029	581049.5	140.38 %	0.748			0.53%
Y RADIAL	4782.9	139.4 %	0.61			0.44%
Ag 328.068†	-2243.3	1.1554 ug/L	0.43299	1.1554 ppb	0.43299	37.47%
Al 396.153Radial†	32574.9	42838 ug/L	265.0	42838 ppb	265.0	0.62%
As 188.979†	-6.3	28.065 ug/L	2.2708	28.065 ppb	2.2708	8.09%
B 249.677†	932.9	25.725 ug/L	0.3757	25.725 ppb	0.3757	1.46%
Ba 233.527†	37982.6	549.47 ug/L	3.455	549.47 ppb	3.455	0.63%
Be 313.107†	-614.9	4.3885 ug/L	0.02568	4.3885 ppb	0.02568	0.59%
Ca 317.933Radial†	8104.6	19129 ug/L	155.8	19129 ppb	155.8	0.81%
Cd 226.502†	388.1	2.2141 ug/L	0.12445	2.2141 ppb	0.12445	5.62%
Co 228.616†	585.3	16.448 ug/L	0.3631	16.448 ppb	0.3631	2.21%
Cr 267.716†	2502.4	62.437 ug/L	0.4148	62.437 ppb	0.4148	0.66%
Cu 324.752†	6933.4	38.995 ug/L	0.4664	38.995 ppb	0.4664	1.20%
Fe 238.204 Radial†	3859.8	63116 ug/L	715.0	63116 ppb	715.0	1.13%
K 766.490 Radial†	30691.0	7690.9 ug/L	63.54	7690.9 ppb	63.54	0.83%

Mg 279.077 IEC†	167.4	8772.9 ug/L	179.07	8772.9 ppb	179.07	2.04%
Mn 257.610†	1058807.6	2066.9 ug/L	4.38	2066.9 ppb	4.38	0.21%
Mo 202.031†	5.3	5.8744 ug/L	0.24397	5.8744 ppb	0.24397	4.15%
Na 589.592 Radial†	1312.3	746.71 ug/L	20.517	746.71 ppb	20.517	2.75%
Ni 231.604†	788.7	38.243 ug/L	0.5674	38.243 ppb	0.5674	1.48%
P 214.914†	1184.9	1156.6 ug/L	5.89	1156.6 ppb	5.89	0.51%
Pb 220.353†	371.4	92.103 ug/L	1.7761	92.103 ppb	1.7761	1.93%
S 181.975 Axial†	473.7	1156.4 ug/L	4.22	1156.4 ppb	4.22	0.36%
Sb 206.836†	1.6	-7.9142 ug/L	1.95827	-7.9142 ppb	1.95827	24.74%
Se 196.026†	-152.2	3.5474 ug/L	5.43234	3.5474 ppb	5.43234	153.14%
Si 251.611†	686254.8	38402 ug/L	79.8	38402 ppb	79.8	0.21%
Sn 189.927†	-85.5	-17.912 ug/L	0.6822	-17.912 ppb	0.6822	3.81%
Sr 421.552†	12112.4	154.05 ug/L	1.355	154.05 ppb	1.355	0.88%
Ti 334.940†	789207.6	2101.9 ug/L	2.19	2101.9 ppb	2.19	0.10%
Tl 190.801†	-42.5	2.6410 ug/L	1.36894	2.6410 ppb	1.36894	51.83%
U 409.014†	-1298.1	-78.511 ug/L	1.6376	-78.511 ppb	1.6376	2.09%
V 292.402†	8574.8	102.09 ug/L	0.767	102.09 ppb	0.767	0.75%
Zn 213.857†	13742.6	233.91 ug/L	1.860	233.91 ppb	1.860	0.80%
SiO2†	683312.5	81682 ug/L	778.9	81682 ppb	778.9	0.95%

Sequence No.: 84

Sample ID: 248198010|959127|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 105

Date Collected: 3/30/2010 03:32:59

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248198010|959127|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3966.4	3966.4	126 %		03:35:13
1	Y RADIAL	5049.7	5049.7	147.1 %		03:34:53
1	Al 396.153Radial†	53946.2	42846.8	56346 ug/L	56346 ppb	03:34:53
1	Ca 317.933Radial†	16388.2	12971.6	30617 ug/L	30617 ppb	03:34:53
1	Fe 238.204 Radial†	6419.2	5081.6	83096 ug/L	83096 ppb	03:34:53
1	K 766.490 Radial†	63017.4	47124.6	11808 ug/L	11808 ppb	03:34:53
1	Mg 279.077 IEC†	296.2	233.3	12231 ug/L	12231 ppb	03:35:13
1	Na 589.592 Radial†	911.4	1329.9	756.72 ug/L	756.72 ppb	03:34:53
1	Sr 421.552†	23546.8	18631.5	236.95 ug/L	236.95 ppb	03:34:53
1	Sc 361.383	686702.4	686702.4	138.55 %		03:36:10
1	Y 371.029	612829.2	612829.2	148.06 %		03:36:10
1	Ag 328.068†	-3776.4	-2846.2	2.4016 ug/L	2.4016 ppb	03:36:16
1	As 188.979†	-34.4	-2.2	43.367 ug/L	43.367 ppb	03:36:36
1	B 249.677†	2855.3	2468.9	81.779 ug/L	81.779 ppb	03:36:16
1	Ba 233.527†	83566.5	60324.8	872.09 ug/L	872.09 ppb	03:36:16
1	Be 313.107†	-5332.7	41.6	6.7459 ug/L	6.7459 ppb	03:36:16
1	Cd 226.502†	423.4	508.4	2.8458 ug/L	2.8458 ppb	03:36:36
1	Co 228.616†	1181.0	910.1	26.455 ug/L	26.455 ppb	03:36:36
1	Cr 267.716†	3944.6	2770.9	70.607 ug/L	70.607 ppb	03:36:36
1	Cu 324.752†	22388.8	10936.6	60.663 ug/L	60.663 ppb	03:36:16
1	Mn 257.610†	3154599.9	2276521.9	4439.0 ug/L	4439.0 ppb	03:36:10
1	Mo 202.031†	15.9	5.9	7.6375 ug/L	7.6375 ppb	03:36:36
1	Ni 231.604†	1580.1	1063.6	51.570 ug/L	51.570 ppb	03:36:36
1	P 214.914†	2274.7	1427.6	1386.3 ug/L	1386.3 ppb	03:36:36
1	Pb 220.353†	646.7	528.8	130.68 ug/L	130.68 ppb	03:36:36
1	S 181.975 Axial†	899.5	613.9	1498.4 ug/L	1498.4 ppb	03:36:36
1	Sb 206.836†	59.7	4.6	-9.5376 ug/L	-9.5376 ppb	03:36:36
1	Se 196.026†	-332.7	-214.6	-11.856 ug/L	-11.856 ppb	03:36:36
1	Si 251.611†	954615.4	688437.8	38525 ug/L	38525 ppb	03:36:10
1	Sn 189.927†	-141.1	-112.5	-22.368 ug/L	-22.368 ppb	03:36:36
1	Ti 334.940†	1539254.1	1112443.9	2963.3 ug/L	2963.3 ppb	03:36:10
1	Tl 190.801†	-159.2	-87.9	-5.0046 ug/L	-5.0046 ppb	03:36:36
1	U 409.014†	-7734.8	-2843.1	-165.54 ug/L	-165.54 ppb	03:36:16
1	V 292.402†	13799.4	11546.6	137.51 ug/L	137.51 ppb	03:36:16
1	Zn 213.857†	29310.9	20504.0	350.68 ug/L	350.68 ppb	03:36:16
1	SiO2†	960544.0	692716.5	82807 ug/L	82807 ppb	03:37:44
2	Sc Radial	3933.7	3933.7	125 %		03:35:38
2	Y RADIAL	5111.7	5111.7	148.9 %		03:35:18
2	Al 396.153Radial†	54607.0	43731.2	57509 ug/L	57509 ppb	03:35:18
2	Ca 317.933Radial†	16647.3	13286.8	31361 ug/L	31361 ppb	03:35:18
2	Fe 238.204 Radial†	6504.4	5192.1	84903 ug/L	84903 ppb	03:35:18
2	K 766.490 Radial†	63965.6	48298.6	12102 ug/L	12102 ppb	03:35:18
2	Mg 279.077 IEC†	299.4	237.8	12468 ug/L	12468 ppb	03:35:38
2	Na 589.592 Radial†	894.6	1322.5	752.47 ug/L	752.47 ppb	03:35:18
2	Sr 421.552†	23879.2	19052.7	242.31 ug/L	242.31 ppb	03:35:18
2	Sc 361.383	690786.3	690786.3	139.37 %		03:36:42
2	Y 371.029	616845.6	616845.6	149.03 %		03:36:42
2	Ag 328.068†	-3911.9	-2927.3	2.2567 ug/L	2.2567 ppb	03:36:47
2	As 188.979†	-38.1	-4.7	41.836 ug/L	41.836 ppb	03:37:07
2	B 249.677†	2821.3	2432.3	80.073 ug/L	80.073 ppb	03:36:47
2	Ba 233.527†	82779.9	59403.8	858.87 ug/L	858.87 ppb	03:36:47
2	Be 313.107†	-5406.1	11.7	6.7284 ug/L	6.7284 ppb	03:36:47
2	Cd 226.502†	416.6	501.7	2.5102 ug/L	2.5102 ppb	03:37:07
2	Co 228.616†	1193.4	914.0	26.567 ug/L	26.567 ppb	03:37:07
2	Cr 267.716†	3962.6	2767.0	70.702 ug/L	70.702 ppb	03:37:07
2	Cu 324.752†	22216.5	10717.5	59.628 ug/L	59.628 ppb	03:36:47
2	Mn 257.610†	3163572.6	2269498.5	4425.5 ug/L	4425.5 ppb	03:36:42
2	Mo 202.031†	22.4	10.5	8.4345 ug/L	8.4345 ppb	03:37:07
2	Ni 231.604†	1556.2	1039.8	50.412 ug/L	50.412 ppb	03:37:07

2	P 214.914†	2289.8	1428.7	1386.5 ug/L	1386.5 ppb	03:37:07
2	Pb 220.353†	644.7	524.6	129.83 ug/L	129.83 ppb	03:37:07
2	S 181.975 Axial†	903.8	613.1	1496.3 ug/L	1496.3 ppb	03:37:07
2	Sb 206.836†	68.8	10.8	-5.7427 ug/L	-5.7427 ppb	03:37:07
2	Se 196.026†	-332.1	-212.8	-4.6012 ug/L	-4.6012 ppb	03:37:07
2	Si 251.611†	960692.7	688724.9	38541 ug/L	38541 ppb	03:36:42
2	Sn 189.927†	-133.9	-106.7	-19.994 ug/L	-19.994 ppb	03:37:07
2	Ti 334.940†	1548627.0	1112600.8	2963.8 ug/L	2963.8 ppb	03:36:42
2	Tl 190.801†	-143.1	-75.7	1.9366 ug/L	1.9366 ppb	03:37:07
2	U 409.014†	-7545.9	-2674.5	-156.50 ug/L	-156.50 ppb	03:36:47
2	V 292.402†	13548.2	11307.5	134.11 ug/L	134.11 ppb	03:36:47
2	Zn 213.857†	28955.1	20123.7	343.68 ug/L	343.68 ppb	03:36:47
2	SiO2†	955911.6	685293.8	81919 ug/L	81919 ppb	03:37:50
3	Sc Radial	3918.0	3918.0	125 %		03:36:03
3	Y RADIAL	5117.3	5117.3	149.1 %		03:35:43
3	Al 396.153Radial†	54909.4	44148.5	58058 ug/L	58058 ppb	03:35:43
3	Ca 317.933Radial†	16695.3	13378.6	31577 ug/L	31577 ppb	03:35:43
3	Fe 238.204 Radial†	6525.6	5229.9	85521 ug/L	85521 ppb	03:35:43
3	K 766.490 Radial†	64486.5	48921.2	12259 ug/L	12259 ppb	03:35:43
3	Mg 279.077 IEC†	299.4	238.8	12519 ug/L	12519 ppb	03:36:03
3	Na 589.592 Radial†	896.7	1327.1	755.10 ug/L	755.10 ppb	03:35:43
3	Sr 421.552†	23979.8	19209.7	244.30 ug/L	244.30 ppb	03:35:43
3	Sc 361.383	686929.4	686929.4	138.59 %		03:37:13
3	Y 371.029	612748.5	612748.5	148.04 %		03:37:13
3	Ag 328.068†	-3718.9	-2803.8	3.4790 ug/L	3.4790 ppb	03:37:18
3	As 188.979†	-32.9	-1.1	44.818 ug/L	44.818 ppb	03:37:38
3	B 249.677†	2810.4	2435.8	80.107 ug/L	80.107 ppb	03:37:18
3	Ba 233.527†	83304.0	60115.4	869.14 ug/L	869.14 ppb	03:37:18
3	Be 313.107†	-5458.8	-48.1	6.6902 ug/L	6.6902 ppb	03:37:18
3	Cd 226.502†	445.3	524.1	2.9486 ug/L	2.9486 ppb	03:37:38
3	Co 228.616†	1190.3	916.6	26.656 ug/L	26.656 ppb	03:37:38
3	Cr 267.716†	3969.0	2787.6	71.229 ug/L	71.229 ppb	03:37:38
3	Cu 324.752†	22219.0	10808.8	60.135 ug/L	60.135 ppb	03:37:18
3	Mn 257.610†	3150288.5	2272658.5	4431.7 ug/L	4431.7 ppb	03:37:13
3	Mo 202.031†	14.4	4.8	7.6885 ug/L	7.6885 ppb	03:37:38
3	Ni 231.604†	1612.8	1086.9	52.697 ug/L	52.697 ppb	03:37:38
3	P 214.914†	2291.0	1438.8	1396.3 ug/L	1396.3 ppb	03:37:38
3	Pb 220.353†	645.6	527.9	130.67 ug/L	130.67 ppb	03:37:38
3	S 181.975 Axial†	922.7	630.4	1538.7 ug/L	1538.7 ppb	03:37:38
3	Sb 206.836†	74.5	15.3	-3.0866 ug/L	-3.0866 ppb	03:37:38
3	Se 196.026†	-344.0	-222.7	-14.323 ug/L	-14.323 ppb	03:37:38
3	Si 251.611†	954123.8	687855.4	38492 ug/L	38492 ppb	03:37:13
3	Sn 189.927†	-131.3	-105.4	-19.418 ug/L	-19.418 ppb	03:37:38
3	Ti 334.940†	1539658.3	1112368.4	2963.2 ug/L	2963.2 ppb	03:37:13
3	Tl 190.801†	-154.4	-84.3	-3.0092 ug/L	-3.0092 ppb	03:37:38
3	U 409.014†	-7733.9	-2840.5	-165.67 ug/L	-165.67 ppb	03:37:18
3	V 292.402†	13507.0	11332.3	134.32 ug/L	134.32 ppb	03:37:18
3	Zn 213.857†	29059.9	20315.9	346.98 ug/L	346.98 ppb	03:37:18
3	SiO2†	958973.3	691354.1	82644 ug/L	82644 ppb	03:37:56

Mean Data: 248198010|959127|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	688139.4	138.84 %	0.463			0.33%
Sc Radial	3939.4	125 %	0.8			0.63%
Y 371.029	614141.1	148.38 %	0.566			0.38%
Y RADIAL	5092.9	148.4 %	1.09			0.74%
Ag 328.068†	-2859.1	2.7124 ug/L	0.66778	2.7124 ppb	0.66778	24.62%
Al 396.153Radial†	43575.5	57305 ug/L	874.1	57305 ppb	874.1	1.53%
As 188.979†	-2.7	43.340 ug/L	1.4914	43.340 ppb	1.4914	3.44%
B 249.677†	2445.6	80.653 ug/L	0.9754	80.653 ppb	0.9754	1.21%
Ba 233.527†	59948.0	866.70 ug/L	6.941	866.70 ppb	6.941	0.80%
Be 313.107†	1.7	6.7215 ug/L	0.02852	6.7215 ppb	0.02852	0.42%
Ca 317.933Radial†	13212.3	31185 ug/L	503.9	31185 ppb	503.9	1.62%
Cd 226.502†	511.4	2.7682 ug/L	0.22929	2.7682 ppb	0.22929	8.28%
Co 228.616†	913.6	26.559 ug/L	0.1007	26.559 ppb	0.1007	0.38%
Cr 267.716†	2775.2	70.846 ug/L	0.3353	70.846 ppb	0.3353	0.47%
Cu 324.752†	10821.0	60.142 ug/L	0.5176	60.142 ppb	0.5176	0.86%
Fe 238.204 Radial†	5167.9	84507 ug/L	1260.1	84507 ppb	1260.1	1.49%
K 766.490 Radial†	48114.8	12056 ug/L	228.7	12056 ppb	228.7	1.90%

Mg 279.077 IEC†	236.6	12406 ug/L	153.4	12406 ppb	153.4	1.24%
Mn 257.610†	2272893.0	4432.1 ug/L	6.76	4432.1 ppb	6.76	0.15%
Mo 202.031†	7.1	7.9202 ug/L	0.44613	7.9202 ppb	0.44613	5.63%
Na 589.592 Radial†	1326.5	754.76 ug/L	2.143	754.76 ppb	2.143	0.28%
Ni 231.604†	1063.4	51.560 ug/L	1.1421	51.560 ppb	1.1421	2.22%
P 214.914†	1431.7	1389.7 ug/L	5.72	1389.7 ppb	5.72	0.41%
Pb 220.353†	527.1	130.39 ug/L	0.490	130.39 ppb	0.490	0.38%
S 181.975 Axial†	619.2	1511.1 ug/L	23.91	1511.1 ppb	23.91	1.58%
Sb 206.836†	10.2	-6.1223 ug/L	3.24221	-6.1223 ppb	3.24221	52.96%
Se 196.026†	-216.7	-10.260 ug/L	5.0538	-10.260 ppb	5.0538	49.26%
Si 251.611†	688339.4	38519 ug/L	24.8	38519 ppb	24.8	0.06%
Sn 189.927†	-108.2	-20.593 ug/L	1.5638	-20.593 ppb	1.5638	7.59%
Sr 421.552†	18964.6	241.19 ug/L	3.803	241.19 ppb	3.803	1.58%
Ti 334.940†	1112471.0	2963.4 ug/L	0.32	2963.4 ppb	0.32	0.01%
Tl 190.801†	-82.6	-2.0257 ug/L	3.57357	-2.0257 ppb	3.57357	176.41%
U 409.014†	-2786.0	-162.57 ug/L	5.259	-162.57 ppb	5.259	3.23%
V 292.402†	11395.5	135.31 ug/L	1.903	135.31 ppb	1.903	1.41%
Zn 213.857†	20314.5	347.11 ug/L	3.504	347.11 ppb	3.504	1.01%
SiO2†	689788.2	82456 ug/L	472.4	82456 ppb	472.4	0.57%

Sequence No.: 85

Sample ID: 248198011|959127|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 106

Date Collected: 3/30/2010 03:40:08

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248198011|959127|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3872.2	3872.2	123 %		03:42:22
1	Y RADIAL	4843.6	4843.6	141.1 %		03:42:02
1	Al 396.153Radial†	42081.7	34254.7	45047 ug/L	45047 ppb	03:42:02
1	Ca 317.933Radial†	15486.6	12555.7	29635 ug/L	29635 ppb	03:42:02
1	Fe 238.204 Radial†	5612.5	4550.5	74412 ug/L	74412 ppb	03:42:02
1	K 766.490 Radial†	61303.7	46949.3	11765 ug/L	11765 ppb	03:42:02
1	Mg 279.077 IEC†	270.4	218.1	11436 ug/L	11436 ppb	03:42:22
1	Na 589.592 Radial†	396.6	929.6	528.91 ug/L	528.91 ppb	03:42:02
1	Sr 421.552†	20420.3	16547.4	210.43 ug/L	210.43 ppb	03:42:02
1	Sc 361.383	692391.5	692391.5	139.69 %		03:43:19
1	Y 371.029	599759.3	599759.3	144.90 %		03:43:19
1	Ag 328.068†	-3281.3	-2469.4	2.7047 ug/L	2.7047 ppb	03:43:24
1	As 188.979†	-36.5	-3.5	35.227 ug/L	35.227 ppb	03:43:44
1	B 249.677†	3041.2	2585.0	87.699 ug/L	87.699 ppb	03:43:24
1	Ba 233.527†	72541.6	51937.0	750.91 ug/L	750.91 ppb	03:43:24
1	Be 313.107†	-1681.5	2687.0	7.0414 ug/L	7.0414 ppb	03:43:24
1	Cd 226.502†	357.2	458.5	2.6274 ug/L	2.6274 ppb	03:43:44
1	Co 228.616†	907.0	707.0	20.284 ug/L	20.284 ppb	03:43:44
1	Cr 267.716†	3476.1	2412.1	61.660 ug/L	61.660 ppb	03:43:44
1	Cu 324.752†	19212.8	8530.3	47.811 ug/L	47.811 ppb	03:43:24
1	Mn 257.610†	3089692.6	2211349.0	4311.3 ug/L	4311.3 ppb	03:43:19
1	Mo 202.031†	-8.7	-11.8	4.4748 ug/L	4.4748 ppb	03:43:44
1	Ni 231.604†	1349.0	888.8	43.096 ug/L	43.096 ppb	03:43:44
1	P 214.914†	2353.8	1470.7	1436.7 ug/L	1436.7 ppb	03:43:44
1	Pb 220.353†	533.1	443.7	108.69 ug/L	108.69 ppb	03:43:44
1	S 181.975 Axial†	823.9	554.5	1354.4 ug/L	1354.4 ppb	03:43:44
1	Sb 206.836†	55.8	1.5	-9.2244 ug/L	-9.2244 ppb	03:43:44
1	Se 196.026†	-286.6	-179.7	2.3724 ug/L	2.3724 ppb	03:43:44
1	Si 251.611†	913525.7	653362.1	36562 ug/L	36562 ppb	03:43:19
1	Sn 189.927†	-141.3	-111.8	-23.351 ug/L	-23.351 ppb	03:43:44
1	Ti 334.940†	1243174.6	891365.3	2374.9 ug/L	2374.9 ppb	03:43:19
1	Tl 190.801†	-142.3	-74.8	-2.9454 ug/L	-2.9454 ppb	03:43:44
1	U 409.014†	-6318.8	-1783.6	-106.42 ug/L	-106.42 ppb	03:43:24
1	V 292.402†	11183.7	9592.3	113.59 ug/L	113.59 ppb	03:43:24
1	Zn 213.857†	114986.0	81661.1	1436.3 ug/L	1436.3 ppb	03:43:24
1	SiO2†	906836.9	648573.5	77530 ug/L	77530 ppb	03:44:53
2	Sc Radial	3937.0	3937.0	125 %		03:42:47
2	Y RADIAL	4814.0	4814.0	140.3 %		03:42:27
2	Al 396.153Radial†	41877.7	33529.4	44094 ug/L	44094 ppb	03:42:27
2	Ca 317.933Radial†	15373.4	12258.4	28933 ug/L	28933 ppb	03:42:27
2	Fe 238.204 Radial†	5564.8	4437.4	72562 ug/L	72562 ppb	03:42:27
2	K 766.490 Radial†	60972.3	45865.3	11493 ug/L	11493 ppb	03:42:27
2	Mg 279.077 IEC†	271.3	215.2	11286 ug/L	11286 ppb	03:42:47
2	Na 589.592 Radial†	398.4	925.7	526.71 ug/L	526.71 ppb	03:42:27
2	Sr 421.552†	20212.7	16108.7	204.85 ug/L	204.85 ppb	03:42:27
2	Sc 361.383	699142.6	699142.6	141.06 %		03:43:50
2	Y 371.029	605689.0	605689.0	146.34 %		03:43:50
2	Ag 328.068†	-3275.4	-2442.5	2.3586 ug/L	2.3586 ppb	03:43:56
2	As 188.979†	-38.9	-5.0	33.676 ug/L	33.676 ppb	03:44:16
2	B 249.677†	2963.6	2509.0	85.062 ug/L	85.062 ppb	03:43:56
2	Ba 233.527†	71634.9	50792.7	734.36 ug/L	734.36 ppb	03:43:56
2	Be 313.107†	-1793.9	2618.9	7.0003 ug/L	7.0003 ppb	03:43:56
2	Cd 226.502†	357.8	456.5	2.7726 ug/L	2.7726 ppb	03:44:16
2	Co 228.616†	916.2	707.3	20.312 ug/L	20.312 ppb	03:44:16
2	Cr 267.716†	3459.2	2376.1	60.662 ug/L	60.662 ppb	03:44:16
2	Cu 324.752†	18999.7	8246.4	46.255 ug/L	46.255 ppb	03:43:56
2	Mn 257.610†	3111712.4	2205602.2	4300.0 ug/L	4300.0 ppb	03:43:50
2	Mo 202.031†	-14.5	-15.9	3.7557 ug/L	3.7557 ppb	03:44:16
2	Ni 231.604†	1349.7	880.0	42.667 ug/L	42.667 ppb	03:44:16

2	P 214.914†	2325.0	1434.0	1401.0 ug/L	1401.0 ppb	03:44:16
2	Pb 220.353†	555.2	455.7	111.43 ug/L	111.43 ppb	03:44:16
2	S 181.975 Axial†	819.0	545.3	1332.2 ug/L	1332.2 ppb	03:44:16
2	Sb 206.836†	53.8	-0.3	-10.278 ug/L	-10.278 ppb	03:44:16
2	Se 196.026†	-277.0	-170.9	7.3145 ug/L	7.3145 ppb	03:44:16
2	Si 251.611†	922217.4	653209.3	36553 ug/L	36553 ppb	03:43:50
2	Sn 189.927†	-139.2	-109.4	-22.872 ug/L	-22.872 ppb	03:44:16
2	Ti 334.940†	1255494.2	891505.7	2375.2 ug/L	2375.2 ppb	03:43:50
2	Tl 190.801†	-141.6	-73.4	-2.1409 ug/L	-2.1409 ppb	03:44:16
2	U 409.014†	-6389.8	-1790.2	-106.57 ug/L	-106.57 ppb	03:43:56
2	V 292.402†	11107.6	9461.0	112.11 ug/L	112.11 ppb	03:43:56
2	Zn 213.857†	113842.9	80055.9	1408.1 ug/L	1408.1 ppb	03:43:56
2	SiO2†	910505.4	644905.7	77091 ug/L	77091 ppb	03:44:59
3	Sc Radial	3939.7	3939.7	125 %		03:43:12
3	Y RADIAL	4843.9	4843.9	141.1 %		03:42:52
3	Al 396.153Radial†	42247.5	33801.7	44452 ug/L	44452 ppb	03:42:52
3	Ca 317.933Radial†	15443.3	12305.8	29045 ug/L	29045 ppb	03:42:52
3	Fe 238.204 Radial†	5603.5	4465.3	73017 ug/L	73017 ppb	03:42:52
3	K 766.490 Radial†	61381.2	46158.4	11567 ug/L	11567 ppb	03:42:52
3	Mg 279.077 IEC†	266.1	210.9	11058 ug/L	11058 ppb	03:43:12
3	Na 589.592 Radial†	458.8	973.7	554.01 ug/L	554.01 ppb	03:42:52
3	Sr 421.552†	20489.5	16318.6	207.52 ug/L	207.52 ppb	03:42:52
3	Sc 361.383	688155.7	688155.7	138.84 %		03:44:21
3	Y 371.029	596315.3	596315.3	144.07 %		03:44:21
3	Ag 328.068†	-3313.9	-2507.3	1.9582 ug/L	1.9582 ppb	03:44:27
3	As 188.979†	-34.0	-1.9	36.155 ug/L	36.155 ppb	03:44:47
3	B 249.677†	3015.3	2579.7	87.720 ug/L	87.720 ppb	03:44:27
3	Ba 233.527†	72027.2	51886.1	750.13 ug/L	750.13 ppb	03:44:27
3	Be 313.107†	-1770.9	2615.2	6.9908 ug/L	6.9908 ppb	03:44:27
3	Cd 226.502†	357.0	460.0	2.8051 ug/L	2.8051 ppb	03:44:47
3	Co 228.616†	903.2	708.3	20.358 ug/L	20.358 ppb	03:44:47
3	Cr 267.716†	3446.1	2405.9	61.369 ug/L	61.369 ppb	03:44:47
3	Cu 324.752†	19130.5	8555.7	47.864 ug/L	47.864 ppb	03:44:27
3	Mn 257.610†	3074272.6	2213856.6	4316.1 ug/L	4316.1 ppb	03:44:21
3	Mo 202.031†	-5.2	-9.4	4.7031 ug/L	4.7031 ppb	03:44:47
3	Ni 231.604†	1336.6	885.9	42.951 ug/L	42.951 ppb	03:44:47
3	P 214.914†	2318.1	1455.3	1422.1 ug/L	1422.1 ppb	03:44:47
3	Pb 220.353†	545.9	455.3	111.38 ug/L	111.38 ppb	03:44:47
3	S 181.975 Axial†	819.6	555.0	1355.8 ug/L	1355.8 ppb	03:44:47
3	Sb 206.836†	57.0	2.6	-8.4622 ug/L	-8.4622 ppb	03:44:47
3	Se 196.026†	-293.1	-185.6	-8.3579 ug/L	-8.3579 ppb	03:44:47
3	Si 251.611†	906158.8	652081.3	36490 ug/L	36490 ppb	03:44:21
3	Sn 189.927†	-129.3	-103.8	-20.871 ug/L	-20.871 ppb	03:44:47
3	Ti 334.940†	1234101.7	890308.2	2372.0 ug/L	2372.0 ppb	03:44:21
3	Tl 190.801†	-140.1	-73.8	-2.3702 ug/L	-2.3702 ppb	03:44:47
3	U 409.014†	-6106.3	-1658.3	-99.390 ug/L	-99.390 ppb	03:44:27
3	V 292.402†	11039.9	9538.0	113.09 ug/L	113.09 ppb	03:44:27
3	Zn 213.857†	114368.6	81723.1	1437.6 ug/L	1437.6 ppb	03:44:27
3	SiO2†	904341.0	650771.6	77793 ug/L	77793 ppb	03:45:05

Mean Data: 248198011|959127|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	693229.9	139.86 %		1.118			0.80%
Sc Radial	3916.3	125 %		1.2			0.98%
Y 371.029	600587.9	145.10 %		1.146			0.79%
Y RADIAL	4833.8	140.8 %		0.50			0.36%
Ag 328.068†	-2473.1	2.3405 ug/L		0.37354	2.3405 ppb	0.37354	15.96%
Al 396.153Radial†	33862.0	44531 ug/L		481.8	44531 ppb	481.8	1.08%
As 188.979†	-3.5	35.019 ug/L		1.2527	35.019 ppb	1.2527	3.58%
B 249.677†	2557.9	86.827 ug/L		1.5285	86.827 ppb	1.5285	1.76%
Ba 233.527†	51538.6	745.14 ug/L		9.338	745.14 ppb	9.338	1.25%
Be 313.107†	2640.3	7.0108 ug/L		0.02692	7.0108 ppb	0.02692	0.38%
Ca 317.933Radial†	12373.3	29205 ug/L		377.1	29205 ppb	377.1	1.29%
Cd 226.502†	458.3	2.7350 ug/L		0.09464	2.7350 ppb	0.09464	3.46%
Co 228.616†	707.5	20.318 ug/L		0.0374	20.318 ppb	0.0374	0.18%
Cr 267.716†	2398.0	61.230 ug/L		0.5132	61.230 ppb	0.5132	0.84%
Cu 324.752†	8444.2	47.310 ug/L		0.9141	47.310 ppb	0.9141	1.93%
Fe 238.204 Radial†	4484.4	73330 ug/L		963.8	73330 ppb	963.8	1.31%
K 766.490 Radial†	46324.3	11608 ug/L		140.5	11608 ppb	140.5	1.21%

Mg 279.077 IEC†	214.7	11260 ug/L	190.4	11260 ppb	190.4	1.69%
Mn 257.610†	2210269.3	4309.1 ug/L	8.28	4309.1 ppb	8.28	0.19%
Mo 202.031†	-12.3	4.3112 ug/L	0.49441	4.3112 ppb	0.49441	11.47%
Na 589.592 Radial†	943.0	536.54 ug/L	15.167	536.54 ppb	15.167	2.83%
Ni 231.604†	884.9	42.905 ug/L	0.2181	42.905 ppb	0.2181	0.51%
P 214.914†	1453.3	1420.0 ug/L	17.96	1420.0 ppb	17.96	1.26%
Pb 220.353†	451.6	110.50 ug/L	1.570	110.50 ppb	1.570	1.42%
S 181.975 Axial†	551.6	1347.5 ug/L	13.27	1347.5 ppb	13.27	0.99%
Sb 206.836†	1.2	-9.3216 ug/L	0.91182	-9.3216 ppb	0.91182	9.78%
Se 196.026†	-178.7	0.4430 ug/L	8.01236	0.4430 ppb	8.01236	>999.9%
Si 251.611†	652884.3	36535 ug/L	39.2	36535 ppb	39.2	0.11%
Sn 189.927†	-108.3	-22.365 ug/L	1.3154	-22.365 ppb	1.3154	5.88%
Sr 421.552†	16324.9	207.60 ug/L	2.790	207.60 ppb	2.790	1.34%
Ti 334.940†	891059.7	2374.1 ug/L	1.74	2374.1 ppb	1.74	0.07%
Tl 190.801†	-74.0	-2.4855 ug/L	0.41445	-2.4855 ppb	0.41445	16.67%
U 409.014†	-1744.0	-104.13 ug/L	4.103	-104.13 ppb	4.103	3.94%
V 292.402†	9530.5	112.93 ug/L	0.753	112.93 ppb	0.753	0.67%
Zn 213.857†	81146.7	1427.4 ug/L	16.66	1427.4 ppb	16.66	1.17%
SiO2†	648083.6	77471 ug/L	354.2	77471 ppb	354.2	0.46%

Sequence No.: 86

Sample ID: 248198012|959127|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 107

Date Collected: 3/30/2010 03:47:16

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248198012|959127|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3977.5	3977.5	127 %		03:49:29
1	Y RADIAL	4725.7	4725.7	137.7 %		03:49:29
1	Al 396.153Radial†	48602.7	38503.9	50635 ug/L	50635 ppb	03:49:09
1	Ca 317.933Radial†	17869.5	14106.2	33295 ug/L	33295 ppb	03:49:09
1	Fe 238.204 Radial†	5494.8	4336.8	70916 ug/L	70916 ppb	03:49:29
1	K 766.490 Radial†	59626.9	44305.3	11100 ug/L	11100 ppb	03:49:09
1	Mg 279.077 IEC†	314.7	247.3	12982 ug/L	12982 ppb	03:49:29
1	Na 589.592 Radial†	608.5	1088.5	619.32 ug/L	619.32 ppb	03:49:09
1	Sr 421.552†	25499.6	20122.9	255.92 ug/L	255.92 ppb	03:49:09
1	Sc 361.383	684802.6	684802.6	138.16 %		03:50:27
1	Y 371.029	584813.8	584813.8	141.29 %		03:50:27
1	Ag 328.068†	-3304.4	-2512.1	1.2492 ug/L	1.2492 ppb	03:50:32
1	As 188.979†	-30.2	0.8	38.087 ug/L	38.087 ppb	03:50:52
1	B 249.677†	1642.5	1596.8	50.071 ug/L	50.071 ppb	03:50:32
1	Ba 233.527†	86299.5	62470.2	902.61 ug/L	902.61 ppb	03:50:32
1	Be 313.107†	-4176.6	867.7	6.0071 ug/L	6.0071 ppb	03:50:32
1	Cd 226.502†	414.2	502.6	3.9876 ug/L	3.9876 ppb	03:50:52
1	Co 228.616†	1161.3	898.2	27.364 ug/L	27.364 ppb	03:50:52
1	Cr 267.716†	3252.9	2278.2	58.322 ug/L	58.322 ppb	03:50:52
1	Cu 324.752†	30819.2	17083.3	91.542 ug/L	91.542 ppb	03:50:32
1	Mn 257.610†	2753188.3	1992301.7	3884.5 ug/L	3884.5 ppb	03:50:27
1	Mo 202.031†	9.9	1.6	6.1244 ug/L	6.1244 ppb	03:50:52
1	Ni 231.604†	1410.0	943.7	45.754 ug/L	45.754 ppb	03:50:52
1	P 214.914†	2857.8	1854.1	1821.9 ug/L	1821.9 ppb	03:50:52
1	Pb 220.353†	1062.4	831.0	201.42 ug/L	201.42 ppb	03:50:52
1	S 181.975 Axial†	1172.9	813.6	1990.4 ug/L	1990.4 ppb	03:50:52
1	Sb 206.836†	51.3	-1.4	-11.121 ug/L	-11.121 ppb	03:50:52
1	Se 196.026†	-294.9	-188.0	-14.975 ug/L	-14.975 ppb	03:50:52
1	Si 251.611†	961922.6	695638.2	38928 ug/L	38928 ppb	03:50:27
1	Sn 189.927†	-145.1	-115.7	-24.275 ug/L	-24.275 ppb	03:50:52
1	Ti 334.940†	1249539.3	905834.0	2413.8 ug/L	2413.8 ppb	03:50:27
1	Tl 190.801†	-138.5	-73.2	-3.7852 ug/L	-3.7852 ppb	03:50:52
1	U 409.014†	-5386.9	-1159.1	-71.769 ug/L	-71.769 ppb	03:50:32
1	V 292.402†	12552.2	10671.5	128.47 ug/L	128.47 ppb	03:50:32
1	Zn 213.857†	27847.4	19503.5	334.76 ug/L	334.76 ppb	03:50:32
1	SiO2†	975960.3	705798.0	84370 ug/L	84370 ppb	03:52:01
2	Sc Radial	3999.1	3999.1	127 %		03:49:55
2	Y RADIAL	4747.7	4747.7	138.3 %		03:49:55
2	Al 396.153Radial†	48424.1	38156.4	50178 ug/L	50178 ppb	03:49:34
2	Ca 317.933Radial†	17817.7	13989.3	33019 ug/L	33019 ppb	03:49:34
2	Fe 238.204 Radial†	5533.1	4343.4	71025 ug/L	71025 ppb	03:49:55
2	K 766.490 Radial†	59611.8	44039.4	11034 ug/L	11034 ppb	03:49:34
2	Mg 279.077 IEC†	315.2	246.3	12931 ug/L	12931 ppb	03:49:55
2	Na 589.592 Radial†	645.1	1114.7	634.23 ug/L	634.23 ppb	03:49:34
2	Sr 421.552†	25424.4	19955.2	253.78 ug/L	253.78 ppb	03:49:34
2	Sc 361.383	688294.3	688294.3	138.87 %		03:50:58
2	Y 371.029	588411.6	588411.6	142.16 %		03:50:58
2	Ag 328.068†	-3384.1	-2557.4	0.9094 ug/L	0.9094 ppb	03:51:03
2	As 188.979†	-24.9	4.7	41.128 ug/L	41.128 ppb	03:51:23
2	B 249.677†	1645.3	1592.7	49.897 ug/L	49.897 ppb	03:51:03
2	Ba 233.527†	87041.0	62687.3	905.75 ug/L	905.75 ppb	03:51:03
2	Be 313.107†	-4214.3	855.9	5.9854 ug/L	5.9854 ppb	03:51:03
2	Cd 226.502†	396.1	488.0	3.6509 ug/L	3.6509 ppb	03:51:23
2	Co 228.616†	1157.6	891.3	27.121 ug/L	27.121 ppb	03:51:23
2	Cr 267.716†	3339.7	2328.7	59.455 ug/L	59.455 ppb	03:51:23
2	Cu 324.752†	31074.3	17153.9	91.905 ug/L	91.905 ppb	03:51:03
2	Mn 257.610†	2757626.1	1985388.4	3871.1 ug/L	3871.1 ppb	03:50:58
2	Mo 202.031†	7.2	-0.4	5.8505 ug/L	5.8505 ppb	03:51:23
2	Ni 231.604†	1434.0	955.8	46.341 ug/L	46.341 ppb	03:51:23

2	P 214.914†	2932.8	1897.7	1865.9 ug/L	1865.9 ppb	03:51:23
2	Pb 220.353†	1085.7	843.9	204.32 ug/L	204.32 ppb	03:51:23
2	S 181.975 Axial†	1198.3	827.6	2024.8 ug/L	2024.8 ppb	03:51:23
2	Sb 206.836†	59.0	4.0	-7.8687 ug/L	-7.8687 ppb	03:51:23
2	Se 196.026†	-291.5	-184.5	-10.755 ug/L	-10.755 ppb	03:51:23
2	Si 251.611†	962883.5	692798.2	38769 ug/L	38769 ppb	03:50:58
2	Sn 189.927†	-152.2	-120.3	-25.908 ug/L	-25.908 ppb	03:51:23
2	Ti 334.940†	1252588.2	903441.6	2407.4 ug/L	2407.4 ppb	03:50:58
2	Tl 190.801†	-123.6	-62.0	2.5260 ug/L	2.5260 ppb	03:51:23
2	U 409.014†	-5205.8	-1009.0	-63.548 ug/L	-63.548 ppb	03:51:03
2	V 292.402†	12749.9	10767.8	129.74 ug/L	129.74 ppb	03:51:03
2	Zn 213.857†	28162.2	19627.9	336.95 ug/L	336.95 ppb	03:51:03
2	SiO2†	971528.6	699023.2	83560 ug/L	83560 ppb	03:52:07
3	Sc Radial	3958.1	3958.1	126 %		03:50:20
3	Y RADIAL	4697.8	4697.8	136.9 %		03:50:20
3	Al 396.153Radial†	48097.3	38291.2	50356 ug/L	50356 ppb	03:50:00
3	Ca 317.933Radial†	17650.2	14001.3	33047 ug/L	33047 ppb	03:50:00
3	Fe 238.204 Radial†	5510.4	4370.5	71468 ug/L	71468 ppb	03:50:20
3	K 766.490 Radial†	58923.4	43978.0	11018 ug/L	11018 ppb	03:50:00
3	Mg 279.077 IEC†	318.0	251.1	13184 ug/L	13184 ppb	03:50:20
3	Na 589.592 Radial†	622.1	1101.6	626.81 ug/L	626.81 ppb	03:50:00
3	Sr 421.552†	25204.7	19987.7	254.20 ug/L	254.20 ppb	03:50:00
3	Sc 361.383	699110.4	699110.4	141.05 %		03:51:29
3	Y 371.029	597286.7	597286.7	144.31 %		03:51:29
3	Ag 328.068†	-3352.8	-2497.5	1.5324 ug/L	1.5324 ppb	03:51:34
3	As 188.979†	-21.0	7.7	43.630 ug/L	43.630 ppb	03:51:54
3	B 249.677†	1598.4	1541.1	47.833 ug/L	47.833 ppb	03:51:34
3	Ba 233.527†	86956.3	61657.6	890.92 ug/L	890.92 ppb	03:51:34
3	Be 313.107†	-4287.1	851.2	5.9919 ug/L	5.9919 ppb	03:51:34
3	Cd 226.502†	412.1	495.0	3.7611 ug/L	3.7611 ppb	03:51:54
3	Co 228.616†	1171.6	888.4	26.988 ug/L	26.988 ppb	03:51:54
3	Cr 267.716†	3337.6	2290.0	58.638 ug/L	58.638 ppb	03:51:54
3	Cu 324.752†	31127.3	16845.2	90.342 ug/L	90.342 ppb	03:51:34
3	Mn 257.610†	2799667.0	1984471.6	3869.3 ug/L	3869.3 ppb	03:51:29
3	Mo 202.031†	-2.9	-7.7	4.8659 ug/L	4.8659 ppb	03:51:54
3	Ni 231.604†	1414.2	925.8	44.886 ug/L	44.886 ppb	03:51:54
3	P 214.914†	2910.7	1849.3	1816.7 ug/L	1816.7 ppb	03:51:54
3	Pb 220.353†	1077.4	825.9	200.10 ug/L	200.10 ppb	03:51:54
3	S 181.975 Axial†	1202.2	817.0	1998.8 ug/L	1998.8 ppb	03:51:54
3	Sb 206.836†	64.5	7.3	-5.8963 ug/L	-5.8963 ppb	03:51:54
3	Se 196.026†	-288.9	-179.4	-3.6325 ug/L	-3.6325 ppb	03:51:54
3	Si 251.611†	981416.0	695209.8	38904 ug/L	38904 ppb	03:51:29
3	Sn 189.927†	-149.8	-116.9	-24.683 ug/L	-24.683 ppb	03:51:54
3	Ti 334.940†	1274457.1	904991.0	2411.5 ug/L	2411.5 ppb	03:51:29
3	Tl 190.801†	-124.8	-61.4	2.8835 ug/L	2.8835 ppb	03:51:54
3	U 409.014†	-5254.2	-985.3	-62.299 ug/L	-62.299 ppb	03:51:34
3	V 292.402†	12706.9	10595.3	127.38 ug/L	127.38 ppb	03:51:34
3	Zn 213.857†	28084.8	19259.3	330.36 ug/L	330.36 ppb	03:51:34
3	SiO2†	980874.4	694825.4	83059 ug/L	83059 ppb	03:52:12

Mean Data: 248198012|959127|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	690735.8	139.36 %	1.505			1.08%
Sc Radial	3978.2	127 %	0.7			0.52%
Y 371.029	590170.7	142.59 %	1.551			1.09%
Y RADIAL	4723.7	137.6 %	0.73			0.53%
Ag 328.068†	-2522.4	1.2303 ug/L	0.31194	1.2303 ppb	0.31194	25.35%
Al 396.153Radial†	38317.2	50390 ug/L	230.4	50390 ppb	230.4	0.46%
As 188.979†	4.4	40.948 ug/L	2.7761	40.948 ppb	2.7761	6.78%
B 249.677†	1576.9	49.267 ug/L	1.2449	49.267 ppb	1.2449	2.53%
Ba 233.527†	62271.7	899.76 ug/L	7.816	899.76 ppb	7.816	0.87%
Be 313.107†	858.3	5.9948 ug/L	0.01117	5.9948 ppb	0.01117	0.19%
Ca 317.933Radial†	14032.3	33120 ug/L	151.7	33120 ppb	151.7	0.46%
Cd 226.502†	495.2	3.7999 ug/L	0.17166	3.7999 ppb	0.17166	4.52%
Co 228.616†	892.6	27.158 ug/L	0.1904	27.158 ppb	0.1904	0.70%
Cr 267.716†	2299.0	58.805 ug/L	0.5844	58.805 ppb	0.5844	0.99%
Cu 324.752†	17027.5	91.263 ug/L	0.8177	91.263 ppb	0.8177	0.90%
Fe 238.204 Radial†	4350.2	71137 ug/L	292.1	71137 ppb	292.1	0.41%
K 766.490 Radial†	44107.6	11051 ug/L	43.6	11051 ppb	43.6	0.39%

Mg 279.077 IEC†	248.2	13032 ug/L	133.9	13032 ppb	133.9	1.03%
Mn 257.610†	1987387.2	3875.0 ug/L	8.31	3875.0 ppb	8.31	0.21%
Mo 202.031†	-2.2	5.6136 ug/L	0.66186	5.6136 ppb	0.66186	11.79%
Na 589.592 Radial†	1101.6	626.79 ug/L	7.456	626.79 ppb	7.456	1.19%
Ni 231.604†	941.8	45.660 ug/L	0.7321	45.660 ppb	0.7321	1.60%
P 214.914†	1867.0	1834.8 ug/L	27.00	1834.8 ppb	27.00	1.47%
Pb 220.353†	833.6	201.95 ug/L	2.157	201.95 ppb	2.157	1.07%
S 181.975 Axial†	819.4	2004.6 ug/L	17.92	2004.6 ppb	17.92	0.89%
Sb 206.836†	3.3	-8.2955 ug/L	2.63858	-8.2955 ppb	2.63858	31.81%
Se 196.026†	-183.9	-9.7873 ug/L	5.73261	-9.7873 ppb	5.73261	58.57%
Si 251.611†	694548.7	38867 ug/L	85.7	38867 ppb	85.7	0.22%
Sn 189.927†	-117.6	-24.955 ug/L	0.8500	-24.955 ppb	0.8500	3.41%
Sr 421.552†	20022.0	254.63 ug/L	1.131	254.63 ppb	1.131	0.44%
Ti 334.940†	904755.5	2410.9 ug/L	3.24	2410.9 ppb	3.24	0.13%
Tl 190.801†	-65.5	0.5414 ug/L	3.75128	0.5414 ppb	3.75128	692.83%
U 409.014†	-1051.1	-65.872 ug/L	5.1446	-65.872 ppb	5.1446	7.81%
V 292.402†	10678.2	128.53 ug/L	1.181	128.53 ppb	1.181	0.92%
Zn 213.857†	19463.6	334.02 ug/L	3.357	334.02 ppb	3.357	1.00%
SiO2†	699882.2	83663 ug/L	661.8	83663 ppb	661.8	0.79%

Sequence No.: 87

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/30/2010 03:54:24

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3917.6	3917.6	125 %		03:56:37
1	Y RADIAL	4402.0	4402.0	128.3 %		03:56:17
1	Al 396.153Radial†	4569.7	3755.0	4913.5 ug/L	4913.5 ppb	03:56:17
1	Ca 317.933Radial†	2582.6	2054.4	4849.0 ug/L	4849.0 ppb	03:56:37
1	Fe 238.204 Radial†	395.4	310.9	5098.7 ug/L	5098.7 ppb	03:56:37
1	K 766.490 Radial†	28644.9	20163.4	5051.2 ug/L	5051.2 ppb	03:56:17
1	Mg 279.077 IEC†	121.2	95.8	5059.8 ug/L	5059.8 ppb	03:56:37
1	Na 589.592 Radial†	21883.7	18169.4	10338 ug/L	10338 ppb	03:56:17
1	Sr 421.552†	51374.4	41196.3	524.39 ug/L	524.39 ppb	03:56:17
1	Sc 361.383	690788.6	690788.6	139.37 %		03:57:33
1	Y 371.029	444950.5	444950.5	107.50 %		03:57:39
1	Ag 328.068†	85670.9	61349.7	512.34 ug/L	512.34 ppb	03:57:39
1	As 188.979†	895.8	665.3	522.09 ug/L	522.09 ppb	03:57:59
1	B 249.677†	17360.5	12864.4	494.66 ug/L	494.66 ppb	03:57:39
1	Ba 233.527†	48979.3	35151.2	507.77 ug/L	507.77 ppb	03:57:39
1	Be 313.107†	1152719.0	830984.7	513.48 ug/L	513.48 ppb	03:57:33
1	Cd 226.502†	31294.3	22657.0	509.11 ug/L	509.11 ppb	03:57:39
1	Co 228.616†	19170.0	13812.5	507.93 ug/L	507.93 ppb	03:57:39
1	Cr 267.716†	31859.5	22783.4	506.92 ug/L	506.92 ppb	03:57:39
1	Cu 324.752†	144342.2	98344.5	505.14 ug/L	505.14 ppb	03:57:39
1	Mn 257.610†	359220.1	257324.1	501.18 ug/L	501.18 ppb	03:57:39
1	Mo 202.031†	5042.1	3612.2	506.40 ug/L	506.40 ppb	03:57:59
1	Ni 231.604†	14635.9	10424.7	505.33 ug/L	505.33 ppb	03:57:39
1	P 214.914†	3778.5	2496.8	2438.8 ug/L	2438.8 ppb	03:57:59
1	Pb 220.353†	2910.8	2150.6	506.87 ug/L	506.87 ppb	03:57:59
1	S 181.975 Axial†	645.3	427.7	1050.4 ug/L	1050.4 ppb	03:57:59
1	Sb 206.836†	1201.4	823.5	520.06 ug/L	520.06 ppb	03:57:59
1	Se 196.026†	603.9	458.8	547.29 ug/L	547.29 ppb	03:57:59
1	Si 251.611†	65004.7	46052.4	2570.8 ug/L	2570.8 ppb	03:57:39
1	Sn 189.927†	2057.1	1465.4	505.72 ug/L	505.72 ppb	03:57:59
1	Ti 334.940†	259798.1	187842.1	499.65 ug/L	499.65 ppb	03:57:39
1	Tl 190.801†	1199.7	887.9	511.64 ug/L	511.64 ppb	03:57:59
1	U 409.014†	10072.7	9967.1	544.92 ug/L	544.92 ppb	03:57:39
1	V 292.402†	51342.2	38425.2	515.39 ug/L	515.39 ppb	03:57:39
1	Zn 213.857†	41062.4	28810.8	506.13 ug/L	506.13 ppb	03:57:39
1	SiO2†	65831.1	46644.8	5562.1 ug/L	5562.1 ppb	03:59:06
2	Sc Radial	3938.9	3938.9	125 %		03:57:02
2	Y RADIAL	4370.6	4370.6	127.3 %		03:56:42
2	Al 396.153Radial†	4541.8	3712.8	4858.3 ug/L	4858.3 ppb	03:56:42
2	Ca 317.933Radial†	2624.9	2077.0	4902.3 ug/L	4902.3 ppb	03:57:02
2	Fe 238.204 Radial†	393.2	307.4	5042.9 ug/L	5042.9 ppb	03:57:02
2	K 766.490 Radial†	28630.4	20027.0	5017.1 ug/L	5017.1 ppb	03:56:42
2	Mg 279.077 IEC†	120.5	94.7	5002.3 ug/L	5002.3 ppb	03:57:02
2	Na 589.592 Radial†	21771.7	17984.7	10233 ug/L	10233 ppb	03:56:42
2	Sr 421.552†	51046.4	40710.8	518.21 ug/L	518.21 ppb	03:56:42
2	Sc 361.383	693240.7	693240.7	139.86 %		03:58:04
2	Y 371.029	447170.2	447170.2	108.04 %		03:58:09
2	Ag 328.068†	87152.5	62191.7	519.35 ug/L	519.35 ppb	03:58:09
2	As 188.979†	901.4	667.1	523.53 ug/L	523.53 ppb	03:58:29
2	B 249.677†	17894.8	13202.3	507.69 ug/L	507.69 ppb	03:58:09
2	Ba 233.527†	49923.1	35701.6	515.72 ug/L	515.72 ppb	03:58:09
2	Be 313.107†	1159184.5	832681.8	514.55 ug/L	514.55 ppb	03:58:04
2	Cd 226.502†	32005.8	23086.2	518.77 ug/L	518.77 ppb	03:58:09
2	Co 228.616†	19598.9	14070.5	517.39 ug/L	517.39 ppb	03:58:09
2	Cr 267.716†	32441.5	23118.7	514.37 ug/L	514.37 ppb	03:58:09
2	Cu 324.752†	146967.8	99855.5	512.90 ug/L	512.90 ppb	03:58:09
2	Mn 257.610†	366271.6	261454.0	509.22 ug/L	509.22 ppb	03:58:09
2	Mo 202.031†	5019.8	3583.5	502.37 ug/L	502.37 ppb	03:58:29
2	Ni 231.604†	14875.5	10558.8	511.83 ug/L	511.83 ppb	03:58:09

2	P 214.914†	3772.2	2482.7	2423.0 ug/L	2423.0 ppb	03:58:29
2	Pb 220.353†	2943.4	2166.5	510.59 ug/L	510.59 ppb	03:58:29
2	S 181.975 Axial†	640.6	422.7	1038.1 ug/L	1038.1 ppb	03:58:29
2	Sb 206.836†	1195.1	816.0	515.41 ug/L	515.41 ppb	03:58:29
2	Se 196.026†	598.4	453.4	540.80 ug/L	540.80 ppb	03:58:29
2	Si 251.611†	66398.5	46883.9	2617.4 ug/L	2617.4 ppb	03:58:09
2	Sn 189.927†	2067.8	1467.8	506.55 ug/L	506.55 ppb	03:58:29
2	Ti 334.940†	264802.1	190760.5	507.42 ug/L	507.42 ppb	03:58:09
2	Tl 190.801†	1216.3	896.7	516.71 ug/L	516.71 ppb	03:58:29
2	U 409.014†	10139.6	9989.4	546.14 ug/L	546.14 ppb	03:58:09
2	V 292.402†	52415.0	39062.0	523.75 ug/L	523.75 ppb	03:58:09
2	Zn 213.857†	41898.2	29304.2	514.83 ug/L	514.83 ppb	03:58:09
2	SiO2†	65302.1	46099.6	5497.0 ug/L	5497.0 ppb	03:59:11
3	Sc Radial	3843.1	3843.1	122 %		03:57:27
3	Y RADIAL	4341.1	4341.1	126.5 %		03:57:07
3	Al 396.153Radial†	4504.4	3772.7	4936.8 ug/L	4936.8 ppb	03:57:07
3	Ca 317.933Radial†	2550.6	2068.5	4882.2 ug/L	4882.2 ppb	03:57:27
3	Fe 238.204 Radial†	380.3	304.7	4998.1 ug/L	4998.1 ppb	03:57:27
3	K 766.490 Radial†	28479.1	20473.5	5129.0 ug/L	5129.0 ppb	03:57:07
3	Mg 279.077 IEC†	121.3	97.7	5160.8 ug/L	5160.8 ppb	03:57:27
3	Na 589.592 Radial†	21623.5	18297.1	10411 ug/L	10411 ppb	03:57:07
3	Sr 421.552†	50740.9	41477.4	527.97 ug/L	527.97 ppb	03:57:07
3	Sc 361.383	678115.5	678115.5	136.81 %		03:58:35
3	Y 371.029	443195.2	443195.2	107.08 %		03:58:40
3	Ag 328.068†	85684.1	62508.2	521.96 ug/L	521.96 ppb	03:58:40
3	As 188.979†	881.6	667.0	523.42 ug/L	523.42 ppb	03:59:00
3	B 249.677†	17498.5	13198.1	507.52 ug/L	507.52 ppb	03:58:40
3	Ba 233.527†	49408.8	36121.8	521.78 ug/L	521.78 ppb	03:58:40
3	Be 313.107†	1141815.5	838472.3	518.12 ug/L	518.12 ppb	03:58:35
3	Cd 226.502†	31638.8	23328.4	524.22 ug/L	524.22 ppb	03:58:40
3	Co 228.616†	19352.8	14203.2	522.27 ug/L	522.27 ppb	03:58:40
3	Cr 267.716†	32076.0	23368.9	519.92 ug/L	519.92 ppb	03:58:40
3	Cu 324.752†	144054.4	100069.8	513.99 ug/L	513.99 ppb	03:58:40
3	Mn 257.610†	361968.0	264149.4	514.46 ug/L	514.46 ppb	03:58:40
3	Mo 202.031†	4943.2	3607.5	505.73 ug/L	505.73 ppb	03:59:00
3	Ni 231.604†	14757.4	10709.7	519.14 ug/L	519.14 ppb	03:58:40
3	P 214.914†	3703.3	2492.5	2432.8 ug/L	2432.8 ppb	03:59:00
3	Pb 220.353†	2874.0	2162.7	509.73 ug/L	509.73 ppb	03:59:00
3	S 181.975 Axial†	628.6	424.2	1041.7 ug/L	1041.7 ppb	03:59:00
3	Sb 206.836†	1174.1	819.7	517.76 ug/L	517.76 ppb	03:59:00
3	Se 196.026†	565.1	438.5	523.53 ug/L	523.53 ppb	03:59:00
3	Si 251.611†	65328.7	47160.9	2632.9 ug/L	2632.9 ppb	03:58:40
3	Sn 189.927†	2033.9	1476.0	509.37 ug/L	509.37 ppb	03:59:00
3	Ti 334.940†	260586.7	191902.2	510.44 ug/L	510.44 ppb	03:58:40
3	Tl 190.801†	1184.5	892.9	514.56 ug/L	514.56 ppb	03:59:00
3	U 409.014†	10027.6	10069.3	550.51 ug/L	550.51 ppb	03:58:40
3	V 292.402†	51463.4	39202.3	525.67 ug/L	525.67 ppb	03:58:40
3	Zn 213.857†	41376.5	29591.0	519.88 ug/L	519.88 ppb	03:58:40
3	SiO2†	65378.1	47196.5	5628.1 ug/L	5628.1 ppb	03:59:16

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	687381.6	138.68 %	1.638			1.18%
Sc Radial	3899.9	124 %	1.6			1.29%
Y 371.029	445105.3	107.54 %	0.481			0.45%
Y RADIAL	4371.2	127.4 %	0.89			0.70%
Ag 328.068†	62016.5	517.88 ug/L	4.974	517.88 ppb	4.974	0.96%
QC value within limits for Ag 328.068 Recovery = 103.58%						
Al 396.153Radial†	3746.8	4902.9 ug/L	40.35	4902.9 ppb	40.35	0.82%
QC value within limits for Al 396.153Radial Recovery = 98.06%						
As 188.979†	666.5	523.01 ug/L	0.804	523.01 ppb	0.804	0.15%
QC value within limits for As 188.979 Recovery = 104.60%						
B 249.677†	13088.3	503.29 ug/L	7.478	503.29 ppb	7.478	1.49%
QC value within limits for B 249.677 Recovery = 100.66%						
Ba 233.527†	35658.2	515.09 ug/L	7.024	515.09 ppb	7.024	1.36%
QC value within limits for Ba 233.527 Recovery = 103.02%						
Be 313.107†	834046.3	515.38 ug/L	2.431	515.38 ppb	2.431	0.47%
QC value within limits for Be 313.107 Recovery = 103.08%						
Ca 317.933Radial†	2066.6	4877.8 ug/L	26.88	4877.8 ppb	26.88	0.55%

QC value within limits for Ca 317.933 Radial Recovery = 97.56%

Cd 226.502†	23023.9	517.36 ug/L	7.652	517.36 ppb	7.652	1.48%
QC value within limits for Cd 226.502 Recovery = 103.47%						
Co 228.616†	14028.8	515.86 ug/L	7.293	515.86 ppb	7.293	1.41%
QC value within limits for Co 228.616 Recovery = 103.17%						
Cr 267.716†	23090.4	513.74 ug/L	6.524	513.74 ppb	6.524	1.27%
QC value within limits for Cr 267.716 Recovery = 102.75%						
Cu 324.752†	99423.3	510.68 ug/L	4.826	510.68 ppb	4.826	0.95%
QC value within limits for Cu 324.752 Recovery = 102.14%						
Fe 238.204 Radial†	307.7	5046.6 ug/L	50.41	5046.6 ppb	50.41	1.00%
QC value within limits for Fe 238.204 Radial Recovery = 100.93%						
K 766.490 Radial†	20221.3	5065.8 ug/L	57.35	5065.8 ppb	57.35	1.13%
QC value within limits for K 766.490 Radial Recovery = 101.32%						
Mg 279.077 IEC†	96.1	5074.3 ug/L	80.26	5074.3 ppb	80.26	1.58%
QC value within limits for Mg 279.077 IEC Recovery = 101.49%						
Mn 257.610†	260975.8	508.29 ug/L	6.685	508.29 ppb	6.685	1.32%
QC value within limits for Mn 257.610 Recovery = 101.66%						
Mo 202.031†	3601.1	504.83 ug/L	2.161	504.83 ppb	2.161	0.43%
QC value within limits for Mo 202.031 Recovery = 100.97%						
Na 589.592 Radial†	18150.4	10327 ug/L	89.4	10327 ppb	89.4	0.87%
QC value within limits for Na 589.592 Radial Recovery = 103.27%						
Ni 231.604†	10564.4	512.10 ug/L	6.912	512.10 ppb	6.912	1.35%
QC value within limits for Ni 231.604 Recovery = 102.42%						
P 214.914†	2490.7	2431.5 ug/L	7.99	2431.5 ppb	7.99	0.33%
QC value within limits for P 214.914 Recovery = 97.26%						
Pb 220.353†	2159.9	509.07 ug/L	1.949	509.07 ppb	1.949	0.38%
QC value within limits for Pb 220.353 Recovery = 101.81%						
S 181.975 Axial†	424.9	1043.4 ug/L	6.33	1043.4 ppb	6.33	0.61%
QC value within limits for S 181.975 Axial Recovery = 104.34%						
Sb 206.836†	819.7	517.74 ug/L	2.321	517.74 ppb	2.321	0.45%
QC value within limits for Sb 206.836 Recovery = 103.55%						
Se 196.026†	450.2	537.21 ug/L	12.280	537.21 ppb	12.280	2.29%
QC value within limits for Se 196.026 Recovery = 107.44%						
Si 251.611†	46699.1	2607.0 ug/L	32.30	2607.0 ppb	32.30	1.24%
QC value within limits for Si 251.611 Recovery = 104.28%						
Sn 189.927†	1469.7	507.21 ug/L	1.912	507.21 ppb	1.912	0.38%
QC value within limits for Sn 189.927 Recovery = 101.44%						
Sr 421.552†	41128.1	523.52 ug/L	4.937	523.52 ppb	4.937	0.94%
QC value within limits for Sr 421.552 Recovery = 104.70%						
Ti 334.940†	190168.3	505.84 ug/L	5.568	505.84 ppb	5.568	1.10%
QC value within limits for Ti 334.940 Recovery = 101.17%						
Tl 190.801†	892.5	514.31 ug/L	2.546	514.31 ppb	2.546	0.50%
QC value within limits for Tl 190.801 Recovery = 102.86%						
U 409.014†	10008.6	547.19 ug/L	2.938	547.19 ppb	2.938	0.54%
QC value within limits for U 409.014 Recovery = 109.44%						
V 292.402†	38896.5	521.60 ug/L	5.470	521.60 ppb	5.470	1.05%
QC value within limits for V 292.402 Recovery = 104.32%						
Zn 213.857†	29235.3	513.61 ug/L	6.954	513.61 ppb	6.954	1.35%
QC value within limits for Zn 213.857 Recovery = 102.72%						
SiO2†	46647.0	5562.4 ug/L	65.52	5562.4 ppb	65.52	1.18%
QC value within limits for SiO2 Recovery = 104.02%						

All analyte(s) passed QC.

Sequence No.: 88

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/30/2010 04:01:26

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	3904.8	3904.8	124 %		04:03:38
1	Y RADIAL	4368.9	4368.9	127.3 %		04:03:18
1	Al 396.153Radial†	-93.2	12.7	16.679 ug/L	16.679 ppb	04:03:38
1	Ca 317.933Radial†	15.1	-5.9	-14.024 ug/L	-14.024 ppb	04:03:38
1	Fe 238.204 Radial†	8.1	0.2	2.5745 ug/L	2.5745 ppb	04:03:38
1	K 766.490 Radial†	3059.6	-361.1	-90.562 ug/L	-90.562 ppb	04:03:18
1	Mg 279.077 IEC†	2.8	0.8	39.978 ug/L	39.978 ppb	04:03:38
1	Na 589.592 Radial†	-828.4	-59.4	-33.816 ug/L	-33.816 ppb	04:03:18
1	Sr 421.552†	65.2	20.2	0.2573 ug/L	0.2573 ppb	04:03:18
1	Sc 361.383	690371.4	690371.4	139.29 %		04:04:35
1	Y 371.029	541977.1	541977.1	130.94 %		04:04:35
1	Ag 328.068†	212.6	32.2	0.2509 ug/L	0.2509 ppb	04:04:35
1	As 188.979†	-23.9	5.5	4.2729 ug/L	4.2729 ppb	04:04:55
1	B 249.677†	-461.8	76.4	2.9479 ug/L	2.9479 ppb	04:04:55
1	Ba 233.527†	9.4	14.5	0.2198 ug/L	0.2198 ppb	04:04:55
1	Be 313.107†	-4186.2	885.2	0.5483 ug/L	0.5483 ppb	04:04:35
1	Cd 226.502†	-199.1	59.9	1.3549 ug/L	1.3549 ppb	04:04:55
1	Co 228.616†	-55.9	17.6	0.6461 ug/L	0.6461 ppb	04:04:55
1	Cr 267.716†	76.3	-21.5	-0.4879 ug/L	-0.4879 ppb	04:04:55
1	Cu 324.752†	5431.4	-1323.8	-6.8255 ug/L	-6.8255 ppb	04:04:35
1	Mn 257.610†	514.8	-52.5	-0.1035 ug/L	-0.1035 ppb	04:04:55
1	Mo 202.031†	15.5	5.5	0.7764 ug/L	0.7764 ppb	04:04:55
1	Ni 231.604†	105.3	-1.3	-0.0616 ug/L	-0.0616 ppb	04:04:55
1	P 214.914†	208.2	-64.8	-64.519 ug/L	-64.519 ppb	04:04:55
1	Pb 220.353†	-89.5	-2.2	-0.5015 ug/L	-0.5015 ppb	04:04:55
1	S 181.975 Axial†	35.3	-10.0	-24.485 ug/L	-24.485 ppb	04:04:55
1	Sb 206.836†	42.0	-8.3	-5.0835 ug/L	-5.0835 ppb	04:04:55
1	Se 196.026†	-21.3	10.2	11.783 ug/L	11.783 ppb	04:04:55
1	Si 251.611†	553.7	-192.0	-10.755 ug/L	-10.755 ppb	04:04:55
1	Sn 189.927†	8.3	-4.7	-1.6129 ug/L	-1.6129 ppb	04:04:55
1	Ti 334.940†	-1408.3	421.8	1.0970 ug/L	1.0970 ppb	04:04:35
1	Tl 190.801†	-42.6	-3.5	-2.0300 ug/L	-2.0300 ppb	04:04:55
1	U 409.014†	-2632.8	849.6	46.597 ug/L	46.597 ppb	04:04:35
1	V 292.402†	-1674.1	384.5	5.1881 ug/L	5.1881 ppb	04:04:35
1	Zn 213.857†	629.6	-200.2	-3.5394 ug/L	-3.5394 ppb	04:04:55
1	SiO2†	586.2	-169.2	-20.244 ug/L	-20.244 ppb	04:05:51
2	Sc Radial	3937.9	3937.9	125 %		04:04:03
2	Y RADIAL	4403.2	4403.2	128.3 %		04:03:43
2	Al 396.153Radial†	-85.7	19.3	25.399 ug/L	25.399 ppb	04:04:03
2	Ca 317.933Radial†	16.1	-5.3	-12.426 ug/L	-12.426 ppb	04:04:03
2	Fe 238.204 Radial†	7.0	-0.8	-13.653 ug/L	-13.653 ppb	04:04:03
2	K 766.490 Radial†	3235.8	-241.2	-60.486 ug/L	-60.486 ppb	04:03:43
2	Mg 279.077 IEC†	1.3	-0.4	-20.880 ug/L	-20.880 ppb	04:04:03
2	Na 589.592 Radial†	-791.1	-24.1	-13.715 ug/L	-13.715 ppb	04:03:43
2	Sr 421.552†	28.6	-9.5	-0.1202 ug/L	-0.1202 ppb	04:03:43
2	Sc 361.383	680155.0	680155.0	137.22 %		04:05:00
2	Y 371.029	535077.9	535077.9	129.28 %		04:05:00
2	Ag 328.068†	156.7	-6.2	-0.0812 ug/L	-0.0812 ppb	04:05:00
2	As 188.979†	-28.1	2.1	1.6469 ug/L	1.6469 ppb	04:05:20
2	B 249.677†	-488.2	52.2	2.0183 ug/L	2.0183 ppb	04:05:20
2	Ba 233.527†	7.6	13.3	0.2021 ug/L	0.2021 ppb	04:05:20
2	Be 313.107†	-4199.1	830.6	0.5145 ug/L	0.5145 ppb	04:05:00
2	Cd 226.502†	-208.6	50.8	1.1530 ug/L	1.1530 ppb	04:05:20
2	Co 228.616†	-66.2	9.5	0.3485 ug/L	0.3485 ppb	04:05:20
2	Cr 267.716†	55.2	-36.0	-0.8165 ug/L	-0.8165 ppb	04:05:20
2	Cu 324.752†	5449.2	-1252.3	-6.4645 ug/L	-6.4645 ppb	04:05:00
2	Mn 257.610†	496.6	-60.2	-0.1176 ug/L	-0.1176 ppb	04:05:20
2	Mo 202.031†	12.6	3.6	0.4991 ug/L	0.4991 ppb	04:05:20
2	Ni 231.604†	89.1	-11.9	-0.5768 ug/L	-0.5768 ppb	04:05:20

2	P 214.914†	220.1	-53.9	-53.472 ug/L	-53.472 ppb	04:05:20
2	Pb 220.353†	-60.0	18.3	4.3161 ug/L	4.3161 ppb	04:05:20
2	S 181.975 Axial†	39.6	-6.5	-15.927 ug/L	-15.927 ppb	04:05:20
2	Sb 206.836†	52.3	-0.4	-0.1980 ug/L	-0.1980 ppb	04:05:20
2	Se 196.026†	-25.1	7.2	8.3219 ug/L	8.3219 ppb	04:05:20
2	Si 251.611†	536.6	-198.5	-11.115 ug/L	-11.115 ppb	04:05:20
2	Sn 189.927†	13.5	-0.8	-0.2943 ug/L	-0.2943 ppb	04:05:20
2	Ti 334.940†	-1433.9	387.9	1.0078 ug/L	1.0078 ppb	04:05:00
2	Tl 190.801†	-49.4	-9.0	-5.1376 ug/L	-5.1376 ppb	04:05:20
2	U 409.014†	-2349.2	1027.9	56.376 ug/L	56.376 ppb	04:05:00
2	V 292.402†	-1643.7	388.6	5.2586 ug/L	5.2586 ppb	04:05:00
2	Zn 213.857†	628.3	-194.3	-3.4304 ug/L	-3.4304 ppb	04:05:20
2	SiO2†	580.7	-166.8	-19.954 ug/L	-19.954 ppb	04:05:56
3	Sc Radial	3965.0	3965.0	126 %		04:04:28
3	Y RADIAL	4427.6	4427.6	129.0 %		04:04:08
3	Al 396.153Radial†	-87.8	18.1	23.758 ug/L	23.758 ppb	04:04:28
3	Ca 317.933Radial†	14.0	-7.0	-16.529 ug/L	-16.529 ppb	04:04:28
3	Fe 238.204 Radial†	8.5	0.4	5.9634 ug/L	5.9634 ppb	04:04:28
3	K 766.490 Radial†	3111.8	-357.1	-89.580 ug/L	-89.580 ppb	04:04:08
3	Mg 279.077 IEC†	2.3	0.3	18.318 ug/L	18.318 ppb	04:04:28
3	Na 589.592 Radial†	-730.8	28.1	15.976 ug/L	15.976 ppb	04:04:08
3	Sr 421.552†	20.9	-15.7	-0.1991 ug/L	-0.1991 ppb	04:04:08
3	Sc 361.383	680115.8	680115.8	137.22 %		04:05:25
3	Y 371.029	534376.9	534376.9	129.11 %		04:05:25
3	Ag 328.068†	163.4	-1.4	-0.0367 ug/L	-0.0367 ppb	04:05:25
3	As 188.979†	-26.6	3.2	2.5275 ug/L	2.5275 ppb	04:05:45
3	B 249.677†	-501.2	42.7	1.6465 ug/L	1.6465 ppb	04:05:45
3	Ba 233.527†	0.7	8.2	0.1291 ug/L	0.1291 ppb	04:05:45
3	Be 313.107†	-4176.9	846.7	0.5248 ug/L	0.5248 ppb	04:05:25
3	Cd 226.502†	-199.8	57.2	1.2948 ug/L	1.2948 ppb	04:05:45
3	Co 228.616†	-60.6	13.6	0.5012 ug/L	0.5012 ppb	04:05:45
3	Cr 267.716†	97.4	-5.2	-0.1317 ug/L	-0.1317 ppb	04:05:45
3	Cu 324.752†	5474.7	-1233.4	-6.3670 ug/L	-6.3670 ppb	04:05:25
3	Mn 257.610†	480.4	-72.0	-0.1403 ug/L	-0.1403 ppb	04:05:45
3	Mo 202.031†	25.9	13.3	1.8618 ug/L	1.8618 ppb	04:05:45
3	Ni 231.604†	80.2	-18.4	-0.8916 ug/L	-0.8916 ppb	04:05:45
3	P 214.914†	218.5	-55.1	-54.741 ug/L	-54.741 ppb	04:05:45
3	Pb 220.353†	-67.1	13.2	3.1037 ug/L	3.1037 ppb	04:05:45
3	S 181.975 Axial†	34.8	-10.0	-24.505 ug/L	-24.505 ppb	04:05:45
3	Sb 206.836†	36.9	-11.6	-7.0568 ug/L	-7.0568 ppb	04:05:45
3	Se 196.026†	-17.0	13.1	15.162 ug/L	15.162 ppb	04:05:45
3	Si 251.611†	550.6	-188.3	-10.560 ug/L	-10.560 ppb	04:05:45
3	Sn 189.927†	8.8	-4.2	-1.4553 ug/L	-1.4553 ppb	04:05:45
3	Ti 334.940†	-1338.1	457.7	1.1892 ug/L	1.1892 ppb	04:05:25
3	Tl 190.801†	-34.9	1.6	0.9361 ug/L	0.9361 ppb	04:05:45
3	U 409.014†	-2338.4	1035.6	56.797 ug/L	56.797 ppb	04:05:25
3	V 292.402†	-1689.3	355.3	4.8351 ug/L	4.8351 ppb	04:05:25
3	Zn 213.857†	651.5	-177.3	-3.1306 ug/L	-3.1306 ppb	04:05:45
3	SiO2†	561.6	-180.8	-21.659 ug/L	-21.659 ppb	04:06:01

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	683547.4	137.91 %	1.192			0.86%
Sc Radial	3935.9	125 %	1.0			0.77%
Y 371.029	537144.0	129.78 %	1.015			0.78%
Y RADIAL	4399.9	128.2 %	0.86			0.67%
Ag 328.068†	8.2	0.0444 ug/L	0.18027	0.0444 ppb	0.18027	406.28%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	16.7	21.946 ug/L	4.6338	21.946 ppb	4.6338	21.12%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.6	2.8158 ug/L	1.33649	2.8158 ppb	1.33649	47.46%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	57.1	2.2042 ug/L	0.67033	2.2042 ppb	0.67033	30.41%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	12.0	0.1837 ug/L	0.04809	0.1837 ppb	0.04809	26.18%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	854.2	0.5292 ug/L	0.01735	0.5292 ppb	0.01735	3.28%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-6.1	-14.326 ug/L	2.0681	-14.326 ppb	2.0681	14.44%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	55.9	1.2676 ug/L	0.10366	1.2676 ppb	0.10366	8.18%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	13.5	0.4986 ug/L	0.14882	0.4986 ppb	0.14882	29.85%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-20.9	-0.4787 ug/L	0.34249	-0.4787 ppb	0.34249	71.54%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-1269.8	-6.5523 ug/L	0.24156	-6.5523 ppb	0.24156	3.69%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.1	-1.7050 ug/L	10.48500	-1.7050 ppb	10.48500	614.97%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-319.8	-80.209 ug/L	17.0880	-80.209 ppb	17.0880	21.30%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.2	12.472 ug/L	30.8478	12.472 ppb	30.8478	247.33%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-61.5	-0.1205 ug/L	0.01853	-0.1205 ppb	0.01853	15.38%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	7.5	1.0458 ug/L	0.72018	1.0458 ppb	0.72018	68.87%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-18.5	-10.518 ug/L	25.0496	-10.518 ppb	25.0496	238.16%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-10.5	-0.5100 ug/L	0.41906	-0.5100 ppb	0.41906	82.17%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-57.9	-57.577 ug/L	6.0451	-57.577 ppb	6.0451	10.50%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	9.8	2.3061 ug/L	2.50590	2.3061 ppb	2.50590	108.66%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-8.8	-21.639 ug/L	4.9470	-21.639 ppb	4.9470	22.86%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-6.8	-4.1128 ug/L	3.53093	-4.1128 ppb	3.53093	85.85%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	10.2	11.756 ug/L	3.4202	11.756 ppb	3.4202	29.09%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-192.9	-10.810 ug/L	0.2819	-10.810 ppb	0.2819	2.61%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-3.2	-1.1209 ug/L	0.72012	-1.1209 ppb	0.72012	64.25%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-1.6	-0.0207 ug/L	0.24398	-0.0207 ppb	0.24398	>999.9%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	422.5	1.0980 ug/L	0.09071	1.0980 ppb	0.09071	8.26%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-3.6	-2.0771 ug/L	3.03710	-2.0771 ppb	3.03710	146.22%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	971.0	53.257 ug/L	5.7710	53.257 ppb	5.7710	10.84%	
QC value greater than the upper limit for U 409.014 Recovery = Not calculated							
V 292.402†	376.1	5.0939 ug/L	0.22692	5.0939 ppb	0.22692	4.45%	
QC value greater than the upper limit for V 292.402 Recovery = Not calculated							
Zn 213.857†	-190.6	-3.3668 ug/L	0.21168	-3.3668 ppb	0.21168	6.29%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	-172.2	-20.619 ug/L	0.9122	-20.619 ppb	0.9122	4.42%	
QC value within limits for SiO2 Recovery = Not calculated							
QC Failed. Continue with analysis.							

=====
Analysis Begun

Start Time: 4/5/2010 07:41:42

Plasma On Time: 4/5/2010 06:06:40

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\040510.sif

Batch ID:

Results Data Set: 040510

Results Library: C:\pe\Optima3\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 4/5/2010 07:41:44

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	3306.5	3306.5	0.000 %	07:43:56
1	Y RADIAL	3319.4	3319.4	0.000 %	07:43:56
1	Al 396.153Radial†	-85.1	-85.3	[0.00] ug/L	07:43:56
1	Ca 317.933Radial†	9.8	9.8	[0.00] ug/L	07:43:56
1	Fe 238.204 Radial†	7.7	7.7	[0.00] ug/L	07:43:56
1	K 766.490 Radial†	2581.4	2588.0	[0.00] ug/L	07:43:36
1	Mg 279.077 IEC†	2.9	2.9	[0.00] ug/L	07:43:56
1	Na 589.592 Radial†	-690.3	-692.1	[0.00] ug/L	07:43:36
1	Sr 421.552†	20.9	21.0	[0.00] ug/L	07:43:36
1	Sc 361.383	670238.9	670238.9	0.0000 %	07:44:53
1	Y 371.029	568224.2	568224.2	0.0000 %	07:44:53
1	Ag 328.068†	140.8	141.2	[0.00] ug/L	07:44:58
1	As 188.979†	-10.1	-10.1	[0.00] ug/L	07:45:18
1	B 249.677†	-6.0	-6.1	[0.00] ug/L	07:44:58
1	Ba 233.527†	9.3	9.3	[0.00] ug/L	07:45:18
1	Be 313.107†	-4246.0	-4258.3	[0.00] ug/L	07:44:58
1	Cd 226.502†	-145.8	-146.2	[0.00] ug/L	07:45:18
1	Co 228.616†	-31.4	-31.4	[0.00] ug/L	07:45:18
1	Cr 267.716†	59.2	59.4	[0.00] ug/L	07:45:18
1	Cu 324.752†	4513.7	4526.7	[0.00] ug/L	07:44:58
1	Mn 257.610†	544.2	545.7	[0.00] ug/L	07:45:18
1	Mo 202.031†	7.8	7.9	[0.00] ug/L	07:45:18
1	Ni 231.604†	60.7	60.9	[0.00] ug/L	07:45:18
1	P 214.914†	146.4	146.8	[0.00] ug/L	07:45:18
1	Pb 220.353†	-49.5	-49.6	[0.00] ug/L	07:45:18
1	S 181.975 Axial†	28.4	28.5	[0.00] ug/L	07:45:18
1	Sb 206.836†	20.9	21.0	[0.00] ug/L	07:45:18
1	Se 196.026†	-14.4	-14.5	[0.00] ug/L	07:45:18
1	Si 251.611†	525.9	527.4	[0.00] ug/L	07:45:18
1	Sn 189.927†	4.8	4.8	[0.00] ug/L	07:45:18
1	Ti 334.940†	-811.2	-813.5	[0.00] ug/L	07:44:58
1	Tl 190.801†	-22.5	-22.6	[0.00] ug/L	07:45:18
1	U 409.014†	-1182.9	-1186.3	[0.00] ug/L	07:44:53
1	V 292.402†	-1191.8	-1195.2	[0.00] ug/L	07:44:58
1	Zn 213.857†	438.3	439.5	[0.00] ug/L	07:45:18
1	SiO2†	541.9	543.5	[0.00] ug/L	07:46:38
2	Sc Radial	3290.1	3290.1	0.000 %	07:44:21
2	Y RADIAL	3296.0	3296.0	0.000 %	07:44:21
2	Al 396.153Radial†	-90.2	-90.8	[0.00] ug/L	07:44:21
2	Ca 317.933Radial†	14.7	14.8	[0.00] ug/L	07:44:21
2	Fe 238.204 Radial†	6.2	6.3	[0.00] ug/L	07:44:21
2	K 766.490 Radial†	2514.1	2533.0	[0.00] ug/L	07:44:01
2	Mg 279.077 IEC†	-0.0	-0.0	[0.00] ug/L	07:44:21
2	Na 589.592 Radial†	-707.9	-713.2	[0.00] ug/L	07:44:01
2	Sr 421.552†	6.7	6.8	[0.00] ug/L	07:44:01
2	Sc 361.383	681899.0	681899.0	0.0000 %	07:45:23
2	Y 371.029	578243.0	578243.0	0.0000 %	07:45:23

2	Ag 328.068†	47.3	46.6	[0.00]	ug/L	07:45:28
2	As 188.979†	-12.0	-11.8	[0.00]	ug/L	07:45:48
2	B 249.677†	87.0	85.8	[0.00]	ug/L	07:45:28
2	Ba 233.527†	21.5	21.2	[0.00]	ug/L	07:45:48
2	Be 313.107†	-4385.2	-4322.6	[0.00]	ug/L	07:45:28
2	Cd 226.502†	-141.6	-139.5	[0.00]	ug/L	07:45:48
2	Co 228.616†	-31.2	-30.7	[0.00]	ug/L	07:45:48
2	Cr 267.716†	50.1	49.4	[0.00]	ug/L	07:45:48
2	Cu 324.752†	4532.6	4468.0	[0.00]	ug/L	07:45:28
2	Mn 257.610†	535.9	528.2	[0.00]	ug/L	07:45:48
2	Mo 202.031†	7.2	7.1	[0.00]	ug/L	07:45:48
2	Ni 231.604†	85.0	83.8	[0.00]	ug/L	07:45:48
2	P 214.914†	148.4	146.3	[0.00]	ug/L	07:45:48
2	Pb 220.353†	-42.2	-41.6	[0.00]	ug/L	07:45:48
2	S 181.975 Axial†	14.8	14.6	[0.00]	ug/L	07:45:48
2	Sb 206.836†	19.8	19.5	[0.00]	ug/L	07:45:48
2	Se 196.026†	-4.7	-4.6	[0.00]	ug/L	07:45:48
2	Si 251.611†	537.7	530.0	[0.00]	ug/L	07:45:48
2	Sn 189.927†	-1.5	-1.4	[0.00]	ug/L	07:45:48
2	Ti 334.940†	-738.1	-727.6	[0.00]	ug/L	07:45:28
2	Tl 190.801†	-20.9	-20.6	[0.00]	ug/L	07:45:48
2	U 409.014†	-1217.8	-1200.4	[0.00]	ug/L	07:45:23
2	V 292.402†	-1163.4	-1146.8	[0.00]	ug/L	07:45:28
2	Zn 213.857†	442.1	435.8	[0.00]	ug/L	07:45:48
2	SiO2†	540.8	533.1	[0.00]	ug/L	07:46:58
3	Sc Radial	3348.0	3348.0	0.000	%	07:44:46
3	Y RADIAL	3358.3	3358.3	0.000	%	07:44:46
3	Al 396.153Radial†	-84.0	-83.2	[0.00]	ug/L	07:44:46
3	Ca 317.933Radial†	11.8	11.7	[0.00]	ug/L	07:44:46
3	Fe 238.204 Radial†	5.3	5.2	[0.00]	ug/L	07:44:46
3	K 766.490 Radial†	2537.6	2512.5	[0.00]	ug/L	07:44:26
3	Mg 279.077 IEC†	-0.4	-0.4	[0.00]	ug/L	07:44:46
3	Na 589.592 Radial†	-709.8	-702.8	[0.00]	ug/L	07:44:26
3	Sr 421.552†	21.7	21.4	[0.00]	ug/L	07:44:26
3	Sc 361.383	664389.3	664389.3	0.0000	%	07:45:53
3	Y 371.029	564735.3	564735.3	0.0000	%	07:45:53
3	Ag 328.068†	153.9	155.7	[0.00]	ug/L	07:45:58
3	As 188.979†	-16.8	-17.0	[0.00]	ug/L	07:46:18
3	B 249.677†	62.4	63.2	[0.00]	ug/L	07:45:58
3	Ba 233.527†	-0.0	-0.0	[0.00]	ug/L	07:46:18
3	Be 313.107†	-4304.7	-4355.1	[0.00]	ug/L	07:45:58
3	Cd 226.502†	-140.3	-142.0	[0.00]	ug/L	07:46:18
3	Co 228.616†	-34.6	-35.0	[0.00]	ug/L	07:46:18
3	Cr 267.716†	59.6	60.3	[0.00]	ug/L	07:46:18
3	Cu 324.752†	4531.6	4584.7	[0.00]	ug/L	07:45:58
3	Mn 257.610†	506.4	512.3	[0.00]	ug/L	07:46:18
3	Mo 202.031†	14.3	14.4	[0.00]	ug/L	07:46:18
3	Ni 231.604†	74.6	75.4	[0.00]	ug/L	07:46:18
3	P 214.914†	149.1	150.8	[0.00]	ug/L	07:46:18
3	Pb 220.353†	-40.7	-41.2	[0.00]	ug/L	07:46:18
3	S 181.975 Axial†	20.7	21.0	[0.00]	ug/L	07:46:18
3	Sb 206.836†	18.5	18.7	[0.00]	ug/L	07:46:18
3	Se 196.026†	-14.8	-15.0	[0.00]	ug/L	07:46:18
3	Si 251.611†	522.0	528.1	[0.00]	ug/L	07:46:18
3	Sn 189.927†	13.5	13.7	[0.00]	ug/L	07:46:18
3	Ti 334.940†	-798.3	-807.7	[0.00]	ug/L	07:45:58
3	Tl 190.801†	-25.1	-25.4	[0.00]	ug/L	07:46:18
3	U 409.014†	-1147.3	-1160.7	[0.00]	ug/L	07:45:53
3	V 292.402†	-1167.5	-1181.2	[0.00]	ug/L	07:45:58
3	Zn 213.857†	449.4	454.7	[0.00]	ug/L	07:46:18
3	SiO2†	536.4	542.7	[0.00]	ug/L	07:47:19

Mean Data: S0

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc 361.383	672175.8	8914.08	1.33%	0.0000	%
Sc Radial	3314.9	29.84	0.90%	0.000	%
Y 371.029	570400.8	7011.96	1.23%	0.0000	%
Y RADIAL	3324.6	31.50	0.95%	0.000	%
Ag 328.068†	114.5	59.23	51.73%	[0.00]	ug/L

Al 396.153Radial†	-86.5	3.94	4.56%	[0.00]	ug/L
As 188.979†	-13.0	3.59	27.68%	[0.00]	ug/L
B 249.677†	47.6	47.84	100.45%	[0.00]	ug/L
Ba 233.527†	10.2	10.66	104.78%	[0.00]	ug/L
Be 313.107†	-4312.0	49.29	1.14%	[0.00]	ug/L
Ca 317.933Radial†	12.1	2.53	20.88%	[0.00]	ug/L
Cd 226.502†	-142.6	3.37	2.36%	[0.00]	ug/L
Co 228.616†	-32.4	2.31	7.14%	[0.00]	ug/L
Cr 267.716†	56.4	6.06	10.75%	[0.00]	ug/L
Cu 324.752†	4526.5	58.37	1.29%	[0.00]	ug/L
Fe 238.204 Radial†	6.4	1.24	19.35%	[0.00]	ug/L
K 766.490 Radial†	2544.5	39.02	1.53%	[0.00]	ug/L
Mg 279.077 IEC†	0.8	1.81	226.87%	[0.00]	ug/L
Mn 257.610†	528.8	16.70	3.16%	[0.00]	ug/L
Mo 202.031†	9.8	4.03	41.07%	[0.00]	ug/L
Na 589.592 Radial†	-702.7	10.57	1.50%	[0.00]	ug/L
Ni 231.604†	73.4	11.59	15.81%	[0.00]	ug/L
P 214.914†	148.0	2.49	1.68%	[0.00]	ug/L
Pb 220.353†	-44.1	4.73	10.73%	[0.00]	ug/L
S 181.975 Axial†	21.3	6.93	32.48%	[0.00]	ug/L
Sb 206.836†	19.7	1.17	5.91%	[0.00]	ug/L
Se 196.026†	-11.4	5.85	51.51%	[0.00]	ug/L
Si 251.611†	528.5	1.33	0.25%	[0.00]	ug/L
Sn 189.927†	5.7	7.60	133.80%	[0.00]	ug/L
Sr 421.552†	16.4	8.34	50.87%	[0.00]	ug/L
Ti 334.940†	-782.9	48.03	6.13%	[0.00]	ug/L
Tl 190.801†	-22.9	2.40	10.51%	[0.00]	ug/L
U 409.014†	-1182.5	20.11	1.70%	[0.00]	ug/L
V 292.402†	-1174.4	24.91	2.12%	[0.00]	ug/L
Zn 213.857†	443.3	9.99	2.25%	[0.00]	ug/L
SiO2†	539.8	5.78	1.07%	[0.00]	ug/L

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

Autosampler Location: 2
 Date Collected: 4/5/2010 07:49:29
 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	3460.3	3460.3	104 %		07:51:42
1	Y RADIAL	3480.1	3480.1	104.7 %		07:51:42
1	K 766.490 Radial†	9558.7	6612.5	[1000] ug/L		07:51:22
1	Sr 421.552†	11576.9	11073.8	[100] ug/L		07:51:42
1	Sc 361.383	685677.3	685677.3	102.01 %		07:52:39
1	Y 371.029	581088.1	581088.1	101.87 %		07:52:39
1	Ag 328.068†	17806.7	17341.6	[100] ug/L		07:52:39
1	As 188.979†	121.8	132.4	[100] ug/L		07:52:59
1	B 249.677†	3149.3	3039.6	[100] ug/L		07:52:39
1	Ba 233.527†	9011.2	8823.6	[100] ug/L		07:52:39
1	Be 313.107†	195058.4	195529.6	[100] ug/L		07:52:39
1	Cd 226.502†	5098.3	5140.5	[100] ug/L		07:52:59
1	Co 228.616†	3157.3	3127.6	[100] ug/L		07:52:59
1	Cr 267.716†	6155.0	5977.5	[100] ug/L		07:52:39
1	Cu 324.752†	33629.0	28440.4	[100] ug/L		07:52:39
1	Mn 257.610†	66279.8	64445.9	[100] ug/L		07:52:39
1	Mo 202.031†	910.6	882.9	[100] ug/L		07:52:59
1	Ni 231.604†	2567.8	2443.9	[100] ug/L		07:52:59
1	P 214.914†	673.3	512.1	[500] ug/L		07:52:59
1	Pb 220.353†	471.9	506.7	[100] ug/L		07:52:59
1	S 181.975 Axial†	107.5	84.0	[200] ug/L		07:52:59
1	Sb 206.836†	219.9	195.8	[100] ug/L		07:52:59
1	Se 196.026†	74.1	84.0	[100] ug/L		07:52:59
1	Si 251.611†	11794.9	11034.1	[500] ug/L		07:52:39
1	Sn 189.927†	345.3	332.8	[100] ug/L		07:52:59
1	Ti 334.940†	51323.5	51095.9	[100] ug/L		07:52:39
1	Tl 190.801†	195.1	214.1	[100] ug/L		07:52:59
1	U 409.014†	2151.9	3292.0	[100] ug/L		07:52:39
1	V 292.402†	9463.1	10451.1	[100] ug/L		07:52:39
1	Zn 213.857†	7232.7	6646.9	[100] ug/L		07:52:39
1	SiO2†	11995.1	11219.2	[1069.5] ug/L		07:53:55
2	Sc Radial	3502.6	3502.6	106 %		07:52:07
2	Y RADIAL	3507.6	3507.6	105.5 %		07:52:07
2	K 766.490 Radial†	9895.6	6820.8	[1000] ug/L		07:51:47
2	Sr 421.552†	11904.7	11250.3	[100] ug/L		07:52:07
2	Sc 361.383	687148.7	687148.7	102.23 %		07:53:04
2	Y 371.029	583008.2	583008.2	102.21 %		07:53:04
2	Ag 328.068†	18019.4	17512.3	[100] ug/L		07:53:04
2	As 188.979†	125.9	136.1	[100] ug/L		07:53:24
2	B 249.677†	3178.8	3061.9	[100] ug/L		07:53:04
2	Ba 233.527†	8983.2	8777.3	[100] ug/L		07:53:04
2	Be 313.107†	196398.6	196431.0	[100] ug/L		07:53:04
2	Cd 226.502†	5172.2	5202.0	[100] ug/L		07:53:24
2	Co 228.616†	3196.8	3159.6	[100] ug/L		07:53:24
2	Cr 267.716†	6167.8	5977.0	[100] ug/L		07:53:04
2	Cu 324.752†	33917.3	28651.7	[100] ug/L		07:53:04
2	Mn 257.610†	66345.8	64371.3	[100] ug/L		07:53:04
2	Mo 202.031†	918.8	889.0	[100] ug/L		07:53:24
2	Ni 231.604†	2596.6	2466.6	[100] ug/L		07:53:24
2	P 214.914†	677.2	514.4	[500] ug/L		07:53:24
2	Pb 220.353†	476.4	510.2	[100] ug/L		07:53:24
2	S 181.975 Axial†	108.0	84.3	[200] ug/L		07:53:24
2	Sb 206.836†	224.7	200.1	[100] ug/L		07:53:24
2	Se 196.026†	75.5	85.2	[100] ug/L		07:53:24
2	Si 251.611†	11882.8	11095.3	[500] ug/L		07:53:04
2	Sn 189.927†	338.7	325.7	[100] ug/L		07:53:24
2	Ti 334.940†	51617.1	51275.3	[100] ug/L		07:53:04
2	Tl 190.801†	192.2	210.9	[100] ug/L		07:53:24
2	U 409.014†	2250.1	3383.5	[100] ug/L		07:53:04

2	V 292.402†	9571.1	10536.9	[100]	ug/L	07:53:04
2	Zn 213.857†	7234.6	6633.6	[100]	ug/L	07:53:04
2	SiO2†	11744.4	10948.7	[1069.5]	ug/L	07:54:00
3	Sc Radial	3469.8	3469.8	105	%	07:52:32
3	Y RADIAL	3477.9	3477.9	104.6	%	07:52:32
3	K 766.490 Radial†	9597.5	6624.3	[1000]	ug/L	07:52:12
3	Sr 421.552†	11842.9	11297.6	[100]	ug/L	07:52:32
3	Sc 361.383	686653.6	686653.6	102.15	%	07:53:30
3	Y 371.029	581772.6	581772.6	101.99	%	07:53:30
3	Ag 328.068†	17974.4	17480.9	[100]	ug/L	07:53:30
3	As 188.979†	127.2	137.5	[100]	ug/L	07:53:50
3	B 249.677†	3170.7	3056.2	[100]	ug/L	07:53:30
3	Ba 233.527†	9138.3	8935.5	[100]	ug/L	07:53:30
3	Be 313.107†	197119.1	197274.9	[100]	ug/L	07:53:30
3	Cd 226.502†	5227.2	5259.6	[100]	ug/L	07:53:50
3	Co 228.616†	3230.8	3195.1	[100]	ug/L	07:53:50
3	Cr 267.716†	6122.1	5936.7	[100]	ug/L	07:53:30
3	Cu 324.752†	33884.0	28643.1	[100]	ug/L	07:53:30
3	Mn 257.610†	66693.5	64758.6	[100]	ug/L	07:53:30
3	Mo 202.031†	921.4	892.1	[100]	ug/L	07:53:50
3	Ni 231.604†	2626.9	2498.1	[100]	ug/L	07:53:50
3	P 214.914†	675.2	513.0	[500]	ug/L	07:53:50
3	Pb 220.353†	485.8	519.7	[100]	ug/L	07:53:50
3	S 181.975 Axial†	107.3	83.7	[200]	ug/L	07:53:50
3	Sb 206.836†	217.4	193.1	[100]	ug/L	07:53:50
3	Se 196.026†	77.0	86.7	[100]	ug/L	07:53:50
3	Si 251.611†	11905.2	11125.7	[500]	ug/L	07:53:30
3	Sn 189.927†	350.0	337.0	[100]	ug/L	07:53:50
3	Ti 334.940†	51728.5	51420.7	[100]	ug/L	07:53:30
3	Tl 190.801†	195.5	214.3	[100]	ug/L	07:53:50
3	U 409.014†	2259.2	3394.0	[100]	ug/L	07:53:30
3	V 292.402†	9577.3	10549.8	[100]	ug/L	07:53:30
3	Zn 213.857†	7281.9	6685.0	[100]	ug/L	07:53:30
3	SiO2†	11784.6	10996.4	[1069.5]	ug/L	07:54:05

Mean Data: S0.1

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc 361.383	686493.2	748.73	0.11%	102.13	%
Sc Radial	3477.6	22.17	0.64%	105	%
Y 371.029	581956.3	973.12	0.17%	102.03	%
Y RADIAL	3488.5	16.53	0.47%	104.9	%
Ag 328.068†	17444.9	90.88	0.52%	[100]	ug/L
As 188.979†	135.3	2.67	1.97%	[100]	ug/L
B 249.677†	3052.6	11.58	0.38%	[100]	ug/L
Ba 233.527†	8845.4	81.33	0.92%	[100]	ug/L
Be 313.107†	196411.9	872.82	0.44%	[100]	ug/L
Cd 226.502†	5200.7	59.57	1.15%	[100]	ug/L
Co 228.616†	3160.7	33.78	1.07%	[100]	ug/L
Cr 267.716†	5963.7	23.40	0.39%	[100]	ug/L
Cu 324.752†	28578.4	119.61	0.42%	[100]	ug/L
K 766.490 Radial†	6685.9	117.00	1.75%	[1000]	ug/L
Mn 257.610†	64525.3	205.45	0.32%	[100]	ug/L
Mo 202.031†	888.0	4.69	0.53%	[100]	ug/L
Ni 231.604†	2469.6	27.22	1.10%	[100]	ug/L
P 214.914†	513.2	1.17	0.23%	[500]	ug/L
Pb 220.353†	512.2	6.71	1.31%	[100]	ug/L
S 181.975 Axial†	84.0	0.32	0.38%	[200]	ug/L
Sb 206.836†	196.3	3.54	1.80%	[100]	ug/L
Se 196.026†	85.3	1.35	1.58%	[100]	ug/L
Si 251.611†	11085.0	46.64	0.42%	[500]	ug/L
Sn 189.927†	331.8	5.72	1.72%	[100]	ug/L
Sr 421.552†	11207.2	117.90	1.05%	[100]	ug/L
Ti 334.940†	51263.9	162.72	0.32%	[100]	ug/L
Tl 190.801†	213.1	1.91	0.90%	[100]	ug/L
U 409.014†	3356.5	56.14	1.67%	[100]	ug/L
V 292.402†	10512.6	53.64	0.51%	[100]	ug/L
Zn 213.857†	6655.2	26.70	0.40%	[100]	ug/L
SiO2†	11054.8	144.39	1.31%	[1069.5]	ug/L

Sequence No.: 3

Sample ID: S0.5

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 4/5/2010 07:56:16

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	3390.8	3390.8	102 %	07:58:28
1	Y RADIAL	3365.9	3365.9	101.2 %	07:58:28
1	Al 396.153Radial†	4128.8	4122.9	[5000] ug/L	07:58:08
1	Ca 317.933Radial†	1683.8	1633.9	[5000] ug/L	07:58:28
1	K 766.490 Radial†	43878.4	40351.8	[5000] ug/L	07:58:08
1	Mg 279.077 IEC†	68.4	66.1	[5000] ug/L	07:58:28
1	Sr 421.552†	58378.6	57055.5	[500] ug/L	07:58:08
1	Sc 361.383	698517.4	698517.4	103.92 %	07:59:26
1	Y 371.029	585420.5	585420.5	102.63 %	07:59:26
1	Ag 328.068†	88900.8	85433.8	[500] ug/L	07:59:31
1	As 188.979†	710.8	697.0	[500] ug/L	07:59:51
1	B 249.677†	15953.4	15304.1	[500] ug/L	07:59:31
1	Ba 233.527†	44647.3	42953.4	[500] ug/L	07:59:31
1	Be 313.107†	1004065.9	970513.8	[500] ug/L	07:59:26
1	Cd 226.502†	26624.5	25763.0	[500] ug/L	07:59:31
1	Co 228.616†	15540.0	14986.3	[500] ug/L	07:59:51
1	Cr 267.716†	30262.4	29064.8	[500] ug/L	07:59:31
1	Cu 324.752†	150034.1	139849.7	[500] ug/L	07:59:31
1	Mn 257.610†	319281.9	306712.8	[500] ug/L	07:59:31
1	Mo 202.031†	4531.4	4350.7	[500] ug/L	07:59:51
1	Ni 231.604†	12390.5	11849.9	[500] ug/L	07:59:51
1	P 214.914†	2782.3	2529.5	[2500] ug/L	07:59:51
1	Pb 220.353†	2467.9	2418.9	[500] ug/L	07:59:51
1	S 181.975 Axial†	471.2	432.1	[1000] ug/L	07:59:51
1	Sb 206.836†	1030.4	971.8	[500] ug/L	07:59:51
1	Se 196.026†	453.8	448.0	[500] ug/L	07:59:51
1	Si 251.611†	56764.9	54095.8	[2500] ug/L	07:59:31
1	Sn 189.927†	1653.7	1585.7	[500] ug/L	07:59:51
1	Ti 334.940†	256498.9	247609.1	[500] ug/L	07:59:31
1	Tl 190.801†	1041.0	1024.6	[500] ug/L	07:59:51
1	U 409.014†	15280.5	15886.7	[500] ug/L	07:59:31
1	V 292.402†	52717.7	51904.1	[500] ug/L	07:59:31
1	Zn 213.857†	34288.5	32552.2	[500] ug/L	07:59:31
1	SiO2†	57203.4	54506.5	[5347.5] ug/L	08:00:58
2	Sc Radial	3293.7	3293.7	99.4 %	07:58:54
2	Y RADIAL	3282.0	3282.0	98.72 %	07:58:54
2	Al 396.153Radial†	4045.5	4158.0	[5000] ug/L	07:58:34
2	Ca 317.933Radial†	1649.3	1647.8	[5000] ug/L	07:58:54
2	K 766.490 Radial†	43482.0	41217.3	[5000] ug/L	07:58:34
2	Mg 279.077 IEC†	66.5	66.1	[5000] ug/L	07:58:54
2	Sr 421.552†	57853.9	58209.8	[500] ug/L	07:58:34
2	Sc 361.383	704569.7	704569.7	104.82 %	07:59:56
2	Y 371.029	590938.2	590938.2	103.60 %	07:59:56
2	Ag 328.068†	88674.9	84483.4	[500] ug/L	08:00:02
2	As 188.979†	721.0	700.8	[500] ug/L	08:00:22
2	B 249.677†	15960.4	15179.0	[500] ug/L	08:00:02
2	Ba 233.527†	44405.4	42353.6	[500] ug/L	08:00:02
2	Be 313.107†	1014865.1	972516.7	[500] ug/L	07:59:56
2	Cd 226.502†	26443.7	25370.5	[500] ug/L	08:00:02
2	Co 228.616†	15711.4	15021.5	[500] ug/L	08:00:22
2	Cr 267.716†	30139.2	28697.1	[500] ug/L	08:00:02
2	Cu 324.752†	150091.9	138664.7	[500] ug/L	08:00:02
2	Mn 257.610†	317469.1	302344.1	[500] ug/L	08:00:02
2	Mo 202.031†	4576.4	4356.2	[500] ug/L	08:00:22
2	Ni 231.604†	12554.2	11903.6	[500] ug/L	08:00:22
2	P 214.914†	2827.6	2549.7	[2500] ug/L	08:00:22
2	Pb 220.353†	2505.6	2434.6	[500] ug/L	08:00:22
2	S 181.975 Axial†	477.8	434.5	[1000] ug/L	08:00:22
2	Sb 206.836†	1052.6	984.4	[500] ug/L	08:00:22

2	Se 196.026†	460.6	450.8	[500]	ug/L	08:00:22
2	Si 251.611†	56479.3	53354.0	[2500]	ug/L	08:00:02
2	Sn 189.927†	1687.5	1604.2	[500]	ug/L	08:00:22
2	Ti 334.940†	255604.4	244635.5	[500]	ug/L	08:00:02
2	Tl 190.801†	1047.5	1022.2	[500]	ug/L	08:00:22
2	U 409.014†	15116.5	15604.0	[500]	ug/L	08:00:02
2	V 292.402†	52542.3	51300.9	[500]	ug/L	08:00:02
2	Zn 213.857†	34230.7	32213.6	[500]	ug/L	08:00:02
2	SiO2†	57770.9	54575.0	[5347.5]	ug/L	08:01:03
3	Sc Radial	3291.5	3291.5	99.3	%	07:59:19
3	Y RADIAL	3284.9	3284.9	98.81	%	07:59:19
3	Al 396.153Radial†	4010.3	4125.2	[5000]	ug/L	07:58:59
3	Ca 317.933Radial†	1647.2	1646.8	[5000]	ug/L	07:59:19
3	K 766.490 Radial†	43052.6	40813.9	[5000]	ug/L	07:58:59
3	Mg 279.077 IEC†	67.5	67.2	[5000]	ug/L	07:59:19
3	Sr 421.552†	57313.0	57703.7	[500]	ug/L	07:58:59
3	Sc 361.383	700445.5	700445.5	104.21	%	08:00:27
3	Y 371.029	587674.9	587674.9	103.03	%	08:00:27
3	Ag 328.068†	89730.3	85994.3	[500]	ug/L	08:00:32
3	As 188.979†	726.8	710.4	[500]	ug/L	08:00:52
3	B 249.677†	16182.2	15481.5	[500]	ug/L	08:00:32
3	Ba 233.527†	45109.2	43278.4	[500]	ug/L	08:00:32
3	Be 313.107†	1009948.0	973498.9	[500]	ug/L	08:00:27
3	Cd 226.502†	27034.8	26086.2	[500]	ug/L	08:00:32
3	Co 228.616†	15755.6	15152.1	[500]	ug/L	08:00:52
3	Cr 267.716†	30641.3	29348.3	[500]	ug/L	08:00:32
3	Cu 324.752†	151119.1	140493.6	[500]	ug/L	08:00:32
3	Mn 257.610†	322077.9	308550.2	[500]	ug/L	08:00:32
3	Mo 202.031†	4593.3	4398.1	[500]	ug/L	08:00:52
3	Ni 231.604†	12620.0	12037.3	[500]	ug/L	08:00:52
3	P 214.914†	2838.9	2576.3	[2500]	ug/L	08:00:52
3	Pb 220.353†	2497.7	2441.1	[500]	ug/L	08:00:52
3	S 181.975 Axial†	481.9	441.1	[1000]	ug/L	08:00:52
3	Sb 206.836†	1053.4	991.2	[500]	ug/L	08:00:52
3	Se 196.026†	460.7	453.5	[500]	ug/L	08:00:52
3	Si 251.611†	57204.7	54367.5	[2500]	ug/L	08:00:32
3	Sn 189.927†	1688.2	1614.3	[500]	ug/L	08:00:52
3	Ti 334.940†	258640.8	248985.1	[500]	ug/L	08:00:32
3	Tl 190.801†	1055.3	1035.5	[500]	ug/L	08:00:52
3	U 409.014†	15296.9	15862.0	[500]	ug/L	08:00:32
3	V 292.402†	53334.4	52356.2	[500]	ug/L	08:00:32
3	Zn 213.857†	34718.7	32874.2	[500]	ug/L	08:00:32
3	SiO2†	56986.2	54146.5	[5347.5]	ug/L	08:01:08

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	701177.5	3091.84	0.44%	104.31 %
Sc Radial	3325.3	56.70	1.71%	100 %
Y 371.029	588011.2	2774.16	0.47%	103.09 %
Y RADIAL	3310.9	47.63	1.44%	99.59 %
Ag 328.068†	85303.8	763.80	0.90%	[500] ug/L
Al 396.153Radial†	4135.4	19.63	0.47%	[5000] ug/L
As 188.979†	702.7	6.90	0.98%	[500] ug/L
B 249.677†	15321.5	151.98	0.99%	[500] ug/L
Ba 233.527†	42861.8	469.15	1.09%	[500] ug/L
Be 313.107†	972176.5	1521.37	0.16%	[500] ug/L
Ca 317.933Radial†	1642.8	7.72	0.47%	[5000] ug/L
Cd 226.502†	25739.9	358.43	1.39%	[500] ug/L
Co 228.616†	15053.3	87.37	0.58%	[500] ug/L
Cr 267.716†	29036.7	326.47	1.12%	[500] ug/L
Cu 324.752†	139669.3	927.68	0.66%	[500] ug/L
K 766.490 Radial†	40794.3	433.10	1.06%	[5000] ug/L
Mg 279.077 IEC†	66.4	0.62	0.94%	[5000] ug/L
Mn 257.610†	305869.0	3187.94	1.04%	[500] ug/L
Mo 202.031†	4368.3	25.95	0.59%	[500] ug/L
Ni 231.604†	11930.3	96.52	0.81%	[500] ug/L
P 214.914†	2551.8	23.51	0.92%	[2500] ug/L
Pb 220.353†	2431.5	11.37	0.47%	[500] ug/L
S 181.975 Axial†	435.9	4.66	1.07%	[1000] ug/L

Sb 206.836†	982.5	9.82	1.00%	[500]	ug/L
Se 196.026†	450.7	2.74	0.61%	[500]	ug/L
Si 251.611†	53939.1	524.58	0.97%	[2500]	ug/L
Sn 189.927†	1601.4	14.55	0.91%	[500]	ug/L
Sr 421.552†	57656.3	578.63	1.00%	[500]	ug/L
Ti 334.940†	247076.5	2223.18	0.90%	[500]	ug/L
Tl 190.801†	1027.5	7.10	0.69%	[500]	ug/L
U 409.014†	15784.2	156.58	0.99%	[500]	ug/L
V 292.402†	51853.8	529.46	1.02%	[500]	ug/L
Zn 213.857†	32546.6	330.35	1.01%	[500]	ug/L
SiO2†	54409.3	230.17	0.42%	[5347.5]	ug/L

Sequence No.: 4

Sample ID: SCAL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 4/5/2010 08:03:19

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	3389.6	3389.6	102 %	08:05:33
1	Y RADIAL	3367.3	3367.3	101.3 %	08:05:33
1	Al 396.153Radial†	8072.1	7980.5	[10000] ug/L	08:05:13
1	Ca 317.933Radial†	3313.5	3228.3	[10000] ug/L	08:05:33
1	Fe 238.204 Radial†	393.9	378.8	[10000] ug/L	08:05:33
1	K 766.490 Radial†	86539.3	82085.9	[10000] ug/L	08:05:13
1	Mg 279.077 IEC†	136.4	132.6	[10000] ug/L	08:05:33
1	Na 589.592 Radial†	44824.8	44538.7	[10000] ug/L	08:05:13
1	Sr 421.552†	114492.0	111950.2	[1000] ug/L	08:05:13
1	Sc 361.383	698128.1	698128.1	103.86 %	08:06:30
1	Y 371.029	584625.6	584625.6	102.49 %	08:06:30
1	Ag 328.068†	174860.9	168246.0	[1000] ug/L	08:06:35
1	As 188.979†	1416.1	1376.5	[1000] ug/L	08:06:55
1	B 249.677†	31954.0	30718.5	[1000] ug/L	08:06:35
1	Ba 233.527†	87842.3	84566.7	[1000] ug/L	08:06:35
1	Be 313.107†	1988624.8	1919011.2	[1000] ug/L	08:06:30
1	Cd 226.502†	52582.9	50770.7	[1000] ug/L	08:06:35
1	Co 228.616†	31219.6	30091.4	[1000] ug/L	08:06:35
1	Cr 267.716†	59759.4	57481.6	[1000] ug/L	08:06:35
1	Cu 324.752†	288446.5	273197.3	[1000] ug/L	08:06:35
1	Mn 257.610†	638952.0	614670.7	[1000] ug/L	08:06:30
1	Mo 202.031†	8894.2	8553.8	[1000] ug/L	08:06:55
1	Ni 231.604†	24757.2	23763.6	[1000] ug/L	08:06:35
1	P 214.914†	5356.1	5009.1	[5000] ug/L	08:06:55
1	Pb 220.353†	4885.6	4748.1	[1000] ug/L	08:06:55
1	S 181.975 Axial†	913.2	857.9	[2000] ug/L	08:06:55
1	Sb 206.836†	2025.0	1930.0	[1000] ug/L	08:06:55
1	Se 196.026†	909.2	886.7	[1000] ug/L	08:06:55
1	Si 251.611†	113023.9	108293.8	[5000] ug/L	08:06:35
1	Sn 189.927†	3318.1	3189.1	[1000] ug/L	08:06:55
1	Ti 334.940†	521105.7	502517.0	[1000] ug/L	08:06:30
1	Tl 190.801†	2062.6	2008.7	[1000] ug/L	08:06:55
1	U 409.014†	31023.4	31052.6	[1000] ug/L	08:06:35
1	V 292.402†	105696.3	102941.6	[1000] ug/L	08:06:35
1	Zn 213.857†	67020.8	64086.0	[1000] ug/L	08:06:35
1	SiO2†	113237.5	108488.3	[10695] ug/L	08:08:03
2	Sc Radial	3463.4	3463.4	104 %	08:05:58
2	Y RADIAL	3431.2	3431.2	103.2 %	08:05:58
2	Al 396.153Radial†	8315.6	8045.5	[10000] ug/L	08:05:38
2	Ca 317.933Radial†	3362.8	3206.5	[10000] ug/L	08:05:58
2	Fe 238.204 Radial†	400.2	376.6	[10000] ug/L	08:05:58
2	K 766.490 Radial†	89236.6	82865.6	[10000] ug/L	08:05:38
2	Mg 279.077 IEC†	139.6	132.8	[10000] ug/L	08:05:58
2	Na 589.592 Radial†	46913.0	45604.1	[10000] ug/L	08:05:38
2	Sr 421.552†	118282.7	113194.3	[1000] ug/L	08:05:38
2	Sc 361.383	691500.5	691500.5	102.87 %	08:07:01
2	Y 371.029	579523.8	579523.8	101.60 %	08:07:01
2	Ag 328.068†	175874.2	170844.7	[1000] ug/L	08:07:07
2	As 188.979†	1444.6	1417.2	[1000] ug/L	08:07:27
2	B 249.677†	32144.5	31198.6	[1000] ug/L	08:07:07
2	Ba 233.527†	87995.0	85525.7	[1000] ug/L	08:07:07
2	Be 313.107†	1975458.1	1924563.9	[1000] ug/L	08:07:01
2	Cd 226.502†	52516.8	51191.8	[1000] ug/L	08:07:07
2	Co 228.616†	31280.9	30439.1	[1000] ug/L	08:07:07
2	Cr 267.716†	59875.1	58145.5	[1000] ug/L	08:07:07
2	Cu 324.752†	290707.7	278057.1	[1000] ug/L	08:07:07
2	Mn 257.610†	634326.3	616070.6	[1000] ug/L	08:07:01
2	Mo 202.031†	8969.2	8708.7	[1000] ug/L	08:07:27
2	Ni 231.604†	24735.9	23971.2	[1000] ug/L	08:07:07

2	P 214.914†	5406.4	5107.3	[5000]	ug/L	08:07:27
2	Pb 220.353†	4903.2	4810.3	[1000]	ug/L	08:07:27
2	S 181.975 Axial†	928.3	881.0	[2000]	ug/L	08:07:27
2	Sb 206.836†	2068.2	1990.7	[1000]	ug/L	08:07:27
2	Se 196.026†	920.7	906.3	[1000]	ug/L	08:07:27
2	Si 251.611†	113466.3	109766.8	[5000]	ug/L	08:07:07
2	Sn 189.927†	3335.4	3236.6	[1000]	ug/L	08:07:27
2	Ti 334.940†	516441.9	502792.3	[1000]	ug/L	08:07:01
2	Tl 190.801†	2075.7	2040.5	[1000]	ug/L	08:07:27
2	U 409.014†	31379.2	31684.7	[1000]	ug/L	08:07:07
2	V 292.402†	105813.1	104030.5	[1000]	ug/L	08:07:07
2	Zn 213.857†	67163.5	64843.2	[1000]	ug/L	08:07:07
2	SiO2†	112310.3	108631.9	[10695]	ug/L	08:08:08
3	Sc Radial	3434.8	3434.8	104	%	08:06:23
3	Y RADIAL	3398.4	3398.4	102.2	%	08:06:23
3	Al 396.153Radial†	8200.8	8001.0	[10000]	ug/L	08:06:03
3	Ca 317.933Radial†	3323.8	3195.6	[10000]	ug/L	08:06:23
3	Fe 238.204 Radial†	399.0	378.7	[10000]	ug/L	08:06:23
3	K 766.490 Radial†	88269.9	82644.0	[10000]	ug/L	08:06:03
3	Mg 279.077 IEC†	139.1	133.4	[10000]	ug/L	08:06:23
3	Na 589.592 Radial†	46297.6	45384.1	[10000]	ug/L	08:06:03
3	Sr 421.552†	117150.3	113044.4	[1000]	ug/L	08:06:03
3	Sc 361.383	708962.0	708962.0	105.47	%	08:07:33
3	Y 371.029	593538.7	593538.7	104.06	%	08:07:33
3	Ag 328.068†	176605.2	167327.1	[1000]	ug/L	08:07:38
3	As 188.979†	1429.8	1368.5	[1000]	ug/L	08:07:58
3	B 249.677†	32368.4	30641.3	[1000]	ug/L	08:07:38
3	Ba 233.527†	88567.3	83961.6	[1000]	ug/L	08:07:38
3	Be 313.107†	2027995.7	1927080.1	[1000]	ug/L	08:07:33
3	Cd 226.502†	53080.2	50468.6	[1000]	ug/L	08:07:38
3	Co 228.616†	31617.5	30009.3	[1000]	ug/L	08:07:38
3	Cr 267.716†	60223.2	57041.9	[1000]	ug/L	08:07:38
3	Cu 324.752†	291579.5	271923.7	[1000]	ug/L	08:07:38
3	Mn 257.610†	651225.0	616905.8	[1000]	ug/L	08:07:33
3	Mo 202.031†	8934.0	8460.6	[1000]	ug/L	08:07:58
3	Ni 231.604†	25049.9	23676.8	[1000]	ug/L	08:07:38
3	P 214.914†	5394.3	4966.4	[5000]	ug/L	08:07:58
3	Pb 220.353†	4893.6	4683.8	[1000]	ug/L	08:07:58
3	S 181.975 Axial†	917.0	848.1	[2000]	ug/L	08:07:58
3	Sb 206.836†	2049.9	1923.8	[1000]	ug/L	08:07:58
3	Se 196.026†	904.9	869.3	[1000]	ug/L	08:07:58
3	Si 251.611†	114148.7	107697.3	[5000]	ug/L	08:07:38
3	Sn 189.927†	3333.3	3154.7	[1000]	ug/L	08:07:58
3	Ti 334.940†	530438.4	503698.2	[1000]	ug/L	08:07:33
3	Tl 190.801†	2083.5	1998.2	[1000]	ug/L	08:07:58
3	U 409.014†	31258.5	30819.0	[1000]	ug/L	08:07:38
3	V 292.402†	106738.9	102374.9	[1000]	ug/L	08:07:38
3	Zn 213.857†	67839.3	63876.0	[1000]	ug/L	08:07:38
3	SiO2†	111903.7	105557.5	[10695]	ug/L	08:08:14

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	699530.2	8814.81	1.26%	104.07 %
Sc Radial	3429.2	37.18	1.08%	103 %
Y 371.029	585896.0	7093.29	1.21%	102.72 %
Y RADIAL	3398.9	31.95	0.94%	102.2 %
Ag 328.068†	168805.9	1824.44	1.08%	[1000] ug/L
Al 396.153Radial†	8009.0	33.22	0.41%	[10000] ug/L
As 188.979†	1387.4	26.11	1.88%	[1000] ug/L
B 249.677†	30852.8	301.94	0.98%	[1000] ug/L
Ba 233.527†	84684.6	788.72	0.93%	[1000] ug/L
Be 313.107†	1923551.7	4128.53	0.21%	[1000] ug/L
Ca 317.933Radial†	3210.1	16.64	0.52%	[10000] ug/L
Cd 226.502†	50810.4	363.22	0.71%	[1000] ug/L
Co 228.616†	30180.0	228.15	0.76%	[1000] ug/L
Cr 267.716†	57556.3	555.54	0.97%	[1000] ug/L
Cu 324.752†	274392.7	3236.74	1.18%	[1000] ug/L
Fe 238.204 Radial†	378.0	1.23	0.32%	[10000] ug/L
K 766.490 Radial†	82531.9	401.75	0.49%	[10000] ug/L

Mg 279.077 IEC†	132.9	0.45	0.34%	[10000]	ug/L
Mn 257.610†	615882.4	1129.38	0.18%	[1000]	ug/L
Mo 202.031†	8574.4	125.32	1.46%	[1000]	ug/L
Na 589.592 Radial†	45175.6	562.44	1.24%	[10000]	ug/L
Ni 231.604†	23803.9	151.29	0.64%	[1000]	ug/L
P 214.914†	5027.6	72.28	1.44%	[5000]	ug/L
Pb 220.353†	4747.4	63.25	1.33%	[1000]	ug/L
S 181.975 Axial†	862.3	16.91	1.96%	[2000]	ug/L
Sb 206.836†	1948.2	36.96	1.90%	[1000]	ug/L
Se 196.026†	887.4	18.53	2.09%	[1000]	ug/L
Si 251.611†	108586.0	1065.24	0.98%	[5000]	ug/L
Sn 189.927†	3193.4	41.10	1.29%	[1000]	ug/L
Sr 421.552†	112729.6	679.18	0.60%	[1000]	ug/L
Ti 334.940†	503002.5	618.05	0.12%	[1000]	ug/L
Tl 190.801†	2015.8	22.04	1.09%	[1000]	ug/L
U 409.014†	31185.4	447.87	1.44%	[1000]	ug/L
V 292.402†	103115.7	841.39	0.82%	[1000]	ug/L
Zn 213.857†	64268.4	508.78	0.79%	[1000]	ug/L
SiO2†	107559.2	1735.02	1.61%	[10695]	ug/L

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

Autosampler Location: 5
 Date Collected: 4/5/2010 08:10:24
 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	3314.4	3314.4	100.0 %		08:12:38
1	Y RADIAL	3302.3	3302.3	99.33 %		08:12:38
1	Al 396.153Radial†	39739.0	39831.1	[50000] ug/L		08:12:18
1	Ca 317.933Radial†	15679.5	15669.6	[50000] ug/L		08:12:18
1	Fe 238.204 Radial†	739.6	733.3	[20000] ug/L		08:12:38
1	Mg 279.077 IEC†	642.0	641.3	[50000] ug/L		08:12:38
1	Na 589.592 Radial†	90416.1	91131.7	[20000] ug/L		08:12:18
1	Sc 361.383	667951.7	667951.7	99.372 %		08:13:35
1	Y 371.029	558114.4	558114.4	97.846 %		08:13:35
2	Sc Radial	3438.8	3438.8	104 %		08:13:03
2	Y RADIAL	3412.3	3412.3	102.6 %		08:13:03
2	Al 396.153Radial†	41516.8	40107.0	[50000] ug/L		08:12:43
2	Ca 317.933Radial†	16237.7	15640.4	[50000] ug/L		08:12:43
2	Fe 238.204 Radial†	759.9	726.2	[20000] ug/L		08:13:03
2	Mg 279.077 IEC†	654.0	629.6	[50000] ug/L		08:13:03
2	Na 589.592 Radial†	97128.7	94330.9	[20000] ug/L		08:12:43
2	Sc 361.383	660266.1	660266.1	98.228 %		08:13:41
2	Y 371.029	552254.1	552254.1	96.819 %		08:13:41
3	Sc Radial	3334.7	3334.7	101 %		08:13:28
3	Y RADIAL	3331.0	3331.0	100.2 %		08:13:28
3	Al 396.153Radial†	41606.8	41445.7	[50000] ug/L		08:13:08
3	Ca 317.933Radial†	16305.1	16196.0	[50000] ug/L		08:13:08
3	Fe 238.204 Radial†	746.9	736.0	[20000] ug/L		08:13:28
3	Mg 279.077 IEC†	651.6	646.9	[50000] ug/L		08:13:28
3	Na 589.592 Radial†	97413.0	97536.0	[20000] ug/L		08:13:08
3	Sc 361.383	669157.1	669157.1	99.551 %		08:13:46
3	Y 371.029	559936.3	559936.3	98.165 %		08:13:46

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sc 361.383	665791.6	4823.07	0.72%	99.050 %	
Sc Radial	3362.6	66.74	1.98%	101 %	
Y 371.029	556768.3	4014.11	0.72%	97.610 %	
Y RADIAL	3348.5	57.08	1.70%	100.7 %	
Al 396.153Radial†	40461.3	863.62	2.13%	[50000] ug/L	
Ca 317.933Radial†	15835.3	312.65	1.97%	[50000] ug/L	
Fe 238.204 Radial†	731.8	5.10	0.70%	[20000] ug/L	
Mg 279.077 IEC†	639.3	8.82	1.38%	[50000] ug/L	
Na 589.592 Radial†	94332.9	3202.16	3.39%	[20000] ug/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	169.2	0.00000	0.999987	
Al 396.153Radial	3	Lin Thru 0	0.0	0.8091	0.00000	0.999996	
As 188.979	3	Lin Thru 0	0.0	1.391	0.00000	0.999984	
B 249.677	3	Lin Thru 0	0.0	30.81	0.00000	0.999996	
Ba 233.527	3	Lin Thru 0	0.0	84.92	0.00000	0.999981	
Be 313.107	3	Lin Thru 0	0.0	1928	0.00000	0.999989	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.3170	0.00000	0.999990	
Cd 226.502	3	Lin Thru 0	0.0	50.95	0.00000	0.999985	
Co 228.616	3	Lin Thru 0	0.0	30.18	0.00000	0.999991	
Cr 267.716	3	Lin Thru 0	0.0	57.68	0.00000	0.999989	
Cu 324.752	3	Lin Thru 0	0.0	275.5	0.00000	0.999969	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0368	0.00000	0.999914	
K 766.490 Radial	3	Lin Thru 0	0.0	8.222	0.00000	0.999850	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0128	0.00000	0.999965
Mn 257.610	3	Lin Thru 0	0.0	615.3	0.00000	0.999987
Mo 202.031	3	Lin Thru 0	0.0	8.609	0.00000	0.999968
Na 589.592 Radia	2	Lin Thru 0	0.0	4.677	0.00000	0.999855
Ni 231.604	3	Lin Thru 0	0.0	23.82	0.00000	0.999994
P 214.914	3	Lin Thru 0	0.0	1.009	0.00000	0.999981
Pb 220.353	3	Lin Thru 0	0.0	4.773	0.00000	0.999932
S 181.975 Axial	3	Lin Thru 0	0.0	0.4320	0.00000	0.999987
Sb 206.836	3	Lin Thru 0	0.0	1.952	0.00000	0.999994
Se 196.026	3	Lin Thru 0	0.0	0.8900	0.00000	0.999973
Si 251.611	3	Lin Thru 0	0.0	21.69	0.00000	0.999995
Sn 189.927	3	Lin Thru 0	0.0	3.196	0.00000	0.999994
Sr 421.552	3	Lin Thru 0	0.0	113.2	0.00000	0.999958
Ti 334.940	3	Lin Thru 0	0.0	501.3	0.00000	0.999973
Tl 190.801	3	Lin Thru 0	0.0	2.025	0.00000	0.999959
U 409.014	3	Lin Thru 0	0.0	31.28	0.00000	0.999967
V 292.402	3	Lin Thru 0	0.0	103.2	0.00000	0.999996
Zn 213.857	3	Lin Thru 0	0.0	64.45	0.00000	0.999983
SiO2	3	Lin Thru 0	0.0	10.08	0.00000	0.999987

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 4/5/2010 08:15:58

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3273.7	3273.7	98.8 %			08:18:11
1	Y RADIAL	3294.6	3294.6	99.10 %			08:18:11
1	Al 396.153Radial†	4000.1	4136.9	5086.9 ug/L	5086.9	ppb	08:17:51
1	Ca 317.933Radial†	1638.4	1646.9	5195.4 ug/L	5195.4	ppb	08:18:11
1	Fe 238.204 Radial†	194.3	190.4	5184.1 ug/L	5184.1	ppb	08:18:11
1	K 766.490 Radial†	21112.8	18833.8	2287.3 ug/L	2287.3	ppb	08:17:51
1	Mg 279.077 IEC†	71.6	71.7	5594.1 ug/L	5594.1	ppb	08:18:11
1	Na 589.592 Radial†	8877.1	9691.4	2072.2 ug/L	2072.2	ppb	08:17:51
1	Sr 421.552†	57852.2	58563.1	517.13 ug/L	517.13	ppb	08:17:51
1	Sc 361.383	707018.9	707018.9	105.18 %			08:19:09
1	Y 371.029	594298.7	594298.7	104.19 %			08:19:09
1	Ag 328.068†	46385.1	43984.7	263.13 ug/L	263.13	ppb	08:19:09
1	As 188.979†	686.5	665.7	482.88 ug/L	482.88	ppb	08:19:29
1	B 249.677†	17180.0	16285.7	526.33 ug/L	526.33	ppb	08:19:09
1	Ba 233.527†	46081.3	43800.1	517.05 ug/L	517.05	ppb	08:19:09
1	Be 313.107†	522831.1	501377.1	261.18 ug/L	261.18	ppb	08:19:09
1	Cd 226.502†	26884.9	25702.6	504.32 ug/L	504.32	ppb	08:19:09
1	Co 228.616†	16030.7	15273.1	506.29 ug/L	506.29	ppb	08:19:29
1	Cr 267.716†	29832.3	28305.7	491.85 ug/L	491.85	ppb	08:19:09
1	Cu 324.752†	157145.3	144874.5	525.94 ug/L	525.94	ppb	08:19:09
1	Mn 257.610†	333752.2	316775.6	515.12 ug/L	515.12	ppb	08:19:09
1	Mo 202.031†	4900.0	4648.7	540.44 ug/L	540.44	ppb	08:19:29
1	Ni 231.604†	12517.0	11826.8	496.16 ug/L	496.16	ppb	08:19:29
1	P 214.914†	2859.5	2570.6	2446.1 ug/L	2446.1	ppb	08:19:29
1	Pb 220.353†	2508.4	2428.9	510.75 ug/L	510.75	ppb	08:19:29
1	S 181.975 Axial†	1163.0	1084.4	2509.1 ug/L	2509.1	ppb	08:19:29
1	Sb 206.836†	1042.8	971.7	517.32 ug/L	517.32	ppb	08:19:29
1	Se 196.026†	2464.3	2354.2	2662.2 ug/L	2662.2	ppb	08:19:29
1	Si 251.611†	112832.2	106743.1	4914.0 ug/L	4914.0	ppb	08:19:09
1	Sn 189.927†	1815.6	1720.5	539.23 ug/L	539.23	ppb	08:19:29
1	Ti 334.940†	262478.8	250326.3	499.18 ug/L	499.18	ppb	08:19:09
1	Tl 190.801†	1101.0	1069.6	531.74 ug/L	531.74	ppb	08:19:29
1	U 409.014†	14559.2	15024.2	478.62 ug/L	478.62	ppb	08:19:09
1	V 292.402†	53880.6	52399.7	514.70 ug/L	514.70	ppb	08:19:09
1	Zn 213.857†	35410.0	33221.6	510.81 ug/L	510.81	ppb	08:19:09
1	SiO2†	113351.3	107225.4	10620 ug/L	10620	ppb	08:20:26
2	Sc Radial	3261.8	3261.8	98.4 %			08:18:36
2	Y RADIAL	3267.5	3267.5	98.28 %			08:18:36
2	Al 396.153Radial†	4122.7	4276.1	5259.6 ug/L	5259.6	ppb	08:18:16
2	Ca 317.933Radial†	1640.7	1655.3	5221.9 ug/L	5221.9	ppb	08:18:36
2	Fe 238.204 Radial†	193.1	189.9	5170.4 ug/L	5170.4	ppb	08:18:36
2	K 766.490 Radial†	21649.0	19456.5	2363.0 ug/L	2363.0	ppb	08:18:16
2	Mg 279.077 IEC†	68.5	68.8	5371.0 ug/L	5371.0	ppb	08:18:36
2	Na 589.592 Radial†	9170.6	10022.4	2143.0 ug/L	2143.0	ppb	08:18:16
2	Sr 421.552†	59101.8	60046.1	530.23 ug/L	530.23	ppb	08:18:16
2	Sc 361.383	715009.0	715009.0	106.37 %			08:19:35
2	Y 371.029	600306.3	600306.3	105.24 %			08:19:35
2	Ag 328.068†	46931.6	44005.6	263.26 ug/L	263.26	ppb	08:19:35
2	As 188.979†	684.5	656.5	476.28 ug/L	476.28	ppb	08:19:55
2	B 249.677†	17338.7	16252.3	525.26 ug/L	525.26	ppb	08:19:35
2	Ba 233.527†	46760.5	43949.1	518.81 ug/L	518.81	ppb	08:19:35
2	Be 313.107†	528755.4	501391.8	261.19 ug/L	261.19	ppb	08:19:35
2	Cd 226.502†	27275.1	25783.8	505.90 ug/L	505.90	ppb	08:19:35
2	Co 228.616†	15975.1	15050.5	498.89 ug/L	498.89	ppb	08:19:55
2	Cr 267.716†	30279.1	28408.8	493.64 ug/L	493.64	ppb	08:19:35
2	Cu 324.752†	158656.4	144625.4	525.03 ug/L	525.03	ppb	08:19:35
2	Mn 257.610†	338054.6	317274.3	515.94 ug/L	515.94	ppb	08:19:35
2	Mo 202.031†	4850.0	4549.6	528.94 ug/L	528.94	ppb	08:19:55
2	Ni 231.604†	12451.2	11631.9	487.98 ug/L	487.98	ppb	08:19:55

2	P 214.914†	2846.3	2527.8	2403.9 ug/L	2403.9 ppb	08:19:55
2	Pb 220.353†	2502.9	2397.1	504.11 ug/L	504.11 ppb	08:19:55
2	S 181.975 Axial†	1151.9	1061.5	2456.1 ug/L	2456.1 ppb	08:19:55
2	Sb 206.836†	1053.5	970.7	516.37 ug/L	516.37 ppb	08:19:55
2	Se 196.026†	2433.7	2299.3	2600.4 ug/L	2600.4 ppb	08:19:55
2	Si 251.611†	114143.3	106776.9	4915.7 ug/L	4915.7 ppb	08:19:35
2	Sn 189.927†	1800.6	1687.1	528.78 ug/L	528.78 ppb	08:19:55
2	Ti 334.940†	265471.9	250351.5	499.25 ug/L	499.25 ppb	08:19:35
2	Tl 190.801†	1115.5	1071.6	532.77 ug/L	532.77 ppb	08:19:55
2	U 409.014†	14684.3	14987.1	477.43 ug/L	477.43 ppb	08:19:35
2	V 292.402†	54602.6	52506.0	515.56 ug/L	515.56 ppb	08:19:35
2	Zn 213.857†	35821.9	33232.7	511.04 ug/L	511.04 ppb	08:19:35
2	SiO2†	112469.7	105192.4	10419 ug/L	10419 ppb	08:20:31
3	Sc Radial	3345.1	3345.1	101 %		08:19:01
3	Y RADIAL	3346.7	3346.7	100.7 %		08:19:01
3	Al 396.153Radial†	4165.7	4214.5	5182.7 ug/L	5182.7 ppb	08:18:41
3	Ca 317.933Radial†	1667.7	1640.5	5175.4 ug/L	5175.4 ppb	08:19:01
3	Fe 238.204 Radial†	193.7	185.6	5053.9 ug/L	5053.9 ppb	08:19:01
3	K 766.490 Radial†	21773.8	19032.3	2311.4 ug/L	2311.4 ppb	08:18:41
3	Mg 279.077 IEC†	69.4	68.0	5306.7 ug/L	5306.7 ppb	08:19:01
3	Na 589.592 Radial†	9373.1	9991.0	2136.3 ug/L	2136.3 ppb	08:18:41
3	Sr 421.552†	59971.9	59413.0	524.64 ug/L	524.64 ppb	08:18:41
3	Sc 361.383	699184.7	699184.7	104.02 %		08:20:01
3	Y 371.029	586468.2	586468.2	102.82 %		08:20:01
3	Ag 328.068†	45882.6	43995.7	263.16 ug/L	263.16 ppb	08:20:01
3	As 188.979†	676.8	663.6	481.38 ug/L	481.38 ppb	08:20:21
3	B 249.677†	16985.0	16281.3	526.19 ug/L	526.19 ppb	08:20:01
3	Ba 233.527†	45890.4	44107.5	520.67 ug/L	520.67 ppb	08:20:01
3	Be 313.107†	518358.6	502646.9	261.84 ug/L	261.84 ppb	08:20:01
3	Cd 226.502†	26811.3	25918.2	508.56 ug/L	508.56 ppb	08:20:01
3	Co 228.616†	15978.1	15393.3	510.28 ug/L	510.28 ppb	08:20:21
3	Cr 267.716†	29728.8	28524.0	495.62 ug/L	495.62 ppb	08:20:01
3	Cu 324.752†	153861.3	143391.3	520.55 ug/L	520.55 ppb	08:20:01
3	Mn 257.610†	331786.4	318441.0	517.82 ug/L	517.82 ppb	08:20:01
3	Mo 202.031†	4871.2	4673.2	543.28 ug/L	543.28 ppb	08:20:21
3	Ni 231.604†	12467.8	11912.8	499.76 ug/L	499.76 ppb	08:20:21
3	P 214.914†	2847.3	2589.4	2466.0 ug/L	2466.0 ppb	08:20:21
3	Pb 220.353†	2501.2	2448.7	514.94 ug/L	514.94 ppb	08:20:21
3	S 181.975 Axial†	1154.2	1088.3	2518.2 ug/L	2518.2 ppb	08:20:21
3	Sb 206.836†	1054.1	993.6	528.66 ug/L	528.66 ppb	08:20:21
3	Se 196.026†	2442.7	2359.7	2668.0 ug/L	2668.0 ppb	08:20:21
3	Si 251.611†	111346.3	106516.6	4903.6 ug/L	4903.6 ppb	08:20:01
3	Sn 189.927†	1804.4	1729.0	541.90 ug/L	541.90 ppb	08:20:21
3	Ti 334.940†	259545.2	250302.1	499.15 ug/L	499.15 ppb	08:20:01
3	Tl 190.801†	1103.3	1083.5	538.64 ug/L	538.64 ppb	08:20:21
3	U 409.014†	14335.9	14964.6	476.72 ug/L	476.72 ppb	08:20:01
3	V 292.402†	53336.2	52450.2	515.24 ug/L	515.24 ppb	08:20:01
3	Zn 213.857†	35148.7	33347.6	512.77 ug/L	512.77 ppb	08:20:01
3	SiO2†	111587.2	106736.9	10572 ug/L	10572 ppb	08:20:36

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	707070.9	105.19 %	1.177			1.12%
Sc Radial	3293.5	99.4 %	1.36			1.37%
Y 371.029	593691.1	104.08 %	1.217			1.17%
Y RADIAL	3302.9	99.35 %	1.212			1.22%
Ag 328.068†	43995.4	263.18 ug/L	0.065	263.18 ppb	0.065	0.02%
QC value within limits for Ag 328.068 Recovery = 105.27%						
Al 396.153Radial†	4209.2	5176.4 ug/L	86.51	5176.4 ppb	86.51	1.67%
QC value within limits for Al 396.153Radial Recovery = 103.53%						
As 188.979†	661.9	480.18 ug/L	3.457	480.18 ppb	3.457	0.72%
QC value within limits for As 188.979 Recovery = 96.04%						
B 249.677†	16273.1	525.93 ug/L	0.577	525.93 ppb	0.577	0.11%
QC value within limits for B 249.677 Recovery = 105.19%						
Ba 233.527†	43952.3	518.84 ug/L	1.809	518.84 ppb	1.809	0.35%
QC value within limits for Ba 233.527 Recovery = 103.77%						
Be 313.107†	501805.3	261.41 ug/L	0.378	261.41 ppb	0.378	0.14%
QC value within limits for Be 313.107 Recovery = 104.56%						
Ca 317.933Radial†	1647.5	5197.6 ug/L	23.34	5197.6 ppb	23.34	0.45%

QC value within limits for Ca 317.933 Radial Recovery = 103.95%

Cd 226.502†	25801.5	506.26 ug/L	2.146	506.26 ppb	2.146	0.42%
QC value within limits for Cd 226.502 Recovery = 101.25%						
Co 228.616†	15239.0	505.15 ug/L	5.782	505.15 ppb	5.782	1.14%
QC value within limits for Co 228.616 Recovery = 101.03%						
Cr 267.716†	28412.9	493.70 ug/L	1.887	493.70 ppb	1.887	0.38%
QC value within limits for Cr 267.716 Recovery = 98.74%						
Cu 324.752†	144297.1	523.84 ug/L	2.887	523.84 ppb	2.887	0.55%
QC value within limits for Cu 324.752 Recovery = 104.77%						
Fe 238.204 Radial†	188.6	5136.1 ug/L	71.51	5136.1 ppb	71.51	1.39%
QC value within limits for Fe 238.204 Radial Recovery = 102.72%						
K 766.490 Radial†	19107.5	2320.5 ug/L	38.68	2320.5 ppb	38.68	1.67%
QC value within limits for K 766.490 Radial Recovery = 92.82%						
Mg 279.077 IEC†	69.5	5423.9 ug/L	150.83	5423.9 ppb	150.83	2.78%
QC value within limits for Mg 279.077 IEC Recovery = 108.48%						
Mn 257.610†	317497.0	516.29 ug/L	1.388	516.29 ppb	1.388	0.27%
QC value within limits for Mn 257.610 Recovery = 103.26%						
Mo 202.031†	4623.8	537.55 ug/L	7.594	537.55 ppb	7.594	1.41%
QC value within limits for Mo 202.031 Recovery = 107.51%						
Na 589.592 Radial†	9901.6	2117.2 ug/L	39.07	2117.2 ppb	39.07	1.85%
QC value less than the lower limit for Na 589.592 Radial Recovery = 84.69%						
Ni 231.604†	11790.5	494.63 ug/L	6.037	494.63 ppb	6.037	1.22%
QC value within limits for Ni 231.604 Recovery = 98.93%						
P 214.914†	2562.6	2438.7 ug/L	31.73	2438.7 ppb	31.73	1.30%
QC value within limits for P 214.914 Recovery = 97.55%						
Pb 220.353†	2424.9	509.93 ug/L	5.461	509.93 ppb	5.461	1.07%
QC value within limits for Pb 220.353 Recovery = 101.99%						
S 181.975 Axial†	1078.1	2494.5 ug/L	33.50	2494.5 ppb	33.50	1.34%
QC value within limits for S 181.975 Axial Recovery = 99.78%						
Sb 206.836†	978.7	520.78 ug/L	6.836	520.78 ppb	6.836	1.31%
QC value within limits for Sb 206.836 Recovery = 104.16%						
Se 196.026†	2337.7	2643.5 ug/L	37.46	2643.5 ppb	37.46	1.42%
QC value within limits for Se 196.026 Recovery = 105.74%						
Si 251.611†	106678.9	4911.1 ug/L	6.59	4911.1 ppb	6.59	0.13%
QC value within limits for Si 251.611 Recovery = 98.22%						
Sn 189.927†	1712.2	536.64 ug/L	6.932	536.64 ppb	6.932	1.29%
QC value within limits for Sn 189.927 Recovery = 107.33%						
Sr 421.552†	59340.8	524.00 ug/L	6.571	524.00 ppb	6.571	1.25%
QC value within limits for Sr 421.552 Recovery = 104.80%						
Ti 334.940†	250326.6	499.20 ug/L	0.051	499.20 ppb	0.051	0.01%
QC value within limits for Ti 334.940 Recovery = 99.84%						
Tl 190.801†	1074.9	534.38 ug/L	3.721	534.38 ppb	3.721	0.70%
QC value within limits for Tl 190.801 Recovery = 106.88%						
U 409.014†	14992.0	477.59 ug/L	0.960	477.59 ppb	0.960	0.20%
QC value within limits for U 409.014 Recovery = 95.52%						
V 292.402†	52452.0	515.17 ug/L	0.435	515.17 ppb	0.435	0.08%
QC value within limits for V 292.402 Recovery = 103.03%						
Zn 213.857†	33267.3	511.54 ug/L	1.071	511.54 ppb	1.071	0.21%
QC value within limits for Zn 213.857 Recovery = 102.31%						
SiO2†	106384.9	10537 ug/L	105.1	10537 ppb	105.1	1.00%
QC value within limits for SiO2 Recovery = 98.52%						

QC Failed. Continue with analysis.

Sequence No.: 7

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 4/5/2010 08:22:48

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	3367.0	3367.0	102 %		08:25:00
1	Y RADIAL	3377.0	3377.0	101.6 %		08:25:00
1	Al 396.153Radial†	-83.9	3.8	4.7370 ug/L	4.7370 ppb	08:25:00
1	Ca 317.933Radial†	12.0	-0.3	-0.9919 ug/L	-0.9919 ppb	08:25:00
1	Fe 238.204 Radial†	6.0	-0.5	-12.588 ug/L	-12.588 ppb	08:25:00
1	K 766.490 Radial†	2592.0	7.4	0.8899 ug/L	0.8899 ppb	08:24:40
1	Mg 279.077 IEC†	-0.6	-1.4	-106.90 ug/L	-106.90 ppb	08:25:00
1	Na 589.592 Radial†	-650.1	62.7	13.410 ug/L	13.410 ppb	08:24:40
1	Sr 421.552†	20.5	3.7	0.0330 ug/L	0.0330 ppb	08:24:40
1	Sc 361.383	697254.0	697254.0	103.73 %		08:25:57
1	Y 371.029	591670.0	591670.0	103.73 %		08:25:57
1	Ag 328.068†	80.8	-36.6	-0.2266 ug/L	-0.2266 ppb	08:26:02
1	As 188.979†	-20.7	-7.0	-5.0244 ug/L	-5.0244 ppb	08:26:22
1	B 249.677†	142.9	90.1	2.9264 ug/L	2.9264 ppb	08:26:02
1	Ba 233.527†	-0.1	-10.3	-0.1216 ug/L	-0.1216 ppb	08:26:22
1	Be 313.107†	-4444.3	27.6	0.0144 ug/L	0.0144 ppb	08:26:02
1	Cd 226.502†	-130.4	16.9	0.3331 ug/L	0.3331 ppb	08:26:22
1	Co 228.616†	-26.7	6.7	0.2223 ug/L	0.2223 ppb	08:26:22
1	Cr 267.716†	54.0	-4.3	-0.0786 ug/L	-0.0786 ppb	08:26:22
1	Cu 324.752†	4633.1	-60.0	-0.2229 ug/L	-0.2229 ppb	08:26:02
1	Mn 257.610†	472.3	-73.5	-0.1162 ug/L	-0.1162 ppb	08:26:22
1	Mo 202.031†	13.9	3.6	0.4167 ug/L	0.4167 ppb	08:26:22
1	Ni 231.604†	52.1	-23.1	-0.9713 ug/L	-0.9713 ppb	08:26:22
1	P 214.914†	147.0	-6.2	-6.1136 ug/L	-6.1136 ppb	08:26:22
1	Pb 220.353†	-38.7	6.8	1.4278 ug/L	1.4278 ppb	08:26:22
1	S 181.975 Axial†	24.2	2.0	4.5427 ug/L	4.5427 ppb	08:26:22
1	Sb 206.836†	19.8	-0.6	-0.3044 ug/L	-0.3044 ppb	08:26:22
1	Se 196.026†	-12.1	-0.3	-0.3797 ug/L	-0.3797 ppb	08:26:22
1	Si 251.611†	457.4	-87.6	-4.0411 ug/L	-4.0411 ppb	08:26:22
1	Sn 189.927†	5.9	0.0	0.0082 ug/L	0.0082 ppb	08:26:22
1	Ti 334.940†	-780.4	30.6	0.0662 ug/L	0.0662 ppb	08:26:02
1	Tl 190.801†	-25.4	-1.6	-0.8155 ug/L	-0.8155 ppb	08:26:22
1	U 409.014†	-967.2	250.0	7.9953 ug/L	7.9953 ppb	08:25:57
1	V 292.402†	-1214.6	3.5	0.0551 ug/L	0.0551 ppb	08:26:02
1	Zn 213.857†	427.0	-31.6	-0.4826 ug/L	-0.4826 ppb	08:26:22
1	SiO2†	471.8	-85.0	-8.4376 ug/L	-8.4376 ppb	08:27:43
2	Sc Radial	3344.9	3344.9	101 %		08:25:26
2	Y RADIAL	3358.2	3358.2	101.0 %		08:25:26
2	Al 396.153Radial†	-80.5	6.7	8.2775 ug/L	8.2775 ppb	08:25:26
2	Ca 317.933Radial†	10.8	-1.4	-4.4793 ug/L	-4.4793 ppb	08:25:26
2	Fe 238.204 Radial†	6.1	-0.3	-8.2326 ug/L	-8.2326 ppb	08:25:26
2	K 766.490 Radial†	2618.7	50.7	6.1666 ug/L	6.1666 ppb	08:25:06
2	Mg 279.077 IEC†	-2.0	-2.8	-217.32 ug/L	-217.32 ppb	08:25:26
2	Na 589.592 Radial†	-692.3	16.6	3.5413 ug/L	3.5413 ppb	08:25:06
2	Sr 421.552†	28.8	12.2	0.1074 ug/L	0.1074 ppb	08:25:06
2	Sc 361.383	691118.2	691118.2	102.82 %		08:26:27
2	Y 371.029	586167.5	586167.5	102.76 %		08:26:27
2	Ag 328.068†	144.0	25.5	0.1429 ug/L	0.1429 ppb	08:26:32
2	As 188.979†	-18.7	-5.3	-3.7768 ug/L	-3.7768 ppb	08:26:52
2	B 249.677†	125.7	74.6	2.4237 ug/L	2.4237 ppb	08:26:32
2	Ba 233.527†	16.6	6.0	0.0698 ug/L	0.0698 ppb	08:26:52
2	Be 313.107†	-4275.4	153.8	0.0799 ug/L	0.0799 ppb	08:26:32
2	Cd 226.502†	-139.0	7.4	0.1473 ug/L	0.1473 ppb	08:26:52
2	Co 228.616†	-35.2	-1.8	-0.0607 ug/L	-0.0607 ppb	08:26:52
2	Cr 267.716†	40.4	-17.1	-0.2992 ug/L	-0.2992 ppb	08:26:52
2	Cu 324.752†	4504.0	-145.9	-0.5335 ug/L	-0.5335 ppb	08:26:32
2	Mn 257.610†	472.0	-69.7	-0.1052 ug/L	-0.1052 ppb	08:26:52
2	Mo 202.031†	10.4	0.3	0.0353 ug/L	0.0353 ppb	08:26:52
2	Ni 231.604†	62.4	-12.6	-0.5296 ug/L	-0.5296 ppb	08:26:52

2	P 214.914†	150.8	-1.3	-1.1539 ug/L	-1.1539 ppb	08:26:52
2	Pb 220.353†	-30.7	14.2	2.9871 ug/L	2.9871 ppb	08:26:52
2	S 181.975 Axial†	23.0	1.1	2.4452 ug/L	2.4452 ppb	08:26:52
2	Sb 206.836†	26.3	5.8	3.0008 ug/L	3.0008 ppb	08:26:52
2	Se 196.026†	-12.4	-0.7	-0.7791 ug/L	-0.7791 ppb	08:26:52
2	Si 251.611†	487.1	-54.8	-2.5257 ug/L	-2.5257 ppb	08:26:52
2	Sn 189.927†	8.4	2.5	0.7908 ug/L	0.7908 ppb	08:26:52
2	Ti 334.940†	-773.7	30.5	0.0754 ug/L	0.0754 ppb	08:26:32
2	Tl 190.801†	-28.5	-4.8	-2.3923 ug/L	-2.3923 ppb	08:26:52
2	U 409.014†	-1023.8	186.7	5.9715 ug/L	5.9715 ppb	08:26:27
2	V 292.402†	-1226.2	-18.2	-0.1670 ug/L	-0.1670 ppb	08:26:32
2	Zn 213.857†	429.3	-25.8	-0.3947 ug/L	-0.3947 ppb	08:26:52
2	SiO2†	465.5	-87.0	-8.6333 ug/L	-8.6333 ppb	08:28:03
3	Sc Radial	3368.5	3368.5	102 %		08:25:51
3	Y RADIAL	3370.3	3370.3	101.4 %		08:25:51
3	Al 396.153Radial†	-73.7	14.0	17.289 ug/L	17.289 ppb	08:25:51
3	Ca 317.933Radial†	13.8	1.4	4.4521 ug/L	4.4521 ppb	08:25:51
3	Fe 238.204 Radial†	7.7	1.2	31.260 ug/L	31.260 ppb	08:25:51
3	K 766.490 Radial†	2497.8	-86.4	-10.510 ug/L	-10.510 ppb	08:25:31
3	Mg 279.077 IEC†	0.4	-0.4	-29.929 ug/L	-29.929 ppb	08:25:51
3	Na 589.592 Radial†	-725.2	-11.0	-2.3513 ug/L	-2.3513 ppb	08:25:31
3	Sr 421.552†	43.6	26.5	0.2344 ug/L	0.2344 ppb	08:25:31
3	Sc 361.383	683718.6	683718.6	101.72 %		08:26:58
3	Y 371.029	580673.2	580673.2	101.80 %		08:26:58
3	Ag 328.068†	131.5	14.8	0.0963 ug/L	0.0963 ppb	08:27:03
3	As 188.979†	-11.9	1.2	0.8989 ug/L	0.8989 ppb	08:27:23
3	B 249.677†	102.6	53.2	1.7218 ug/L	1.7218 ppb	08:27:03
3	Ba 233.527†	14.7	4.3	0.0519 ug/L	0.0519 ppb	08:27:23
3	Be 313.107†	-4231.2	152.2	0.0788 ug/L	0.0788 ppb	08:27:03
3	Cd 226.502†	-138.2	6.7	0.1274 ug/L	0.1274 ppb	08:27:23
3	Co 228.616†	-22.7	10.0	0.3308 ug/L	0.3308 ppb	08:27:23
3	Cr 267.716†	50.6	-6.6	-0.1114 ug/L	-0.1114 ppb	08:27:23
3	Cu 324.752†	4504.8	-97.7	-0.3538 ug/L	-0.3538 ppb	08:27:03
3	Mn 257.610†	450.7	-85.6	-0.1349 ug/L	-0.1349 ppb	08:27:23
3	Mo 202.031†	3.5	-6.4	-0.7359 ug/L	-0.7359 ppb	08:27:23
3	Ni 231.604†	56.0	-18.3	-0.7665 ug/L	-0.7665 ppb	08:27:23
3	P 214.914†	143.5	-6.9	-6.7480 ug/L	-6.7480 ppb	08:27:23
3	Pb 220.353†	-38.8	6.0	1.2551 ug/L	1.2551 ppb	08:27:23
3	S 181.975 Axial†	19.5	-2.2	-5.0555 ug/L	-5.0555 ppb	08:27:23
3	Sb 206.836†	25.7	5.6	2.8606 ug/L	2.8606 ppb	08:27:23
3	Se 196.026†	-19.2	-7.5	-8.3964 ug/L	-8.3964 ppb	08:27:23
3	Si 251.611†	446.7	-89.4	-4.1100 ug/L	-4.1100 ppb	08:27:23
3	Sn 189.927†	10.7	4.8	1.5125 ug/L	1.5125 ppb	08:27:23
3	Ti 334.940†	-820.6	-23.8	-0.0451 ug/L	-0.0451 ppb	08:27:03
3	Tl 190.801†	-23.5	-0.2	-0.1153 ug/L	-0.1153 ppb	08:27:23
3	U 409.014†	-1160.3	41.8	1.3323 ug/L	1.3323 ppb	08:26:58
3	V 292.402†	-1179.0	15.3	0.1351 ug/L	0.1351 ppb	08:27:03
3	Zn 213.857†	422.7	-27.8	-0.4304 ug/L	-0.4304 ppb	08:27:23
3	SiO2†	484.1	-63.8	-6.3123 ug/L	-6.3123 ppb	08:28:23

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	690696.9	102.76 %		1.008			0.98%
Sc Radial	3360.1	101 %		0.4			0.39%
Y 371.029	586170.3	102.76 %		0.964			0.94%
Y RADIAL	3368.5	101.3 %		0.29			0.28%
Ag 328.068†	1.2	0.0042 ug/L		0.20124	0.0042 ppb	0.20124	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	8.2	10.101 ug/L		6.4719	10.101 ppb	6.4719	64.07%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-3.7	-2.6341 ug/L		3.12257	-2.6341 ppb	3.12257	118.54%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	72.7	2.3573 ug/L		0.60507	2.3573 ppb	0.60507	25.67%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-0.0	0.0000 ug/L		0.10575	0.0000 ppb	0.10575	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	111.2	0.0577 ug/L		0.03749	0.0577 ppb	0.03749	64.94%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-0.1	-0.3397 ug/L		4.50130	-0.3397 ppb	4.50130	>999.9%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	10.3	0.2026 ug/L	0.11349	0.2026 ppb	0.11349	56.01%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	5.0	0.1641 ug/L	0.20210	0.1641 ppb	0.20210	123.14%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	-9.3	-0.1631 ug/L	0.11903	-0.1631 ppb	0.11903	73.00%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-101.2	-0.3701 ug/L	0.15594	-0.3701 ppb	0.15594	42.14%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	0.1	3.4796 ug/L	24.15671	3.4796 ppb	24.15671	694.24%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	-9.5	-1.1511 ug/L	8.52355	-1.1511 ppb	8.52355	740.44%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-1.5	-118.05 ug/L	94.190	-118.05 ppb	94.190	79.79%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-76.3	-0.1188 ug/L	0.01498	-0.1188 ppb	0.01498	12.61%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	-0.8	-0.0946 ug/L	0.58719	-0.0946 ppb	0.58719	620.53%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	22.8	4.8668 ug/L	7.96398	4.8668 ppb	7.96398	163.64%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-18.0	-0.7558 ug/L	0.22103	-0.7558 ppb	0.22103	29.25%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	-4.8	-4.6718 ug/L	3.06309	-4.6718 ppb	3.06309	65.56%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	9.0	1.8900 ug/L	0.95405	1.8900 ppb	0.95405	50.48%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	0.3	0.6441 ug/L	5.04622	0.6441 ppb	5.04622	783.44%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	3.6	1.8523 ug/L	1.86908	1.8523 ppb	1.86908	100.90%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	-2.8	-3.1851 ug/L	4.51754	-3.1851 ppb	4.51754	141.83%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	-77.2	-3.5590 ug/L	0.89545	-3.5590 ppb	0.89545	25.16%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	2.5	0.7705 ug/L	0.75237	0.7705 ppb	0.75237	97.65%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	14.1	0.1249 ug/L	0.10186	0.1249 ppb	0.10186	81.53%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	12.4	0.0322 ug/L	0.06705	0.0322 ppb	0.06705	208.43%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	-2.2	-1.1077 ug/L	1.16629	-1.1077 ppb	1.16629	105.29%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	159.5	5.0997 ug/L	3.41600	5.0997 ppb	3.41600	66.98%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	0.2	0.0077 ug/L	0.15656	0.0077 ppb	0.15656	>999.9%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	-28.4	-0.4359 ug/L	0.04424	-0.4359 ppb	0.04424	10.15%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		-78.6	-7.7944 ug/L	1.28726	-7.7944 ppb	1.28726	16.52%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 4/5/2010 08:30:34

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	3234.0	3234.0	97.6 %		08:32:47
1	Y RADIAL	3275.1	3275.1	98.51 %		08:32:47
1	Al 396.153Radial†	79.7	168.1	207.32 ug/L	207.32 ppb	08:32:47
1	Ca 317.933Radial†	76.6	66.4	209.35 ug/L	209.35 ppb	08:32:47
1	Fe 238.204 Radial†	9.2	3.0	82.126 ug/L	82.126 ppb	08:32:47
1	K 766.490 Radial†	3514.4	1057.8	128.48 ug/L	128.48 ppb	08:32:27
1	Mg 279.077 IEC†	5.4	4.7	366.72 ug/L	366.72 ppb	08:32:47
1	Na 589.592 Radial†	328.2	1039.1	222.18 ug/L	222.18 ppb	08:32:27
1	Sr 421.552†	575.2	573.1	5.0598 ug/L	5.0598 ppb	08:32:27
1	Sc 361.383	702046.8	702046.8	104.44 %		08:33:44
1	Y 371.029	596658.6	596658.6	104.60 %		08:33:44
1	Ag 328.068†	1035.5	877.0	5.1835 ug/L	5.1835 ppb	08:33:44
1	As 188.979†	27.9	39.7	28.590 ug/L	28.590 ppb	08:34:04
1	B 249.677†	1586.9	1471.8	47.743 ug/L	47.743 ppb	08:34:04
1	Ba 233.527†	470.6	440.4	5.2010 ug/L	5.2010 ppb	08:34:04
1	Be 313.107†	5783.9	9849.9	5.1205 ug/L	5.1205 ppb	08:33:44
1	Cd 226.502†	129.2	266.2	5.2300 ug/L	5.2300 ppb	08:34:04
1	Co 228.616†	136.0	162.6	5.4011 ug/L	5.4011 ppb	08:34:04
1	Cr 267.716†	349.3	278.1	4.8167 ug/L	4.8167 ppb	08:34:04
1	Cu 324.752†	7640.2	2788.6	10.098 ug/L	10.098 ppb	08:33:44
1	Mn 257.610†	7291.9	6452.9	10.481 ug/L	10.481 ppb	08:33:44
1	Mo 202.031†	98.5	84.5	9.8231 ug/L	9.8231 ppb	08:34:04
1	Ni 231.604†	180.9	99.9	4.1892 ug/L	4.1892 ppb	08:34:04
1	P 214.914†	300.6	139.8	136.66 ug/L	136.66 ppb	08:34:04
1	Pb 220.353†	17.2	60.6	12.764 ug/L	12.764 ppb	08:34:04
1	S 181.975 Axial†	66.5	42.4	98.014 ug/L	98.014 ppb	08:34:04
1	Sb 206.836†	36.1	14.8	7.9357 ug/L	7.9357 ppb	08:34:04
1	Se 196.026†	11.9	22.7	25.862 ug/L	25.862 ppb	08:34:04
1	Si 251.611†	2839.1	2189.8	100.82 ug/L	100.82 ppb	08:34:04
1	Sn 189.927†	39.6	32.2	10.116 ug/L	10.116 ppb	08:34:04
1	Ti 334.940†	1874.7	2577.8	5.1145 ug/L	5.1145 ppb	08:33:44
1	Tl 190.801†	18.4	40.4	20.032 ug/L	20.032 ppb	08:34:04
1	U 409.014†	546.0	1705.3	54.496 ug/L	54.496 ppb	08:33:44
1	V 292.402†	-621.3	579.5	5.8436 ug/L	5.8436 ppb	08:34:04
1	Zn 213.857†	1127.9	636.5	9.8238 ug/L	9.8238 ppb	08:34:04
1	SiO2†	2871.6	2209.6	218.89 ug/L	218.89 ppb	08:35:00
2	Sc Radial	3321.3	3321.3	100 %		08:33:13
2	Y RADIAL	3328.5	3328.5	100.1 %		08:33:13
2	Al 396.153Radial†	85.9	172.2	212.35 ug/L	212.35 ppb	08:33:13
2	Ca 317.933Radial†	75.1	62.8	198.16 ug/L	198.16 ppb	08:33:13
2	Fe 238.204 Radial†	10.9	4.5	121.56 ug/L	121.56 ppb	08:33:13
2	K 766.490 Radial†	3472.6	921.3	111.87 ug/L	111.87 ppb	08:32:53
2	Mg 279.077 IEC†	4.7	3.9	303.95 ug/L	303.95 ppb	08:33:13
2	Na 589.592 Radial†	449.6	1151.5	246.21 ug/L	246.21 ppb	08:32:53
2	Sr 421.552†	633.0	615.3	5.4327 ug/L	5.4327 ppb	08:32:53
2	Sc 361.383	699820.0	699820.0	104.11 %		08:34:10
2	Y 371.029	593259.1	593259.1	104.01 %		08:34:10
2	Ag 328.068†	1031.0	875.8	5.1877 ug/L	5.1877 ppb	08:34:10
2	As 188.979†	28.7	40.5	29.203 ug/L	29.203 ppb	08:34:30
2	B 249.677†	1563.1	1453.7	47.149 ug/L	47.149 ppb	08:34:30
2	Ba 233.527†	472.5	443.7	5.2402 ug/L	5.2402 ppb	08:34:30
2	Be 313.107†	5729.6	9815.3	5.1026 ug/L	5.1026 ppb	08:34:10
2	Cd 226.502†	131.6	269.0	5.2800 ug/L	5.2800 ppb	08:34:30
2	Co 228.616†	135.9	162.9	5.4121 ug/L	5.4121 ppb	08:34:30
2	Cr 267.716†	349.6	279.5	4.8441 ug/L	4.8441 ppb	08:34:30
2	Cu 324.752†	7574.7	2749.0	9.9554 ug/L	9.9554 ppb	08:34:10
2	Mn 257.610†	7241.2	6426.4	10.444 ug/L	10.444 ppb	08:34:10
2	Mo 202.031†	109.7	95.5	11.110 ug/L	11.110 ppb	08:34:30
2	Ni 231.604†	194.4	113.4	4.7565 ug/L	4.7565 ppb	08:34:30

2	P 214.914†	305.9	145.9	142.68 ug/L	142.68 ppb	08:34:30
2	Pb 220.353†	22.6	65.8	13.854 ug/L	13.854 ppb	08:34:30
2	S 181.975 Axial†	65.1	41.2	95.213 ug/L	95.213 ppb	08:34:30
2	Sb 206.836†	37.8	16.5	8.8791 ug/L	8.8791 ppb	08:34:30
2	Se 196.026†	10.1	21.1	24.123 ug/L	24.123 ppb	08:34:30
2	Si 251.611†	2847.5	2206.5	101.58 ug/L	101.58 ppb	08:34:30
2	Sn 189.927†	44.2	36.8	11.538 ug/L	11.538 ppb	08:34:30
2	Ti 334.940†	1878.7	2587.4	5.1370 ug/L	5.1370 ppb	08:34:10
2	Tl 190.801†	19.6	41.7	20.665 ug/L	20.665 ppb	08:34:30
2	U 409.014†	560.6	1720.9	54.992 ug/L	54.992 ppb	08:34:10
2	V 292.402†	-634.2	565.2	5.7174 ug/L	5.7174 ppb	08:34:30
2	Zn 213.857†	1126.2	638.4	9.8433 ug/L	9.8433 ppb	08:34:30
2	SiO2†	2939.7	2283.8	226.21 ug/L	226.21 ppb	08:35:05
3	Sc Radial	3390.6	3390.6	102 %		08:33:38
3	Y RADIAL	3404.2	3404.2	102.4 %		08:33:38
3	Al 396.153Radial†	93.3	177.7	219.08 ug/L	219.08 ppb	08:33:38
3	Ca 317.933Radial†	78.8	64.9	204.66 ug/L	204.66 ppb	08:33:38
3	Fe 238.204 Radial†	13.0	6.3	171.09 ug/L	171.09 ppb	08:33:38
3	K 766.490 Radial†	3485.6	863.2	104.81 ug/L	104.81 ppb	08:33:18
3	Mg 279.077 IEC†	5.8	4.9	378.97 ug/L	378.97 ppb	08:33:38
3	Na 589.592 Radial†	460.3	1152.7	246.46 ug/L	246.46 ppb	08:33:18
3	Sr 421.552†	590.1	560.5	4.9486 ug/L	4.9486 ppb	08:33:18
3	Sc 361.383	696046.4	696046.4	103.55 %		08:34:35
3	Y 371.029	590491.3	590491.3	103.52 %		08:34:35
3	Ag 328.068†	1049.7	899.2	5.3399 ug/L	5.3399 ppb	08:34:35
3	As 188.979†	28.7	40.6	29.277 ug/L	29.277 ppb	08:34:55
3	B 249.677†	1611.3	1508.5	48.920 ug/L	48.920 ppb	08:34:55
3	Ba 233.527†	473.0	446.6	5.2770 ug/L	5.2770 ppb	08:34:55
3	Be 313.107†	5578.2	9698.9	5.0423 ug/L	5.0423 ppb	08:34:35
3	Cd 226.502†	129.0	267.1	5.2396 ug/L	5.2396 ppb	08:34:55
3	Co 228.616†	122.2	150.4	4.9955 ug/L	4.9955 ppb	08:34:55
3	Cr 267.716†	362.1	293.3	5.0883 ug/L	5.0883 ppb	08:34:55
3	Cu 324.752†	7601.6	2814.4	10.194 ug/L	10.194 ppb	08:34:35
3	Mn 257.610†	7169.4	6394.8	10.394 ug/L	10.394 ppb	08:34:35
3	Mo 202.031†	105.4	92.0	10.697 ug/L	10.697 ppb	08:34:55
3	Ni 231.604†	197.8	117.7	4.9367 ug/L	4.9367 ppb	08:34:55
3	P 214.914†	309.0	150.4	147.09 ug/L	147.09 ppb	08:34:55
3	Pb 220.353†	24.9	68.2	14.341 ug/L	14.341 ppb	08:34:55
3	S 181.975 Axial†	67.0	43.3	100.30 ug/L	100.30 ppb	08:34:55
3	Sb 206.836†	47.2	25.9	13.634 ug/L	13.634 ppb	08:34:55
3	Se 196.026†	15.5	26.3	30.117 ug/L	30.117 ppb	08:34:55
3	Si 251.611†	2887.0	2259.4	104.03 ug/L	104.03 ppb	08:34:55
3	Sn 189.927†	38.8	31.8	9.9784 ug/L	9.9784 ppb	08:34:55
3	Ti 334.940†	1887.0	2605.2	5.1655 ug/L	5.1655 ppb	08:34:35
3	Tl 190.801†	27.2	49.1	24.319 ug/L	24.319 ppb	08:34:55
3	U 409.014†	678.4	1837.6	58.716 ug/L	58.716 ppb	08:34:35
3	V 292.402†	-587.5	607.1	6.1179 ug/L	6.1179 ppb	08:34:55
3	Zn 213.857†	1139.8	657.4	10.129 ug/L	10.129 ppb	08:34:55
3	SiO2†	2920.1	2280.2	225.86 ug/L	225.86 ppb	08:35:10

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	699304.4	104.04 %		0.451			0.43%
Sc Radial	3315.3	100 %		2.4			2.37%
Y 371.029	593469.7	104.04 %		0.542			0.52%
Y RADIAL	3335.9	100.3 %		1.95			1.94%
Ag 328.068†	884.0	5.2370 ug/L		0.08909	5.2370 ppb	0.08909	1.70%
QC value within limits for Ag 328.068 Recovery = 104.74%							
Al 396.153Radial†	172.7	212.91 ug/L		5.900	212.91 ppb	5.900	2.77%
QC value within limits for Al 396.153Radial Recovery = 106.46%							
As 188.979†	40.3	29.023 ug/L		0.3769	29.023 ppb	0.3769	1.30%
QC value within limits for As 188.979 Recovery = 96.74%							
B 249.677†	1478.0	47.937 ug/L		0.9014	47.937 ppb	0.9014	1.88%
QC value within limits for B 249.677 Recovery = 95.87%							
Ba 233.527†	443.6	5.2394 ug/L		0.03801	5.2394 ppb	0.03801	0.73%
QC value within limits for Ba 233.527 Recovery = 104.79%							
Be 313.107†	9788.0	5.0885 ug/L		0.04097	5.0885 ppb	0.04097	0.81%
QC value within limits for Be 313.107 Recovery = 101.77%							
Ca 317.933Radial†	64.7	204.06 ug/L		5.618	204.06 ppb	5.618	2.75%

QC value within limits for Ca 317.933 Radial Recovery = 102.03%							
Cd	226.502†	267.4	5.2499 ug/L	0.02649	5.2499 ppb	0.02649	0.50%
QC value within limits for Cd 226.502 Recovery = 105.00%							
Co	228.616†	158.6	5.2695 ug/L	0.23741	5.2695 ppb	0.23741	4.51%
QC value within limits for Co 228.616 Recovery = 105.39%							
Cr	267.716†	283.6	4.9163 ug/L	0.14953	4.9163 ppb	0.14953	3.04%
QC value within limits for Cr 267.716 Recovery = 98.33%							
Cu	324.752†	2784.0	10.082 ug/L	0.1199	10.082 ppb	0.1199	1.19%
QC value within limits for Cu 324.752 Recovery = 100.82%							
Fe	238.204 Radial†	4.6	124.93 ug/L	44.575	124.93 ppb	44.575	35.68%
QC value within limits for Fe 238.204 Radial Recovery = 124.93%							
K	766.490 Radial†	947.4	115.05 ug/L	12.152	115.05 ppb	12.152	10.56%
QC value within limits for K 766.490 Radial Recovery = 76.70%							
Mg	279.077 IEC†	4.5	349.88 ug/L	40.246	349.88 ppb	40.246	11.50%
QC value within limits for Mg 279.077 IEC Recovery = 116.63%							
Mn	257.610†	6424.7	10.440 ug/L	0.0432	10.440 ppb	0.0432	0.41%
QC value within limits for Mn 257.610 Recovery = 104.40%							
Mo	202.031†	90.7	10.543 ug/L	0.6569	10.543 ppb	0.6569	6.23%
QC value within limits for Mo 202.031 Recovery = 105.43%							
Na	589.592 Radial†	1114.4	238.28 ug/L	13.949	238.28 ppb	13.949	5.85%
QC value within limits for Na 589.592 Radial Recovery = 79.43%							
Ni	231.604†	110.3	4.6275 ug/L	0.39008	4.6275 ppb	0.39008	8.43%
QC value within limits for Ni 231.604 Recovery = 92.55%							
P	214.914†	145.4	142.15 ug/L	5.233	142.15 ppb	5.233	3.68%
QC value within limits for P 214.914 Recovery = 94.76%							
Pb	220.353†	64.9	13.653 ug/L	0.8072	13.653 ppb	0.8072	5.91%
QC value greater than the upper limit for Pb 220.353 Recovery = 136.53%							
S	181.975 Axial†	42.3	97.842 ug/L	2.5471	97.842 ppb	2.5471	2.60%
QC value within limits for S 181.975 Axial Recovery = 97.84%							
Sb	206.836†	19.1	10.150 ug/L	3.0544	10.150 ppb	3.0544	30.09%
QC value within limits for Sb 206.836 Recovery = 101.50%							
Se	196.026†	23.4	26.701 ug/L	3.0843	26.701 ppb	3.0843	11.55%
QC value within limits for Se 196.026 Recovery = 89.00%							
Si	251.611†	2218.6	102.14 ug/L	1.673	102.14 ppb	1.673	1.64%
QC value within limits for Si 251.611 Recovery = 102.14%							
Sn	189.927†	33.6	10.544 ug/L	0.8634	10.544 ppb	0.8634	8.19%
QC value within limits for Sn 189.927 Recovery = 105.44%							
Sr	421.552†	583.0	5.1470 ug/L	0.25354	5.1470 ppb	0.25354	4.93%
QC value within limits for Sr 421.552 Recovery = 102.94%							
Ti	334.940†	2590.1	5.1390 ug/L	0.02553	5.1390 ppb	0.02553	0.50%
QC value within limits for Ti 334.940 Recovery = 102.78%							
Tl	190.801†	43.8	21.672 ug/L	2.3143	21.672 ppb	2.3143	10.68%
QC value within limits for Tl 190.801 Recovery = 108.36%							
U	409.014†	1754.6	56.068 ug/L	2.3068	56.068 ppb	2.3068	4.11%
QC value within limits for U 409.014 Recovery = 112.14%							
V	292.402†	583.9	5.8930 ug/L	0.20480	5.8930 ppb	0.20480	3.48%
QC value within limits for V 292.402 Recovery = 117.86%							
Zn	213.857†	644.1	9.9319 ug/L	0.17058	9.9319 ppb	0.17058	1.72%
QC value within limits for Zn 213.857 Recovery = 99.32%							
SiO2†		2257.9	223.65 ug/L	4.129	223.65 ppb	4.129	1.85%
QC value within limits for SiO2 Recovery = 105.00%							

QC Failed. Continue with analysis.

Sequence No.: 9
 Sample ID: ICSA
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 13
 Date Collected: 4/5/2010 08:37:21
 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	3135.2	3135.2	94.6 %		08:39:36
1	Y RADIAL	3161.8	3161.8	95.11 %		08:39:36
1	Al 396.153Radial†	417781.0	441811.3	546070 ug/L	546070 ppb	08:39:16
1	Ca 317.933Radial†	144973.1	153269.6	483530 ug/L	483530 ppb	08:39:16
1	Fe 238.204 Radial†	6389.3	6749.0	183230 ug/L	183230 ppb	08:39:36
1	K 766.490 Radial†	2135.6	-286.5	-196.58 ug/L	-196.58 ppb	08:39:16
1	Mg 279.077 IEC†	5996.0	6338.9	494660 ug/L	494660 ppb	08:39:36
1	Na 589.592 Radial†	-488.2	186.5	39.884 ug/L	39.884 ppb	08:39:36
1	Sr 421.552†	1343.0	1403.5	8.7841 ug/L	8.7841 ppb	08:39:36
1	Sc 361.383	506631.7	506631.7	75.372 %		08:40:33
1	Y 371.029	447744.7	447744.7	78.496 %		08:40:33
1	Ag 328.068†	-7283.4	-9777.8	-7.6547 ug/L	-7.6547 ppb	08:40:53
1	As 188.979†	-57.6	-63.5	-2.9713 ug/L	-2.9713 ppb	08:40:53
1	B 249.677†	606.7	757.3	-5.1836 ug/L	-5.1836 ppb	08:40:33
1	Ba 233.527†	-404.3	-546.6	-0.8224 ug/L	-0.8224 ppb	08:40:53
1	Be 313.107†	-4223.2	-1291.2	-0.7426 ug/L	-0.7426 ppb	08:40:33
1	Cd 226.502†	931.9	1378.9	8.1473 ug/L	8.1473 ppb	08:40:53
1	Co 228.616†	31.5	74.2	-0.1678 ug/L	-0.1678 ppb	08:40:53
1	Cr 267.716†	-1373.9	-1879.2	-13.160 ug/L	-13.160 ppb	08:40:53
1	Cu 324.752†	2423.4	-1311.3	4.9169 ug/L	4.9169 ppb	08:40:53
1	Mn 257.610†	-1171.9	-2083.5	-5.5221 ug/L	-5.5221 ppb	08:40:33
1	Mo 202.031†	-160.7	-223.0	-5.9257 ug/L	-5.9257 ppb	08:40:53
1	Ni 231.604†	155.4	132.8	5.5731 ug/L	5.5731 ppb	08:40:53
1	P 214.914†	134.4	30.3	18.464 ug/L	18.464 ppb	08:40:53
1	Pb 220.353†	-450.7	-553.8	10.099 ug/L	10.099 ppb	08:40:53
1	S 181.975 Axial†	20.5	5.8	-88.859 ug/L	-88.859 ppb	08:40:53
1	Sb 206.836†	45.1	40.1	1.5875 ug/L	1.5875 ppb	08:40:53
1	Se 196.026†	-647.2	-847.3	-314.08 ug/L	-314.08 ppb	08:40:53
1	Si 251.611†	398.1	-0.4	0.3024 ug/L	0.3024 ppb	08:40:53
1	Sn 189.927†	-279.3	-376.2	-30.878 ug/L	-30.878 ppb	08:40:53
1	Ti 334.940†	-12715.7	-16087.7	-7.6605 ug/L	-7.6605 ppb	08:40:33
1	Tl 190.801†	-52.8	-47.2	-23.657 ug/L	-23.657 ppb	08:40:53
1	U 409.014†	16.2	1204.0	17.675 ug/L	17.675 ppb	08:40:33
1	V 292.402†	507.6	1847.9	0.5218 ug/L	0.5218 ppb	08:40:53
1	Zn 213.857†	2156.3	2417.6	10.061 ug/L	10.061 ppb	08:40:53
1	SiO2†	411.4	6.0	1.3054 ug/L	1.3054 ppb	08:41:49
2	Sc Radial	3096.1	3096.1	93.4 %		08:40:01
2	Y RADIAL	3117.5	3117.5	93.77 %		08:40:01
2	Al 396.153Radial†	424099.7	454143.8	561310 ug/L	561310 ppb	08:39:41
2	Ca 317.933Radial†	147436.9	157839.5	497940 ug/L	497940 ppb	08:39:41
2	Fe 238.204 Radial†	6298.9	6737.5	182920 ug/L	182920 ppb	08:40:01
2	K 766.490 Radial†	1964.4	-441.3	-220.23 ug/L	-220.23 ppb	08:39:41
2	Mg 279.077 IEC†	5915.0	6332.0	494120 ug/L	494120 ppb	08:40:01
2	Na 589.592 Radial†	-485.3	183.1	39.148 ug/L	39.148 ppb	08:40:01
2	Sr 421.552†	1312.4	1388.7	8.5453 ug/L	8.5453 ppb	08:40:01
2	Sc 361.383	505065.8	505065.8	75.139 %		08:40:58
2	Y 371.029	446348.2	446348.2	78.252 %		08:40:58
2	Ag 328.068†	-7247.9	-9760.6	-7.8461 ug/L	-7.8461 ppb	08:41:18
2	As 188.979†	-62.6	-70.4	-8.0011 ug/L	-8.0011 ppb	08:41:18
2	B 249.677†	721.2	912.2	-0.1028 ug/L	-0.1028 ppb	08:40:58
2	Ba 233.527†	-367.7	-499.6	-0.2799 ug/L	-0.2799 ppb	08:41:18
2	Be 313.107†	-4156.2	-1219.3	-0.7056 ug/L	-0.7056 ppb	08:40:58
2	Cd 226.502†	972.3	1436.6	9.3116 ug/L	9.3116 ppb	08:41:18
2	Co 228.616†	17.8	56.1	-0.7624 ug/L	-0.7624 ppb	08:41:18
2	Cr 267.716†	-1347.6	-1849.9	-12.685 ug/L	-12.685 ppb	08:41:18
2	Cu 324.752†	2462.1	-1249.7	5.1262 ug/L	5.1262 ppb	08:41:18
2	Mn 257.610†	-1243.7	-2184.0	-5.6946 ug/L	-5.6946 ppb	08:40:58
2	Mo 202.031†	-150.9	-210.6	-4.3373 ug/L	-4.3373 ppb	08:41:18
2	Ni 231.604†	159.5	138.9	5.8310 ug/L	5.8310 ppb	08:41:18

2	P 214.914†	120.5	12.4	4.6577 ug/L	4.6577 ppb	08:41:18
2	Pb 220.353†	-447.5	-551.5	14.663 ug/L	14.663 ppb	08:41:18
2	S 181.975 Axial†	35.7	26.2	-44.575 ug/L	-44.575 ppb	08:41:18
2	Sb 206.836†	53.0	50.8	6.5925 ug/L	6.5925 ppb	08:41:18
2	Se 196.026†	-641.9	-843.0	-305.85 ug/L	-305.85 ppb	08:41:18
2	Si 251.611†	397.5	0.6	0.3264 ug/L	0.3264 ppb	08:41:18
2	Sn 189.927†	-289.3	-390.7	-32.836 ug/L	-32.836 ppb	08:41:18
2	Ti 334.940†	-12732.5	-16162.4	-5.8308 ug/L	-5.8308 ppb	08:40:58
2	Tl 190.801†	-50.9	-44.9	-22.504 ug/L	-22.504 ppb	08:41:18
2	U 409.014†	-81.6	1073.9	13.551 ug/L	13.551 ppb	08:40:58
2	V 292.402†	434.8	1753.1	-0.3483 ug/L	-0.3483 ppb	08:41:18
2	Zn 213.857†	2174.4	2450.5	10.617 ug/L	10.617 ppb	08:41:18
2	SiO2†	446.5	54.5	6.0721 ug/L	6.0721 ppb	08:41:54
3	Sc Radial	3094.3	3094.3	93.3 %		08:40:26
3	Y RADIAL	3123.0	3123.0	93.94 %		08:40:26
3	Al 396.153Radial†	413639.5	443209.6	547800 ug/L	547800 ppb	08:40:06
3	Ca 317.933Radial†	144273.8	154545.2	487550 ug/L	487550 ppb	08:40:06
3	Fe 238.204 Radial†	6339.5	6784.9	184210 ug/L	184210 ppb	08:40:26
3	K 766.490 Radial†	2152.6	-238.4	-192.07 ug/L	-192.07 ppb	08:40:06
3	Mg 279.077 IEC†	5930.4	6352.3	495710 ug/L	495710 ppb	08:40:26
3	Na 589.592 Radial†	-485.1	183.0	39.133 ug/L	39.133 ppb	08:40:26
3	Sr 421.552†	1317.3	1394.8	8.6772 ug/L	8.6772 ppb	08:40:26
3	Sc 361.383	505492.2	505492.2	75.202 %		08:41:23
3	Y 371.029	447241.4	447241.4	78.408 %		08:41:23
3	Ag 328.068†	-7163.0	-9639.5	-6.5965 ug/L	-6.5965 ppb	08:41:44
3	As 188.979†	-60.6	-67.7	-5.7165 ug/L	-5.7165 ppb	08:41:44
3	B 249.677†	582.3	726.7	-6.3311 ug/L	-6.3311 ppb	08:41:23
3	Ba 233.527†	-380.8	-516.6	-0.4424 ug/L	-0.4424 ppb	08:41:44
3	Be 313.107†	-4137.5	-1189.8	-0.6902 ug/L	-0.6902 ppb	08:41:23
3	Cd 226.502†	938.4	1390.4	8.2712 ug/L	8.2712 ppb	08:41:44
3	Co 228.616†	25.0	65.6	-0.4682 ug/L	-0.4682 ppb	08:41:44
3	Cr 267.716†	-1357.3	-1861.2	-12.746 ug/L	-12.746 ppb	08:41:44
3	Cu 324.752†	2319.2	-1442.6	4.4919 ug/L	4.4919 ppb	08:41:44
3	Mn 257.610†	-1126.9	-2027.2	-5.3773 ug/L	-5.3773 ppb	08:41:23
3	Mo 202.031†	-162.8	-226.3	-6.1826 ug/L	-6.1826 ppb	08:41:44
3	Ni 231.604†	131.1	101.0	4.2393 ug/L	4.2393 ppb	08:41:44
3	P 214.914†	128.7	23.2	11.108 ug/L	11.108 ppb	08:41:44
3	Pb 220.353†	-472.8	-584.6	4.0517 ug/L	4.0517 ppb	08:41:44
3	S 181.975 Axial†	13.2	-3.8	-111.52 ug/L	-111.52 ppb	08:41:44
3	Sb 206.836†	41.2	35.1	-1.0930 ug/L	-1.0930 ppb	08:41:44
3	Se 196.026†	-649.6	-852.5	-316.89 ug/L	-316.89 ppb	08:41:44
3	Si 251.611†	399.6	2.8	0.4527 ug/L	0.4527 ppb	08:41:44
3	Sn 189.927†	-282.4	-381.2	-31.702 ug/L	-31.702 ppb	08:41:44
3	Ti 334.940†	-12717.5	-16128.1	-7.2873 ug/L	-7.2873 ppb	08:41:23
3	Tl 190.801†	-66.5	-65.5	-32.700 ug/L	-32.700 ppb	08:41:44
3	U 409.014†	15.5	1203.1	17.533 ug/L	17.533 ppb	08:41:23
3	V 292.402†	391.0	1694.3	-1.0927 ug/L	-1.0927 ppb	08:41:44
3	Zn 213.857†	2152.9	2419.4	9.9535 ug/L	9.9535 ppb	08:41:44
3	SiO2†	386.0	-26.4	-1.9074 ug/L	-1.9074 ppb	08:41:59

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	505729.9	75.238 %		0.1204			0.16%
Sc Radial	3108.5	93.8 %		0.70			0.74%
Y 371.029	447111.4	78.385 %		0.1240			0.16%
Y RADIAL	3134.1	94.27 %		0.727			0.77%
Ag 328.068†	-9726.0	-7.3658 ug/L		0.67304	-7.3658 ppb	0.67304	9.14%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	446388.2	551730 ug/L		8346.3	551730 ppb	8346.3	1.51%
QC value within limits for Al 396.153Radial Recovery = 110.35%							
As 188.979†	-67.2	-5.5630 ug/L		2.51842	-5.5630 ppb	2.51842	45.27%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	798.7	-3.8725 ug/L		3.31470	-3.8725 ppb	3.31470	85.60%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-520.9	-0.5149 ug/L		0.27838	-0.5149 ppb	0.27838	54.06%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-1233.5	-0.7128 ug/L		0.02692	-0.7128 ppb	0.02692	3.78%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	155218.1	489670 ug/L		7439.1	489670 ppb	7439.1	1.52%

QC value within limits for Ca 317.933 Radial Recovery = 97.93%

Cd 226.502† 1402.0 8.5767 ug/L 0.63947 8.5767 ppb 0.63947 7.46%

QC value within limits for Cd 226.502 Recovery = Not calculated

Co 228.616† 65.3 -0.4662 ug/L 0.29734 -0.4662 ppb 0.29734 63.79%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716† -1863.4 -12.864 ug/L 0.2585 -12.864 ppb 0.2585 2.01%

QC value less than the lower limit for Cr 267.716 Recovery = Not calculated

Cu 324.752† -1334.5 4.8450 ug/L 0.32323 4.8450 ppb 0.32323 6.67%

QC value within limits for Cu 324.752 Recovery = Not calculated

Fe 238.204 Radial† 6757.1 183450 ug/L 671.9 183450 ppb 671.9 0.37%

QC value within limits for Fe 238.204 Radial Recovery = 91.73%

K 766.490 Radial† -322.1 -202.96 ug/L 15.126 -202.96 ppb 15.126 7.45%

QC value within limits for K 766.490 Radial Recovery = Not calculated

Mg 279.077 IEC† 6341.1 494830 ug/L 805.1 494830 ppb 805.1 0.16%

QC value within limits for Mg 279.077 IEC Recovery = 98.97%

Mn 257.610† -2098.2 -5.5313 ug/L 0.15885 -5.5313 ppb 0.15885 2.87%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031† -220.0 -5.4819 ug/L 0.99950 -5.4819 ppb 0.99950 18.23%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592 Radial† 184.2 39.389 ug/L 0.4295 39.389 ppb 0.4295 1.09%

QC value within limits for Na 589.592 Radial Recovery = Not calculated

Ni 231.604† 124.3 5.2145 ug/L 0.85430 5.2145 ppb 0.85430 16.38%

QC value within limits for Ni 231.604 Recovery = Not calculated

P 214.914† 22.0 11.410 ug/L 6.9079 11.410 ppb 6.9079 60.54%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353† -563.3 9.6047 ug/L 5.32298 9.6047 ppb 5.32298 55.42%

QC value within limits for Pb 220.353 Recovery = Not calculated

S 181.975 Axial† 9.4 -81.651 ug/L 34.0488 -81.651 ppb 34.0488 41.70%

QC value within limits for S 181.975 Axial Recovery = Not calculated

Sb 206.836† 42.0 2.3623 ug/L 3.90089 2.3623 ppb 3.90089 165.13%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026† -847.6 -312.27 ug/L 5.740 -312.27 ppb 5.740 1.84%

QC value less than the lower limit for Se 196.026 Recovery = Not calculated

Si 251.611† 1.0 0.3605 ug/L 0.08070 0.3605 ppb 0.08070 22.39%

QC value within limits for Si 251.611 Recovery = Not calculated

Sn 189.927† -382.7 -31.806 ug/L 0.9831 -31.806 ppb 0.9831 3.09%

QC value less than the lower limit for Sn 189.927 Recovery = Not calculated

Sr 421.552† 1395.7 8.6688 ug/L 0.11962 8.6688 ppb 0.11962 1.38%

QC value within limits for Sr 421.552 Recovery = Not calculated

Ti 334.940† -16126.1 -6.9262 ug/L 0.96684 -6.9262 ppb 0.96684 13.96%

QC value within limits for Ti 334.940 Recovery = Not calculated

Tl 190.801† -52.6 -26.287 ug/L 5.5836 -26.287 ppb 5.5836 21.24%

QC value within limits for Tl 190.801 Recovery = Not calculated

U 409.014† 1160.3 16.253 ug/L 2.3414 16.253 ppb 2.3414 14.41%

QC value within limits for U 409.014 Recovery = Not calculated

V 292.402† 1765.1 -0.3064 ug/L 0.80807 -0.3064 ppb 0.80807 263.75%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857† 2429.2 10.211 ug/L 0.3561 10.211 ppb 0.3561 3.49%

QC value within limits for Zn 213.857 Recovery = Not calculated

SiO2† 11.4 1.8234 ug/L 4.01487 1.8234 ppb 4.01487 220.19%

QC value within limits for SiO2 Recovery = Not calculated

QC Failed. Continue with analysis.

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

Autosampler Location: 14
 Date Collected: 4/5/2010 08:44:11
 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	3069.8	3069.8	92.6 %		08:46:23
1	Y RADIAL	3084.2	3084.2	92.77 %		08:46:23
1	Al 396.153Radial†	378988.0	409332.1	505900 ug/L	505900 ppb	08:46:03
1	Ca 317.933Radial†	131471.0	141955.3	447830 ug/L	447830 ppb	08:46:03
1	Fe 238.204 Radial†	6393.5	6897.6	187280 ug/L	187280 ppb	08:46:23
1	K 766.490 Radial†	56276.4	58224.9	6928.6 ug/L	6928.6 ppb	08:46:03
1	Mg 279.077 IEC†	5963.3	6438.6	502440 ug/L	502440 ppb	08:46:23
1	Na 589.592 Radial†	25292.8	28014.8	5990.1 ug/L	5990.1 ppb	08:46:03
1	Sr 421.552†	48668.6	52537.8	460.62 ug/L	460.62 ppb	08:46:03
1	Sc 361.383	590018.4	590018.4	87.777 %		08:47:21
1	Y 371.029	493176.7	493176.7	86.461 %		08:47:21
1	Ag 328.068†	34483.3	39170.4	285.07 ug/L	285.07 ppb	08:47:21
1	As 188.979†	624.8	724.7	568.02 ug/L	568.02 ppb	08:47:41
1	B 249.677†	14815.0	16830.2	514.53 ug/L	514.53 ppb	08:47:21
1	Ba 233.527†	37728.5	42971.9	512.91 ug/L	512.91 ppb	08:47:21
1	Be 313.107†	425182.7	488699.4	254.59 ug/L	254.59 ppb	08:47:21
1	Cd 226.502†	23327.3	26718.1	505.44 ug/L	505.44 ppb	08:47:41
1	Co 228.616†	12441.1	14205.8	468.21 ug/L	468.21 ppb	08:47:41
1	Cr 267.716†	24436.4	27782.7	502.10 ug/L	502.10 ppb	08:47:21
1	Cu 324.752†	137972.9	152658.5	563.80 ug/L	563.80 ppb	08:47:21
1	Mn 257.610†	266449.5	303022.6	490.43 ug/L	490.43 ppb	08:47:21
1	Mo 202.031†	3766.9	4281.6	517.21 ug/L	517.21 ppb	08:47:41
1	Ni 231.604†	10187.0	11532.2	483.81 ug/L	483.81 ppb	08:47:41
1	P 214.914†	2526.2	2730.0	2575.6 ug/L	2575.6 ppb	08:47:41
1	Pb 220.353†	1594.8	1861.0	506.01 ug/L	506.01 ppb	08:47:41
1	S 181.975 Axial†	1092.6	1223.4	2737.1 ug/L	2737.1 ppb	08:47:41
1	Sb 206.836†	983.3	1100.5	565.14 ug/L	565.14 ppb	08:47:41
1	Se 196.026†	1520.0	1743.1	2597.8 ug/L	2597.8 ppb	08:47:41
1	Si 251.611†	103683.7	117592.6	5414.7 ug/L	5414.7 ppb	08:47:21
1	Sn 189.927†	1179.8	1338.4	499.26 ug/L	499.26 ppb	08:47:41
1	Ti 334.940†	214793.0	245484.8	508.28 ug/L	508.28 ppb	08:47:21
1	Tl 190.801†	788.7	921.4	458.44 ug/L	458.44 ppb	08:47:41
1	U 409.014†	13535.6	16602.9	508.35 ug/L	508.35 ppb	08:47:21
1	V 292.402†	48004.1	55862.9	530.83 ug/L	530.83 ppb	08:47:21
1	Zn 213.857†	31759.9	35738.9	522.66 ug/L	522.66 ppb	08:47:21
1	SiO2†	107524.5	121957.0	12082 ug/L	12082 ppb	08:48:38
2	Sc Radial	3078.3	3078.3	92.9 %		08:46:49
2	Y RADIAL	3086.9	3086.9	92.85 %		08:46:49
2	Al 396.153Radial†	409410.0	440957.2	544990 ug/L	544990 ppb	08:46:29
2	Ca 317.933Radial†	143778.0	154814.4	488400 ug/L	488400 ppb	08:46:29
2	Fe 238.204 Radial†	6408.3	6894.4	187190 ug/L	187190 ppb	08:46:49
2	K 766.490 Radial†	60059.1	62129.8	7389.8 ug/L	7389.8 ppb	08:46:29
2	Mg 279.077 IEC†	5981.4	6440.2	502570 ug/L	502570 ppb	08:46:49
2	Na 589.592 Radial†	27130.8	29918.4	6397.2 ug/L	6397.2 ppb	08:46:29
2	Sr 421.552†	52564.1	56586.9	496.07 ug/L	496.07 ppb	08:46:29
2	Sc 361.383	587051.0	587051.0	87.336 %		08:47:47
2	Y 371.029	489401.9	489401.9	85.800 %		08:47:47
2	Ag 328.068†	34202.4	39047.4	283.78 ug/L	283.78 ppb	08:47:47
2	As 188.979†	629.1	733.3	574.18 ug/L	574.18 ppb	08:48:07
2	B 249.677†	14823.2	16924.9	517.61 ug/L	517.61 ppb	08:47:47
2	Ba 233.527†	37724.2	43184.2	515.42 ug/L	515.42 ppb	08:47:47
2	Be 313.107†	426088.9	492185.4	256.40 ug/L	256.40 ppb	08:47:47
2	Cd 226.502†	23474.8	27021.3	511.40 ug/L	511.40 ppb	08:48:07
2	Co 228.616†	12440.0	14276.3	470.54 ug/L	470.54 ppb	08:48:07
2	Cr 267.716†	24366.8	27843.7	503.16 ug/L	503.16 ppb	08:47:47
2	Cu 324.752†	136652.2	151940.8	561.20 ug/L	561.20 ppb	08:47:47
2	Mn 257.610†	267390.8	305634.7	494.66 ug/L	494.66 ppb	08:47:47
2	Mo 202.031†	3734.1	4265.8	515.85 ug/L	515.85 ppb	08:48:07
2	Ni 231.604†	10214.8	11622.6	487.60 ug/L	487.60 ppb	08:48:07

2	P 214.914†	2547.4	2768.8	2624.5 ug/L	2624.5 ppb	08:48:07
2	Pb 220.353†	1593.7	1868.9	518.06 ug/L	518.06 ppb	08:48:07
2	S 181.975 Axial†	1117.5	1258.2	2810.3 ug/L	2810.3 ppb	08:48:07
2	Sb 206.836†	995.5	1120.1	574.31 ug/L	574.31 ppb	08:48:07
2	Se 196.026†	1549.4	1785.4	2655.9 ug/L	2655.9 ppb	08:48:07
2	Si 251.611†	103573.4	118063.5	5436.4 ug/L	5436.4 ppb	08:47:47
2	Sn 189.927†	1207.3	1376.7	518.43 ug/L	518.43 ppb	08:48:07
2	Ti 334.940†	214204.8	246048.2	514.84 ug/L	514.84 ppb	08:47:47
2	Tl 190.801†	769.7	904.2	449.97 ug/L	449.97 ppb	08:48:07
2	U 409.014†	13287.4	16396.5	501.76 ug/L	501.76 ppb	08:47:47
2	V 292.402†	48005.6	56141.0	533.50 ug/L	533.50 ppb	08:47:47
2	Zn 213.857†	31754.6	35915.8	525.40 ug/L	525.40 ppb	08:47:47
2	SiO2†	103642.6	118131.4	11703 ug/L	11703 ppb	08:48:43
3	Sc Radial	3099.8	3099.8	93.5 %		08:47:14
3	Y RADIAL	3107.8	3107.8	93.48 %		08:47:14
3	Al 396.153Radial†	411231.4	439846.8	543620 ug/L	543620 ppb	08:46:54
3	Ca 317.933Radial†	144935.4	154978.0	488920 ug/L	488920 ppb	08:46:54
3	Fe 238.204 Radial†	6443.0	6883.5	186900 ug/L	186900 ppb	08:47:14
3	K 766.490 Radial†	60202.7	61834.7	7353.8 ug/L	7353.8 ppb	08:46:54
3	Mg 279.077 IEC†	6048.1	6466.8	504650 ug/L	504650 ppb	08:47:14
3	Na 589.592 Radial†	27070.2	29650.9	6340.0 ug/L	6340.0 ppb	08:46:54
3	Sr 421.552†	52589.0	56220.9	492.84 ug/L	492.84 ppb	08:46:54
3	Sc 361.383	590120.3	590120.3	87.793 %		08:48:12
3	Y 371.029	492235.1	492235.1	86.296 %		08:48:12
3	Ag 328.068†	34408.2	39078.1	283.85 ug/L	283.85 ppb	08:48:12
3	As 188.979†	625.6	725.5	568.54 ug/L	568.54 ppb	08:48:32
3	B 249.677†	15096.9	17148.4	524.91 ug/L	524.91 ppb	08:48:12
3	Ba 233.527†	37803.4	43049.8	513.82 ug/L	513.82 ppb	08:48:12
3	Be 313.107†	431567.2	495888.0	258.32 ug/L	258.32 ppb	08:48:12
3	Cd 226.502†	23707.6	27146.6	513.89 ug/L	513.89 ppb	08:48:32
3	Co 228.616†	12561.4	14340.4	472.67 ug/L	472.67 ppb	08:48:32
3	Cr 267.716†	24438.5	27780.3	502.02 ug/L	502.02 ppb	08:48:12
3	Cu 324.752†	139070.9	153882.0	568.23 ug/L	568.23 ppb	08:48:12
3	Mn 257.610†	268993.0	305867.3	494.92 ug/L	494.92 ppb	08:48:12
3	Mo 202.031†	3752.9	4264.9	515.72 ug/L	515.72 ppb	08:48:32
3	Ni 231.604†	10332.5	11695.9	490.68 ug/L	490.68 ppb	08:48:32
3	P 214.914†	2605.9	2820.3	2674.0 ug/L	2674.0 ppb	08:48:32
3	Pb 220.353†	1599.1	1865.5	517.03 ug/L	517.03 ppb	08:48:32
3	S 181.975 Axial†	1136.0	1272.6	2843.8 ug/L	2843.8 ppb	08:48:32
3	Sb 206.836†	1003.8	1123.7	576.06 ug/L	576.06 ppb	08:48:32
3	Se 196.026†	1611.4	1846.8	2723.8 ug/L	2723.8 ppb	08:48:32
3	Si 251.611†	105113.4	119200.8	5488.9 ug/L	5488.9 ppb	08:48:12
3	Sn 189.927†	1194.6	1355.0	511.74 ug/L	511.74 ppb	08:48:32
3	Ti 334.940†	215744.6	246526.5	515.69 ug/L	515.69 ppb	08:48:12
3	Tl 190.801†	793.4	926.6	461.05 ug/L	461.05 ppb	08:48:32
3	U 409.014†	13499.9	16559.5	507.01 ug/L	507.01 ppb	08:48:12
3	V 292.402†	48149.5	56019.0	532.41 ug/L	532.41 ppb	08:48:12
3	Zn 213.857†	32102.6	36123.1	528.63 ug/L	528.63 ppb	08:48:12
3	SiO2†	103282.3	117103.8	11601 ug/L	11601 ppb	08:48:48

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	589063.3	87.635 %	0.2594			0.30%
Sc Radial	3082.6	93.0 %	0.47			0.50%
Y 371.029	491604.6	86.186 %	0.3445			0.40%
Y RADIAL	3093.0	93.03 %	0.388			0.42%
Ag 328.068†	39098.7	284.24 ug/L	0.724	284.24 ppb	0.724	0.25%
QC value within limits for Ag 328.068 Recovery = 113.69%						
Al 396.153Radial†	430045.4	531500 ug/L	22181.9	531500 ppb	22181.9	4.17%
QC value within limits for Al 396.153Radial Recovery = 106.30%						
As 188.979†	727.9	570.25 ug/L	3.413	570.25 ppb	3.413	0.60%
QC value within limits for As 188.979 Recovery = 114.05%						
B 249.677†	16967.9	519.02 ug/L	5.330	519.02 ppb	5.330	1.03%
QC value within limits for B 249.677 Recovery = 103.80%						
Ba 233.527†	43068.6	514.05 ug/L	1.267	514.05 ppb	1.267	0.25%
QC value within limits for Ba 233.527 Recovery = 102.81%						
Be 313.107†	492257.6	256.43 ug/L	1.867	256.43 ppb	1.867	0.73%
QC value within limits for Be 313.107 Recovery = 102.57%						
Ca 317.933Radial†	150582.6	475050 ug/L	23571.9	475050 ppb	23571.9	4.96%

QC value within limits for Ca 317.933 Radial Recovery = 95.01%

Cd 226.502†	26962.0	510.24 ug/L	4.344	510.24 ppb	4.344	0.85%
QC value within limits for Cd 226.502 Recovery = 102.05%						
Co 228.616†	14274.2	470.47 ug/L	2.229	470.47 ppb	2.229	0.47%
QC value within limits for Co 228.616 Recovery = 94.09%						
Cr 267.716†	27802.3	502.43 ug/L	0.633	502.43 ppb	0.633	0.13%
QC value within limits for Cr 267.716 Recovery = 100.49%						
Cu 324.752†	152827.1	564.41 ug/L	3.553	564.41 ppb	3.553	0.63%
QC value within limits for Cu 324.752 Recovery = 112.88%						
Fe 238.204 Radial†	6891.8	187120 ug/L	199.8	187120 ppb	199.8	0.11%
QC value within limits for Fe 238.204 Radial Recovery = 93.56%						
K 766.490 Radial†	60729.8	7224.1 ug/L	256.50	7224.1 ppb	256.50	3.55%
QC value greater than the upper limit for K 766.490 Radial Recovery = 144.48%						
Mg 279.077 IEC†	6448.6	503220 ug/L	1237.1	503220 ppb	1237.1	0.25%
QC value within limits for Mg 279.077 IEC Recovery = 100.64%						
Mn 257.610†	304841.5	493.34 ug/L	2.523	493.34 ppb	2.523	0.51%
QC value within limits for Mn 257.610 Recovery = 98.67%						
Mo 202.031†	4270.8	516.26 ug/L	0.824	516.26 ppb	0.824	0.16%
QC value within limits for Mo 202.031 Recovery = 103.25%						
Na 589.592 Radial†	29194.7	6242.4 ug/L	220.35	6242.4 ppb	220.35	3.53%
QC value greater than the upper limit for Na 589.592 Radial Recovery = 124.85%						
Ni 231.604†	11616.9	487.36 ug/L	3.441	487.36 ppb	3.441	0.71%
QC value within limits for Ni 231.604 Recovery = 97.47%						
P 214.914†	2773.0	2624.7 ug/L	49.23	2624.7 ppb	49.23	1.88%
QC value within limits for P 214.914 Recovery = 104.99%						
Pb 220.353†	1865.2	513.70 ug/L	6.682	513.70 ppb	6.682	1.30%
QC value within limits for Pb 220.353 Recovery = 102.74%						
S 181.975 Axial†	1251.4	2797.1 ug/L	54.57	2797.1 ppb	54.57	1.95%
QC value within limits for S 181.975 Axial Recovery = 111.88%						
Sb 206.836†	1114.8	571.84 ug/L	5.864	571.84 ppb	5.864	1.03%
QC value within limits for Sb 206.836 Recovery = 114.37%						
Se 196.026†	1791.8	2659.2 ug/L	63.08	2659.2 ppb	63.08	2.37%
QC value within limits for Se 196.026 Recovery = 106.37%						
Si 251.611†	118285.6	5446.7 ug/L	38.12	5446.7 ppb	38.12	0.70%
QC value within limits for Si 251.611 Recovery = 108.93%						
Sn 189.927†	1356.7	509.81 ug/L	9.730	509.81 ppb	9.730	1.91%
QC value within limits for Sn 189.927 Recovery = 101.96%						
Sr 421.552†	55115.2	483.18 ug/L	19.603	483.18 ppb	19.603	4.06%
QC value within limits for Sr 421.552 Recovery = 96.64%						
Ti 334.940†	246019.9	512.93 ug/L	4.054	512.93 ppb	4.054	0.79%
QC value within limits for Ti 334.940 Recovery = 102.59%						
Tl 190.801†	917.4	456.49 ug/L	5.794	456.49 ppb	5.794	1.27%
QC value within limits for Tl 190.801 Recovery = 91.30%						
U 409.014†	16519.7	505.71 ug/L	3.482	505.71 ppb	3.482	0.69%
QC value within limits for U 409.014 Recovery = 101.14%						
V 292.402†	56007.6	532.25 ug/L	1.342	532.25 ppb	1.342	0.25%
QC value within limits for V 292.402 Recovery = 106.45%						
Zn 213.857†	35926.0	525.56 ug/L	2.987	525.56 ppb	2.987	0.57%
QC value within limits for Zn 213.857 Recovery = 105.11%						
SiO2†	119064.1	11795 ug/L	253.6	11795 ppb	253.6	2.15%
QC value within limits for SiO2 Recovery = 110.29%						

QC Failed. Continue with analysis.

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

Autosampler Location: 15
 Date Collected: 4/5/2010 08:50:59
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: LR1

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3019.3	3019.3	91.1 %		08:53:17
1	Y RADIAL	3061.9	3061.9	92.10 %		08:53:17
1	Al 396.153Radial†	408200.3	448250.5	554030 ug/L	554030 ppb	08:52:52
1	Ca 317.933Radial†	142920.9	156901.0	494980 ug/L	494980 ppb	08:52:57
1	Fe 238.204 Radial†	14448.3	15856.5	430490 ug/L	430490 ppb	08:53:17
1	K 766.490 Radial†	3883.5	1719.2	-153.79 ug/L	-153.79 ppb	08:52:57
1	Mg 279.077 IEC†	5755.1	6317.7	492740 ug/L	492740 ppb	08:53:17
1	Na 589.592 Radial†	2154718.0	2366372.4	505980 ug/L	505980 ppb	08:52:52
1	Sr 421.552†	1287.3	1397.0	8.6406 ug/L	8.6406 ppb	08:53:17
1	Sc 361.383	597095.3	597095.3	88.830 %		08:54:26
1	Y 371.029	500356.6	500356.6	87.720 %		08:54:26
1	Ag 328.068†	-17471.7	-19783.2	-2.3198 ug/L	-2.3198 ppb	08:54:26
1	As 188.979†	-132.3	-136.0	2.9392 ug/L	2.9392 ppb	08:54:46
1	B 249.677†	1668.2	1830.4	-10.520 ug/L	-10.520 ppb	08:54:26
1	Ba 233.527†	-1166.5	-1323.4	-2.4328 ug/L	-2.4328 ppb	08:54:46
1	Be 313.107†	-9673.7	-6578.1	-3.4693 ug/L	-3.4693 ppb	08:54:26
1	Cd 226.502†	2480.2	2934.6	15.971 ug/L	15.971 ppb	08:54:46
1	Co 228.616†	173.2	227.4	1.2735 ug/L	1.2735 ppb	08:54:46
1	Cr 267.716†	-1169.2	-1372.6	16.066 ug/L	16.066 ppb	08:54:46
1	Cu 324.752†	498.0	-3965.8	0.3186 ug/L	0.3186 ppb	08:54:26
1	Mn 257.610†	-18358.1	-21195.3	-12.095 ug/L	-12.095 ppb	08:54:26
1	Mo 202.031†	-316.4	-366.0	-3.2070 ug/L	-3.2070 ppb	08:54:46
1	Ni 231.604†	203.3	155.5	6.5238 ug/L	6.5238 ppb	08:54:46
1	P 214.914†	410.6	314.2	104.82 ug/L	104.82 ppb	08:54:46
1	Pb 220.353†	-315.6	-311.2	39.039 ug/L	39.039 ppb	08:54:46
1	S 181.975 Axial†	37.1	20.4	-56.557 ug/L	-56.557 ppb	08:54:46
1	Sb 206.836†	47.6	33.8	-4.7335 ug/L	-4.7335 ppb	08:54:46
1	Se 196.026†	-1511.2	-1689.8	-601.49 ug/L	-601.49 ppb	08:54:46
1	Si 251.611†	-246.8	-806.3	-36.647 ug/L	-36.647 ppb	08:54:46
1	Sn 189.927†	-290.7	-332.9	-13.736 ug/L	-13.736 ppb	08:54:46
1	Ti 334.940†	-11970.6	-12692.8	-5.6054 ug/L	-5.6054 ppb	08:54:26
1	Tl 190.801†	-77.6	-64.5	-32.332 ug/L	-32.332 ppb	08:54:46
1	U 409.014†	404023.4	456008.8	14529 ug/L	14529 ppb	08:54:26
1	V 292.402†	1187.0	2510.6	-1.5218 ug/L	-1.5218 ppb	08:54:46
1	Zn 213.857†	3947.2	4000.2	-2.3784 ug/L	-2.3784 ppb	08:54:46
1	SiO2†	-391.4	-980.3	-96.072 ug/L	-96.072 ppb	08:55:43
2	Sc Radial	2971.0	2971.0	89.6 %		08:53:48
2	Y RADIAL	3027.4	3027.4	91.06 %		08:53:48
2	Al 396.153Radial†	407555.1	454804.1	562130 ug/L	562130 ppb	08:53:23
2	Ca 317.933Radial†	141739.0	158129.0	498860 ug/L	498860 ppb	08:53:28
2	Fe 238.204 Radial†	14240.6	15882.1	431190 ug/L	431190 ppb	08:53:48
2	K 766.490 Radial†	3765.3	1656.5	-164.46 ug/L	-164.46 ppb	08:53:28
2	Mg 279.077 IEC†	5696.4	6354.8	495640 ug/L	495640 ppb	08:53:48
2	Na 589.592 Radial†	2139228.5	2387484.2	510490 ug/L	510490 ppb	08:53:23
2	Sr 421.552†	1275.9	1407.2	8.7018 ug/L	8.7018 ppb	08:53:48
2	Sc 361.383	597192.4	597192.4	88.845 %		08:54:52
2	Y 371.029	501487.0	501487.0	87.918 %		08:54:52
2	Ag 328.068†	-17294.8	-19580.8	-1.0222 ug/L	-1.0222 ppb	08:54:52
2	As 188.979†	-125.4	-128.2	8.6910 ug/L	8.6910 ppb	08:55:12
2	B 249.677†	1512.9	1655.2	-16.318 ug/L	-16.318 ppb	08:54:52
2	Ba 233.527†	-1135.8	-1288.6	-2.0041 ug/L	-2.0041 ppb	08:55:12
2	Be 313.107†	-9812.0	-6731.9	-3.5503 ug/L	-3.5503 ppb	08:54:52
2	Cd 226.502†	2441.4	2890.5	15.046 ug/L	15.046 ppb	08:55:12
2	Co 228.616†	159.8	212.3	0.7618 ug/L	0.7618 ppb	08:55:12
2	Cr 267.716†	-1150.1	-1350.8	16.487 ug/L	16.487 ppb	08:55:12
2	Cu 324.752†	650.5	-3794.3	0.9397 ug/L	0.9397 ppb	08:54:52
2	Mn 257.610†	-18582.7	-21444.7	-12.550 ug/L	-12.550 ppb	08:54:52
2	Mo 202.031†	-326.5	-377.4	-4.4255 ug/L	-4.4255 ppb	08:55:12
2	Ni 231.604†	186.5	136.6	5.7299 ug/L	5.7299 ppb	08:55:12

2	P 214.914†	405.8	308.7	100.69 ug/L	100.69 ppb	08:55:12
2	Pb 220.353†	-295.1	-288.0	45.915 ug/L	45.915 ppb	08:55:12
2	S 181.975 Axial†	50.7	35.8	-22.578 ug/L	-22.578 ppb	08:55:12
2	Sb 206.836†	29.9	13.9	-15.197 ug/L	-15.197 ppb	08:55:12
2	Se 196.026†	-1529.5	-1710.2	-620.26 ug/L	-620.26 ppb	08:55:12
2	Si 251.611†	-281.8	-845.7	-38.448 ug/L	-38.448 ppb	08:55:12
2	Sn 189.927†	-293.5	-336.0	-14.028 ug/L	-14.028 ppb	08:55:12
2	Ti 334.940†	-12203.7	-12953.1	-5.8721 ug/L	-5.8721 ppb	08:54:52
2	Tl 190.801†	-76.5	-63.2	-31.681 ug/L	-31.681 ppb	08:55:12
2	U 409.014†	406020.7	458183.0	14599 ug/L	14599 ppb	08:54:52
2	V 292.402†	1096.6	2408.7	-2.4394 ug/L	-2.4394 ppb	08:55:12
2	Zn 213.857†	3930.2	3980.3	-2.7872 ug/L	-2.7872 ppb	08:55:12
2	SiO2†	-289.0	-865.0	-84.598 ug/L	-84.598 ppb	08:55:48
3	Sc Radial	2959.3	2959.3	89.3 %		08:54:19
3	Y RADIAL	2993.3	2993.3	90.03 %		08:54:19
3	Al 396.153Radial†	399803.7	447920.6	553620 ug/L	553620 ppb	08:53:54
3	Ca 317.933Radial†	139500.5	156247.2	492920 ug/L	492920 ppb	08:53:59
3	Fe 238.204 Radial†	14127.5	15818.3	429450 ug/L	429450 ppb	08:54:19
3	K 766.490 Radial†	3779.1	1688.6	-153.48 ug/L	-153.48 ppb	08:53:59
3	Mg 279.077 IEC†	5647.5	6325.2	493330 ug/L	493330 ppb	08:54:19
3	Na 589.592 Radial†	2076156.7	2326278.8	497410 ug/L	497410 ppb	08:53:54
3	Sr 421.552†	1264.9	1400.5	8.6869 ug/L	8.6869 ppb	08:54:19
3	Sc 361.383	592112.4	592112.4	88.089 %		08:55:18
3	Y 371.029	497064.8	497064.8	87.143 %		08:55:18
3	Ag 328.068†	-17379.9	-19844.5	-3.0299 ug/L	-3.0299 ppb	08:55:18
3	As 188.979†	-111.9	-114.0	18.483 ug/L	18.483 ppb	08:55:38
3	B 249.677†	1476.3	1628.3	-16.911 ug/L	-16.911 ppb	08:55:18
3	Ba 233.527†	-1109.7	-1270.0	-1.8380 ug/L	-1.8380 ppb	08:55:38
3	Be 313.107†	-9642.4	-6634.2	-3.4996 ug/L	-3.4996 ppb	08:55:18
3	Cd 226.502†	2417.4	2886.9	15.153 ug/L	15.153 ppb	08:55:38
3	Co 228.616†	168.1	223.3	1.1561 ug/L	1.1561 ppb	08:55:38
3	Cr 267.716†	-1218.8	-1440.0	14.761 ug/L	14.761 ppb	08:55:38
3	Cu 324.752†	699.1	-3732.8	1.0756 ug/L	1.0756 ppb	08:55:18
3	Mn 257.610†	-18454.6	-21478.8	-12.682 ug/L	-12.682 ppb	08:55:18
3	Mo 202.031†	-311.6	-363.5	-3.0191 ug/L	-3.0191 ppb	08:55:38
3	Ni 231.604†	186.8	138.7	5.8162 ug/L	5.8162 ppb	08:55:38
3	P 214.914†	381.1	284.6	76.012 ug/L	76.012 ppb	08:55:38
3	Pb 220.353†	-331.5	-332.2	34.610 ug/L	34.610 ppb	08:55:38
3	S 181.975 Axial†	31.4	14.3	-70.583 ug/L	-70.583 ppb	08:55:38
3	Sb 206.836†	26.2	10.1	-16.926 ug/L	-16.926 ppb	08:55:38
3	Se 196.026†	-1515.2	-1708.7	-625.52 ug/L	-625.52 ppb	08:55:38
3	Si 251.611†	-281.1	-847.6	-38.554 ug/L	-38.554 ppb	08:55:38
3	Sn 189.927†	-295.3	-340.9	-16.606 ug/L	-16.606 ppb	08:55:38
3	Ti 334.940†	-12091.6	-12943.7	-6.4565 ug/L	-6.4565 ppb	08:55:18
3	Tl 190.801†	-81.2	-69.3	-34.704 ug/L	-34.704 ppb	08:55:38
3	U 409.014†	402345.5	457931.7	14591 ug/L	14591 ppb	08:55:18
3	V 292.402†	1053.4	2370.2	-2.5971 ug/L	-2.5971 ppb	08:55:38
3	Zn 213.857†	3915.4	4001.4	-2.2009 ug/L	-2.2009 ppb	08:55:38
3	SiO2†	-353.4	-941.0	-92.176 ug/L	-92.176 ppb	08:55:53

Mean Data: LRI

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	595466.7	88.588 %		0.4322			0.49%
Sc Radial	2983.2	90.0 %		0.96			1.06%
Y 371.029	499636.1	87.594 %		0.4028			0.46%
Y RADIAL	3027.5	91.06 %		1.032			1.13%
Ag 328.068†	-19736.2	-2.1240 ug/L		1.01809	-2.1240 ppb	1.01809	47.93%
Al 396.153Radial†	450325.1	556590 ug/L		4798.7	556590 ppb	4798.7	0.86%
QC value greater than the upper limit for Al 396.153Radial Recovery = 111.32%							
As 188.979†	-126.1	10.038 ug/L		7.8590	10.038 ppb	7.8590	78.29%
B 249.677†	1704.6	-14.583 ug/L		3.5308	-14.583 ppb	3.5308	24.21%
Ba 233.527†	-1294.0	-2.0916 ug/L		0.30692	-2.0916 ppb	0.30692	14.67%
Be 313.107†	-6648.1	-3.5064 ug/L		0.04092	-3.5064 ppb	0.04092	1.17%
Ca 317.933Radial†	157092.4	495590 ug/L		3013.9	495590 ppb	3013.9	0.61%
QC value within limits for Ca 317.933Radial Recovery = 99.12%							
Cd 226.502†	2904.0	15.390 ug/L		0.5060	15.390 ppb	0.5060	3.29%
Co 228.616†	221.0	1.0638 ug/L		0.26804	1.0638 ppb	0.26804	25.20%
Cr 267.716†	-1387.8	15.771 ug/L		0.8998	15.771 ppb	0.8998	5.71%
Cu 324.752†	-3831.0	0.7780 ug/L		0.40359	0.7780 ppb	0.40359	51.88%

Fe 238.204 Radial†	15852.3	430380 ug/L	871.2	430380 ppb	871.2	0.20%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 86.08%						
K 766.490 Radial†	1688.1	-157.25 ug/L	6.254	-157.25 ppb	6.254	3.98%
Mg 279.077 IEC†	6332.5	493900 ug/L	1530.9	493900 ppb	1530.9	0.31%
QC value within limits for Mg 279.077 IEC Recovery = 98.78%						
Mn 257.610†	-21372.9	-12.442 ug/L	0.3079	-12.442 ppb	0.3079	2.47%
Mo 202.031†	-369.0	-3.5505 ug/L	0.76356	-3.5505 ppb	0.76356	21.51%
Na 589.592 Radial†	2360045.1	504630 ug/L	6647.5	504630 ppb	6647.5	1.32%
QC value within limits for Na 589.592 Radial Recovery = 100.93%						
Ni 231.604†	143.6	6.0233 ug/L	0.43559	6.0233 ppb	0.43559	7.23%
P 214.914†	302.5	93.839 ug/L	15.5760	93.839 ppb	15.5760	16.60%
Pb 220.353†	-310.4	39.855 ug/L	5.6964	39.855 ppb	5.6964	14.29%
S 181.975 Axial†	23.5	-49.906 ug/L	24.6838	-49.906 ppb	24.6838	49.46%
Sb 206.836†	19.3	-12.286 ug/L	6.5972	-12.286 ppb	6.5972	53.70%
Se 196.026†	-1702.9	-615.76 ug/L	12.631	-615.76 ppb	12.631	2.05%
Si 251.611†	-833.2	-37.883 ug/L	1.0717	-37.883 ppb	1.0717	2.83%
Sn 189.927†	-336.6	-14.790 ug/L	1.5797	-14.790 ppb	1.5797	10.68%
Sr 421.552†	1401.5	8.6765 ug/L	0.03191	8.6765 ppb	0.03191	0.37%
Ti 334.940†	-12863.2	-5.9780 ug/L	0.43535	-5.9780 ppb	0.43535	7.28%
Tl 190.801†	-65.7	-32.906 ug/L	1.5910	-32.906 ppb	1.5910	4.84%
U 409.014†	457374.5	14573 ug/L	38.0	14573 ppb	38.0	0.26%
QC value within limits for U 409.014 Recovery = 97.15%						
V 292.402†	2429.8	-2.1861 ug/L	0.58070	-2.1861 ppb	0.58070	26.56%
Zn 213.857†	3994.0	-2.4555 ug/L	0.30069	-2.4555 ppb	0.30069	12.25%
SiO2†	-928.8	-90.949 ug/L	5.8347	-90.949 ppb	5.8347	6.42%

QC Failed. Continue with analysis.

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 16

Date Collected: 4/5/2010 08:58:03

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3228.9	3228.9	97.4 %		09:00:21
1	Y RADIAL	3222.0	3222.0	96.91 %		09:00:21
1	Al 396.153Radial†	270.9	364.6	-25.717 ug/L	-25.717 ppb	09:00:21
1	Ca 317.933Radial†	24.0	12.5	39.452 ug/L	39.452 ppb	09:00:21
1	Fe 238.204 Radial†	-1.0	-7.5	87.455 ug/L	87.455 ppb	09:00:21
1	K 766.490 Radial†	2677368.5	2746059.9	333970 ug/L	333970 ppb	08:59:56
1	Mg 279.077 IEC†	-4.4	-5.3	-312.56 ug/L	-312.56 ppb	09:00:21
1	Na 589.592 Radial†	445.5	1160.1	248.04 ug/L	248.04 ppb	09:00:01
1	Sr 421.552†	1035896.0	1063441.4	9391.3 ug/L	9391.3 ppb	08:59:56
1	Sc 361.383	680992.2	680992.2	101.31 %		09:01:39
1	Y 371.029	568061.5	568061.5	99.590 %		09:01:39
1	Ag 328.068†	-5401.9	-5446.4	8.7987 ug/L	8.7987 ppb	09:01:44
1	As 188.979†	14502.4	14327.6	10365 ug/L	10365 ppb	09:01:44
1	B 249.677†	159492.1	157379.6	5080.6 ug/L	5080.6 ppb	09:01:39
1	Ba 233.527†	1225531.5	1209655.0	14267 ug/L	14267 ppb	09:01:39
1	Be 313.107†	5631278.3	5562685.1	2907.8 ug/L	2907.8 ppb	09:01:33
1	Cd 226.502†	516186.0	509645.8	10009 ug/L	10009 ppb	09:01:39
1	Co 228.616†	296451.8	292646.2	9695.9 ug/L	9695.9 ppb	09:01:39
1	Cr 267.716†	1411667.1	1393334.7	24173 ug/L	24173 ppb	09:01:39
1	Cu 324.752†	5594763.6	5517804.7	20031 ug/L	20031 ppb	09:01:33
1	Mn 257.610†	5946579.0	5869063.1	9538.6 ug/L	9538.6 ppb	09:01:33
1	Mo 202.031†	85681.0	84561.9	9822.5 ug/L	9822.5 ppb	09:01:44
1	Ni 231.604†	243558.9	240332.3	10083 ug/L	10083 ppb	09:01:39
1	P 214.914†	18623.9	18234.8	14198 ug/L	14198 ppb	09:01:44
1	Pb 220.353†	116336.4	114874.4	24079 ug/L	24079 ppb	09:01:44
1	S 181.975 Axial†	23301.0	22978.0	53188 ug/L	53188 ppb	09:01:44
1	Sb 206.836†	20517.4	20232.0	10736 ug/L	10736 ppb	09:01:44
1	Se 196.026†	9430.8	9320.0	10502 ug/L	10502 ppb	09:01:44
1	Si 251.611†	1049548.8	1035432.3	47611 ug/L	47611 ppb	09:01:39
1	Sn 189.927†	34122.8	33675.3	10536 ug/L	10536 ppb	09:01:44
1	Ti 334.940†	5042975.7	4978470.0	9922.0 ug/L	9922.0 ppb	09:01:33
1	Tl 190.801†	19748.0	19515.2	9705.9 ug/L	9705.9 ppb	09:01:44
1	U 409.014†	-14.0	1168.7	-16.679 ug/L	-16.679 ppb	09:01:39
1	V 292.402†	1061401.3	1048834.3	10278 ug/L	10278 ppb	09:01:39
1	Zn 213.857†	922639.3	910251.1	14032 ug/L	14032 ppb	09:01:39
1	SiO2†	1078526.7	1064023.8	105260 ug/L	105260 ppb	09:02:28
2	Sc Radial	3223.9	3223.9	97.3 %		09:00:52
2	Y RADIAL	3236.6	3236.6	97.36 %		09:00:52
2	Al 396.153Radial†	263.9	357.8	-42.911 ug/L	-42.911 ppb	09:00:52
2	Ca 317.933Radial†	21.4	9.9	31.242 ug/L	31.242 ppb	09:00:52
2	Fe 238.204 Radial†	-2.4	-8.9	49.937 ug/L	49.937 ppb	09:00:52
2	K 766.490 Radial†	2703809.3	2777556.4	337800 ug/L	337800 ppb	09:00:27
2	Mg 279.077 IEC†	-1.1	-1.9	-43.163 ug/L	-43.163 ppb	09:00:52
2	Na 589.592 Radial†	318.7	1030.4	220.32 ug/L	220.32 ppb	09:00:32
2	Sr 421.552†	1043988.4	1073429.6	9479.5 ug/L	9479.5 ppb	09:00:27
2	Sc 361.383	672912.6	672912.6	100.11 %		09:01:57
2	Y 371.029	561652.7	561652.7	98.466 %		09:01:57
2	Ag 328.068†	-5507.3	-5615.8	7.9301 ug/L	7.9301 ppb	09:02:03
2	As 188.979†	14634.6	14631.5	10583 ug/L	10583 ppb	09:02:03
2	B 249.677†	157662.7	157442.4	5082.6 ug/L	5082.6 ppb	09:01:57
2	Ba 233.527†	1216556.4	1215214.0	14332 ug/L	14332 ppb	09:01:57
2	Be 313.107†	5573470.6	5571679.4	2912.4 ug/L	2912.4 ppb	09:01:52
2	Cd 226.502†	512506.9	512088.3	10057 ug/L	10057 ppb	09:01:57
2	Co 228.616†	294027.9	293738.3	9732.5 ug/L	9732.5 ppb	09:01:57
2	Cr 267.716†	1402639.4	1401047.0	24306 ug/L	24306 ppb	09:01:57
2	Cu 324.752†	5535507.5	5524919.4	20057 ug/L	20057 ppb	09:01:52
2	Mn 257.610†	5878118.3	5871152.8	9542.0 ug/L	9542.0 ppb	09:01:52
2	Mo 202.031†	86239.7	86135.5	10005 ug/L	10005 ppb	09:02:03
2	Ni 231.604†	241796.3	241458.1	10130 ug/L	10130 ppb	09:01:57

2	P 214.914†	18699.4	18531.0	14488 ug/L	14488 ppb	09:02:03
2	Pb 220.353†	116846.9	116763.1	24475 ug/L	24475 ppb	09:02:03
2	S 181.975 Axial†	23342.3	23295.4	53923 ug/L	53923 ppb	09:02:03
2	Sb 206.836†	20637.7	20595.4	10928 ug/L	10928 ppb	09:02:03
2	Se 196.026†	9462.4	9463.4	10664 ug/L	10664 ppb	09:02:03
2	Si 251.611†	1036338.9	1034675.5	47574 ug/L	47574 ppb	09:01:57
2	Sn 189.927†	34128.0	34084.9	10664 ug/L	10664 ppb	09:02:03
2	Ti 334.940†	4988721.1	4984041.1	9933.0 ug/L	9933.0 ppb	09:01:52
2	Tl 190.801†	19827.4	19828.5	9860.5 ug/L	9860.5 ppb	09:02:03
2	U 409.014†	-109.6	1073.0	-20.031 ug/L	-20.031 ppb	09:01:57
2	V 292.402†	1052431.6	1052453.5	10315 ug/L	10315 ppb	09:01:57
2	Zn 213.857†	915812.1	914366.0	14096 ug/L	14096 ppb	09:01:57
2	SiO2†	1063844.5	1062139.8	105070 ug/L	105070 ppb	09:02:34
3	Sc Radial	3294.6	3294.6	99.4 %		09:01:23
3	Y RADIAL	3276.0	3276.0	98.54 %		09:01:23
3	Al 396.153Radial†	273.2	361.4	-21.811 ug/L	-21.811 ppb	09:01:23
3	Ca 317.933Radial†	25.1	13.1	41.450 ug/L	41.450 ppb	09:01:23
3	Fe 238.204 Radial†	-2.2	-8.6	54.965 ug/L	54.965 ppb	09:01:23
3	K 766.490 Radial†	2742122.6	2756414.1	335230 ug/L	335230 ppb	09:00:58
3	Mg 279.077 IEC†	-1.4	-2.2	-67.121 ug/L	-67.121 ppb	09:01:23
3	Na 589.592 Radial†	267.1	971.5	207.72 ug/L	207.72 ppb	09:01:03
3	Sr 421.552†	1057859.5	1064338.1	9399.2 ug/L	9399.2 ppb	09:00:58
3	Sc 361.383	689520.0	689520.0	102.58 %		09:02:16
3	Y 371.029	575545.5	575545.5	100.90 %		09:02:16
3	Ag 328.068†	-5387.0	-5366.0	9.1933 ug/L	9.1933 ppb	09:02:21
3	As 188.979†	14439.3	14089.1	10192 ug/L	10192 ppb	09:02:21
3	B 249.677†	162265.5	158136.3	5105.3 ug/L	5105.3 ppb	09:02:16
3	Ba 233.527†	1234748.9	1203679.7	14196 ug/L	14196 ppb	09:02:16
3	Be 313.107†	5624327.0	5487164.1	2868.3 ug/L	2868.3 ppb	09:02:11
3	Cd 226.502†	518574.2	505672.5	9930.8 ug/L	9930.8 ppb	09:02:16
3	Co 228.616†	298606.8	291128.0	9645.6 ug/L	9645.6 ppb	09:02:16
3	Cr 267.716†	1423068.0	1387215.7	24066 ug/L	24066 ppb	09:02:16
3	Cu 324.752†	5596557.6	5451254.8	19789 ug/L	19789 ppb	09:02:11
3	Mn 257.610†	5925347.3	5775771.8	9387.0 ug/L	9387.0 ppb	09:02:11
3	Mo 202.031†	85321.9	83165.9	9660.3 ug/L	9660.3 ppb	09:02:21
3	Ni 231.604†	245291.4	239048.0	10029 ug/L	10029 ppb	09:02:16
3	P 214.914†	18489.2	17876.2	13888 ug/L	13888 ppb	09:02:21
3	Pb 220.353†	115609.6	112745.7	23633 ug/L	23633 ppb	09:02:21
3	S 181.975 Axial†	23147.6	22544.0	52183 ug/L	52183 ppb	09:02:21
3	Sb 206.836†	20425.2	19891.7	10555 ug/L	10555 ppb	09:02:21
3	Se 196.026†	9353.2	9129.3	10287 ug/L	10287 ppb	09:02:21
3	Si 251.611†	1066380.6	1039028.2	47779 ug/L	47779 ppb	09:02:16
3	Sn 189.927†	33884.9	33026.9	10333 ug/L	10333 ppb	09:02:21
3	Ti 334.940†	5036178.0	4910280.4	9786.0 ug/L	9786.0 ppb	09:02:11
3	Tl 190.801†	19626.2	19155.4	9526.5 ug/L	9526.5 ppb	09:02:21
3	U 409.014†	-139.3	1046.7	-20.337 ug/L	-20.337 ppb	09:02:16
3	V 292.402†	1072749.4	1046939.8	10257 ug/L	10257 ppb	09:02:16
3	Zn 213.857†	928370.0	904574.4	13945 ug/L	13945 ppb	09:02:16
3	SiO2†	1072957.9	1045428.9	103420 ug/L	103420 ppb	09:02:40

Mean Data: LR2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	681141.6	101.33 %		1.235			1.22%
Sc Radial	3249.2	98.0 %		1.19			1.21%
Y 371.029	568419.9	99.653 %		1.2190			1.22%
Y RADIAL	3244.9	97.60 %		0.841			0.86%
Ag 328.068†	-5476.1	8.6407 ug/L		0.64626	8.6407 ppb	0.64626	7.48%
Al 396.153Radial†	361.3	-30.146 ug/L		11.2260	-30.146 ppb	11.2260	37.24%
As 188.979†	14349.4	10380 ug/L		195.7	10380 ppb	195.7	1.89%
QC value within limits for As 188.979 Recovery = 103.80%							
B 249.677†	157652.8	5089.5 ug/L		13.74	5089.5 ppb	13.74	0.27%
QC value within limits for B 249.677 Recovery = 101.79%							
Ba 233.527†	1209516.3	14265 ug/L		68.0	14265 ppb	68.0	0.48%
QC value within limits for Ba 233.527 Recovery = 95.10%							
Be 313.107†	5540509.5	2896.2 ug/L		24.26	2896.2 ppb	24.26	0.84%
QC value within limits for Be 313.107 Recovery = 96.54%							
Ca 317.933Radial†	11.8	37.381 ug/L		5.4099	37.381 ppb	5.4099	14.47%
Cd 226.502†	509135.5	9998.8 ug/L		63.58	9998.8 ppb	63.58	0.64%
QC value within limits for Cd 226.502 Recovery = 99.99%							

Co 228.616†	292504.2	9691.3 ug/L	43.66	9691.3 ppb	43.66	0.45%
QC value within limits for Co 228.616 Recovery = 96.91%						
Cr 267.716†	1393865.8	24182 ug/L	120.2	24182 ppb	120.2	0.50%
QC value within limits for Cr 267.716 Recovery = 96.73%						
Cu 324.752†	5497993.0	19959 ug/L	147.5	19959 ppb	147.5	0.74%
QC value within limits for Cu 324.752 Recovery = 99.79%						
Fe 238.204 Radial†	-8.3	64.119 ug/L	20.3652	64.119 ppb	20.3652	31.76%
K 766.490 Radial†	2760010.2	335670 ug/L	1952.3	335670 ppb	1952.3	0.58%
QC value greater than the upper limit for K 766.490 Radial Recovery = 111.89%						
Mg 279.077 IEC†	-3.1	-140.95 ug/L	149.103	-140.95 ppb	149.103	105.79%
Mn 257.610†	5838662.6	9489.2 ug/L	88.54	9489.2 ppb	88.54	0.93%
QC value within limits for Mn 257.610 Recovery = 94.89%						
Mo 202.031†	84621.1	9829.4 ug/L	172.57	9829.4 ppb	172.57	1.76%
QC value within limits for Mo 202.031 Recovery = 98.29%						
Na 589.592 Radial†	1054.0	225.36 ug/L	20.628	225.36 ppb	20.628	9.15%
Ni 231.604†	240279.5	10081 ug/L	50.6	10081 ppb	50.6	0.50%
QC value within limits for Ni 231.604 Recovery = 100.81%						
P 214.914†	18214.0	14191 ug/L	299.6	14191 ppb	299.6	2.11%
QC value within limits for P 214.914 Recovery = 94.61%						
Pb 220.353†	114794.4	24062 ug/L	421.4	24062 ppb	421.4	1.75%
QC value within limits for Pb 220.353 Recovery = 96.25%						
S 181.975 Axial†	22939.1	53098 ug/L	873.1	53098 ppb	873.1	1.64%
QC value within limits for S 181.975 Axial Recovery = 106.20%						
Sb 206.836†	20239.7	10740 ug/L	186.3	10740 ppb	186.3	1.73%
QC value within limits for Sb 206.836 Recovery = 107.40%						
Se 196.026†	9304.2	10484 ug/L	188.8	10484 ppb	188.8	1.80%
QC value within limits for Se 196.026 Recovery = 104.84%						
Si 251.611†	1036378.7	47654 ug/L	109.2	47654 ppb	109.2	0.23%
QC value within limits for Si 251.611 Recovery = 95.31%						
Sn 189.927†	33595.7	10511 ug/L	166.9	10511 ppb	166.9	1.59%
QC value within limits for Sn 189.927 Recovery = 105.11%						
Sr 421.552†	1067069.7	9423.3 ug/L	48.80	9423.3 ppb	48.80	0.52%
QC value within limits for Sr 421.552 Recovery = 94.23%						
Ti 334.940†	4957597.2	9880.3 ug/L	81.89	9880.3 ppb	81.89	0.83%
QC value within limits for Ti 334.940 Recovery = 98.80%						
Tl 190.801†	19499.7	9697.6 ug/L	167.14	9697.6 ppb	167.14	1.72%
QC value within limits for Tl 190.801 Recovery = 96.98%						
U 409.014†	1096.1	-19.016 ug/L	2.0297	-19.016 ppb	2.0297	10.67%
V 292.402†	1049409.2	10283 ug/L	29.4	10283 ppb	29.4	0.29%
QC value within limits for V 292.402 Recovery = 102.83%						
Zn 213.857†	909730.5	14024 ug/L	75.8	14024 ppb	75.8	0.54%
QC value within limits for Zn 213.857 Recovery = 93.49%						
SiO2†	1057197.5	104590 ug/L	1011.4	104590 ppb	1011.4	0.97%
QC value within limits for SiO2 Recovery = 97.74%						
QC Failed. Continue with analysis.						

Sequence No.: 13

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/5/2010 09:04:49

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3346.9	3346.9	101 %		09:07:01
1	Y RADIAL	3345.2	3345.2	100.6 %		09:07:01
1	Al 396.153Radial†	4109.0	4156.2	5111.8 ug/L	5111.8 ppb	09:06:41
1	Ca 317.933Radial†	1674.7	1646.6	5194.6 ug/L	5194.6 ppb	09:07:01
1	Fe 238.204 Radial†	193.6	185.4	5048.3 ug/L	5048.3 ppb	09:07:01
1	K 766.490 Radial†	46177.0	43190.4	5246.9 ug/L	5246.9 ppb	09:06:41
1	Mg 279.077 IEC†	68.0	66.5	5191.6 ug/L	5191.6 ppb	09:07:01
1	Na 589.592 Radial†	41913.1	42214.5	9026.3 ug/L	9026.3 ppb	09:06:41
1	Sr 421.552†	56257.9	55702.9	491.88 ug/L	491.88 ppb	09:06:41
1	Sc 361.383	704200.8	704200.8	104.76 %		09:07:58
1	Y 371.029	589725.4	589725.4	103.39 %		09:07:58
1	Ag 328.068†	88623.0	84478.1	502.36 ug/L	502.36 ppb	09:08:04
1	As 188.979†	726.1	706.1	511.90 ug/L	511.90 ppb	09:08:24
1	B 249.677†	17120.5	16294.2	526.62 ug/L	526.62 ppb	09:08:04
1	Ba 233.527†	45188.3	43123.1	509.06 ug/L	509.06 ppb	09:08:04
1	Be 313.107†	1015476.7	973607.7	506.10 ug/L	506.10 ppb	09:07:58
1	Cd 226.502†	27043.4	25956.1	509.32 ug/L	509.32 ppb	09:08:04
1	Co 228.616†	16048.0	15350.6	508.81 ug/L	508.81 ppb	09:08:24
1	Cr 267.716†	30541.7	29096.3	505.53 ug/L	505.53 ppb	09:08:04
1	Cu 324.752†	149530.6	138203.9	501.71 ug/L	501.71 ppb	09:08:04
1	Mn 257.610†	322261.9	307077.6	499.36 ug/L	499.36 ppb	09:08:04
1	Mo 202.031†	4670.4	4448.2	517.14 ug/L	517.14 ppb	09:08:24
1	Ni 231.604†	12796.0	12140.7	509.33 ug/L	509.33 ppb	09:08:04
1	P 214.914†	2887.0	2607.7	2487.7 ug/L	2487.7 ppb	09:08:24
1	Pb 220.353†	2578.6	2505.4	526.75 ug/L	526.75 ppb	09:08:24
1	S 181.975 Axial†	489.0	445.5	1030.2 ug/L	1030.2 ppb	09:08:24
1	Sb 206.836†	1047.1	979.7	520.68 ug/L	520.68 ppb	09:08:24
1	Se 196.026†	468.0	458.0	531.04 ug/L	531.04 ppb	09:08:24
1	Si 251.611†	57226.9	54095.8	2487.4 ug/L	2487.4 ppb	09:08:04
1	Sn 189.927†	1744.8	1659.8	520.25 ug/L	520.25 ppb	09:08:24
1	Ti 334.940†	256978.8	246075.1	490.73 ug/L	490.73 ppb	09:08:04
1	Tl 190.801†	1083.5	1057.1	525.45 ug/L	525.45 ppb	09:08:24
1	U 409.014†	14888.3	15393.7	490.42 ug/L	490.42 ppb	09:08:04
1	V 292.402†	52889.1	51658.3	507.23 ug/L	507.23 ppb	09:08:04
1	Zn 213.857†	34908.2	32877.3	505.44 ug/L	505.44 ppb	09:08:04
1	SiO2†	58167.0	54982.0	5439.1 ug/L	5439.1 ppb	09:09:31
2	Sc Radial	3418.3	3418.3	103 %		09:07:27
2	Y RADIAL	3415.7	3415.7	102.7 %		09:07:27
2	Al 396.153Radial†	4173.4	4133.5	5084.5 ug/L	5084.5 ppb	09:07:06
2	Ca 317.933Radial†	1703.3	1639.6	5172.5 ug/L	5172.5 ppb	09:07:27
2	Fe 238.204 Radial†	194.6	182.3	4965.1 ug/L	4965.1 ppb	09:07:27
2	K 766.490 Radial†	46947.2	42981.9	5221.6 ug/L	5221.6 ppb	09:07:06
2	Mg 279.077 IEC†	70.8	67.9	5297.5 ug/L	5297.5 ppb	09:07:27
2	Na 589.592 Radial†	42754.8	42163.5	9015.4 ug/L	9015.4 ppb	09:07:06
2	Sr 421.552†	57513.3	55756.2	492.35 ug/L	492.35 ppb	09:07:06
2	Sc 361.383	704314.7	704314.7	104.78 %		09:08:29
2	Y 371.029	590175.7	590175.7	103.47 %		09:08:29
2	Ag 328.068†	88809.7	84642.6	503.31 ug/L	503.31 ppb	09:08:35
2	As 188.979†	723.4	703.3	509.93 ug/L	509.93 ppb	09:08:55
2	B 249.677†	16940.3	16119.6	521.00 ug/L	521.00 ppb	09:08:35
2	Ba 233.527†	45165.7	43094.6	508.72 ug/L	508.72 ppb	09:08:35
2	Be 313.107†	1016717.4	974635.0	506.63 ug/L	506.63 ppb	09:08:29
2	Cd 226.502†	27033.2	25942.2	509.05 ug/L	509.05 ppb	09:08:35
2	Co 228.616†	15666.1	14983.6	496.63 ug/L	496.63 ppb	09:08:55
2	Cr 267.716†	30571.9	29120.5	505.94 ug/L	505.94 ppb	09:08:35
2	Cu 324.752†	149059.2	137731.0	499.98 ug/L	499.98 ppb	09:08:35
2	Mn 257.610†	321662.0	306455.3	498.34 ug/L	498.34 ppb	09:08:35
2	Mo 202.031†	4558.1	4340.3	504.60 ug/L	504.60 ppb	09:08:55
2	Ni 231.604†	12825.3	12166.8	510.43 ug/L	510.43 ppb	09:08:35

2	P 214.914†	2804.5	2528.6	2409.5 ug/L	2409.5 ppb	09:08:55
2	Pb 220.353†	2523.9	2452.8	515.70 ug/L	515.70 ppb	09:08:55
2	S 181.975 Axial†	476.2	433.1	1001.5 ug/L	1001.5 ppb	09:08:55
2	Sb 206.836†	1015.7	949.6	504.77 ug/L	504.77 ppb	09:08:55
2	Se 196.026†	458.7	449.1	520.74 ug/L	520.74 ppb	09:08:55
2	Si 251.611†	57170.5	54033.2	2484.6 ug/L	2484.6 ppb	09:08:35
2	Sn 189.927†	1695.9	1612.9	505.55 ug/L	505.55 ppb	09:08:55
2	Ti 334.940†	256747.5	245814.7	490.19 ug/L	490.19 ppb	09:08:35
2	Tl 190.801†	1058.8	1033.3	513.74 ug/L	513.74 ppb	09:08:55
2	U 409.014†	14934.2	15435.2	491.75 ug/L	491.75 ppb	09:08:35
2	V 292.402†	52901.4	51661.8	507.11 ug/L	507.11 ppb	09:08:35
2	Zn 213.857†	34830.4	32797.7	504.21 ug/L	504.21 ppb	09:08:35
2	SiO2†	57490.2	54327.0	5374.5 ug/L	5374.5 ppb	09:09:36
3	Sc Radial	3424.1	3424.1	103 %		09:07:52
3	Y RADIAL	3417.6	3417.6	102.8 %		09:07:52
3	Al 396.153Radial†	4238.0	4189.3	5153.3 ug/L	5153.3 ppb	09:07:32
3	Ca 317.933Radial†	1710.8	1644.1	5186.7 ug/L	5186.7 ppb	09:07:52
3	Fe 238.204 Radial†	198.1	185.4	5047.6 ug/L	5047.6 ppb	09:07:52
3	K 766.490 Radial†	47016.9	42972.3	5220.4 ug/L	5220.4 ppb	09:07:32
3	Mg 279.077 IEC†	71.5	68.4	5343.3 ug/L	5343.3 ppb	09:07:52
3	Na 589.592 Radial†	42893.2	42227.2	9029.0 ug/L	9029.0 ppb	09:07:32
3	Sr 421.552†	57871.6	56008.7	494.58 ug/L	494.58 ppb	09:07:32
3	Sc 361.383	716147.8	716147.8	106.54 %		09:09:00
3	Y 371.029	600059.4	600059.4	105.20 %		09:09:00
3	Ag 328.068†	89830.4	84200.3	500.71 ug/L	500.71 ppb	09:09:05
3	As 188.979†	734.8	702.6	509.42 ug/L	509.42 ppb	09:09:25
3	B 249.677†	17205.6	16101.5	520.39 ug/L	520.39 ppb	09:09:05
3	Ba 233.527†	45401.7	42603.9	502.94 ug/L	502.94 ppb	09:09:05
3	Be 313.107†	1027469.2	968693.9	503.54 ug/L	503.54 ppb	09:09:00
3	Cd 226.502†	27106.4	25584.6	502.02 ug/L	502.02 ppb	09:09:05
3	Co 228.616†	15942.5	14996.0	497.04 ug/L	497.04 ppb	09:09:25
3	Cr 267.716†	30719.8	28777.2	499.99 ug/L	499.99 ppb	09:09:05
3	Cu 324.752†	152550.1	138656.9	503.35 ug/L	503.35 ppb	09:09:05
3	Mn 257.610†	324405.1	303957.6	494.28 ug/L	494.28 ppb	09:09:05
3	Mo 202.031†	4643.7	4348.8	505.60 ug/L	505.60 ppb	09:09:25
3	Ni 231.604†	12888.5	12023.8	504.43 ug/L	504.43 ppb	09:09:05
3	P 214.914†	2865.2	2541.3	2421.4 ug/L	2421.4 ppb	09:09:25
3	Pb 220.353†	2574.6	2460.6	517.35 ug/L	517.35 ppb	09:09:25
3	S 181.975 Axial†	490.3	438.9	1014.9 ug/L	1014.9 ppb	09:09:25
3	Sb 206.836†	1046.2	962.2	511.31 ug/L	511.31 ppb	09:09:25
3	Se 196.026†	472.1	454.5	527.05 ug/L	527.05 ppb	09:09:25
3	Si 251.611†	58035.0	53943.1	2480.5 ug/L	2480.5 ppb	09:09:05
3	Sn 189.927†	1739.1	1626.6	509.87 ug/L	509.87 ppb	09:09:25
3	Ti 334.940†	260022.1	244839.5	488.25 ug/L	488.25 ppb	09:09:05
3	Tl 190.801†	1080.1	1036.6	515.35 ug/L	515.35 ppb	09:09:25
3	U 409.014†	15180.3	15430.7	491.61 ug/L	491.61 ppb	09:09:05
3	V 292.402†	53470.2	51361.5	504.20 ug/L	504.20 ppb	09:09:05
3	Zn 213.857†	35039.4	32444.6	498.76 ug/L	498.76 ppb	09:09:05
3	SiO2†	57986.1	53885.9	5330.7 ug/L	5330.7 ppb	09:09:41

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	708221.1	105.36 %	1.021			0.97%
Sc Radial	3396.4	102 %	1.3			1.27%
Y 371.029	593320.2	104.02 %	1.024			0.98%
Y RADIAL	3392.8	102.1 %	1.24			1.22%
Ag 328.068†	84440.4	502.13 ug/L	1.316	502.13 ppb	1.316	0.26%
QC value within limits for Ag 328.068 Recovery = 100.43%						
Al 396.153Radial†	4159.6	5116.5 ug/L	34.66	5116.5 ppb	34.66	0.68%
QC value within limits for Al 396.153Radial Recovery = 102.33%						
As 188.979†	704.0	510.41 ug/L	1.309	510.41 ppb	1.309	0.26%
QC value within limits for As 188.979 Recovery = 102.08%						
B 249.677†	16171.8	522.67 ug/L	3.432	522.67 ppb	3.432	0.66%
QC value within limits for B 249.677 Recovery = 104.53%						
Ba 233.527†	42940.5	506.91 ug/L	3.440	506.91 ppb	3.440	0.68%
QC value within limits for Ba 233.527 Recovery = 101.38%						
Be 313.107†	972312.2	505.42 ug/L	1.650	505.42 ppb	1.650	0.33%
QC value within limits for Be 313.107 Recovery = 101.08%						
Ca 317.933Radial†	1643.4	5184.6 ug/L	11.20	5184.6 ppb	11.20	0.22%

QC value within limits for Ca 317.933 Radial Recovery = 103.69%

Cd 226.502†	25827.6	506.80 ug/L	4.137	506.80 ppb	4.137	0.82%
QC value within limits for Cd 226.502 Recovery = 101.36%						
Co 228.616†	15110.1	500.83 ug/L	6.920	500.83 ppb	6.920	1.38%
QC value within limits for Co 228.616 Recovery = 100.17%						
Cr 267.716†	28998.0	503.82 ug/L	3.322	503.82 ppb	3.322	0.66%
QC value within limits for Cr 267.716 Recovery = 100.76%						
Cu 324.752†	138197.3	501.68 ug/L	1.683	501.68 ppb	1.683	0.34%
QC value within limits for Cu 324.752 Recovery = 100.34%						
Fe 238.204 Radial†	184.4	5020.3 ug/L	47.86	5020.3 ppb	47.86	0.95%
QC value within limits for Fe 238.204 Radial Recovery = 100.41%						
K 766.490 Radial†	43048.2	5229.7 ug/L	14.98	5229.7 ppb	14.98	0.29%
QC value within limits for K 766.490 Radial Recovery = 104.59%						
Mg 279.077 IEC†	67.6	5277.5 ug/L	77.81	5277.5 ppb	77.81	1.47%
QC value within limits for Mg 279.077 IEC Recovery = 105.55%						
Mn 257.610†	305830.1	497.33 ug/L	2.685	497.33 ppb	2.685	0.54%
QC value within limits for Mn 257.610 Recovery = 99.47%						
Mo 202.031†	4379.1	509.11 ug/L	6.968	509.11 ppb	6.968	1.37%
QC value within limits for Mo 202.031 Recovery = 101.82%						
Na 589.592 Radial†	42201.7	9023.6 ug/L	7.22	9023.6 ppb	7.22	0.08%
QC value within limits for Na 589.592 Radial Recovery = 90.24%						
Ni 231.604†	12110.4	508.06 ug/L	3.196	508.06 ppb	3.196	0.63%
QC value within limits for Ni 231.604 Recovery = 101.61%						
P 214.914†	2559.2	2439.5 ug/L	42.13	2439.5 ppb	42.13	1.73%
QC value within limits for P 214.914 Recovery = 97.58%						
Pb 220.353†	2473.0	519.93 ug/L	5.960	519.93 ppb	5.960	1.15%
QC value within limits for Pb 220.353 Recovery = 103.99%						
S 181.975 Axial†	439.2	1015.6 ug/L	14.33	1015.6 ppb	14.33	1.41%
QC value within limits for S 181.975 Axial Recovery = 101.56%						
Sb 206.836†	963.9	512.25 ug/L	7.998	512.25 ppb	7.998	1.56%
QC value within limits for Sb 206.836 Recovery = 102.45%						
Se 196.026†	453.9	526.28 ug/L	5.194	526.28 ppb	5.194	0.99%
QC value within limits for Se 196.026 Recovery = 105.26%						
Si 251.611†	54024.1	2484.2 ug/L	3.47	2484.2 ppb	3.47	0.14%
QC value within limits for Si 251.611 Recovery = 99.37%						
Sn 189.927†	1633.1	511.89 ug/L	7.554	511.89 ppb	7.554	1.48%
QC value within limits for Sn 189.927 Recovery = 102.38%						
Sr 421.552†	55822.6	492.93 ug/L	1.443	492.93 ppb	1.443	0.29%
QC value within limits for Sr 421.552 Recovery = 98.59%						
Ti 334.940†	245576.4	489.72 ug/L	1.304	489.72 ppb	1.304	0.27%
QC value within limits for Ti 334.940 Recovery = 97.94%						
Tl 190.801†	1042.4	518.18 ug/L	6.344	518.18 ppb	6.344	1.22%
QC value within limits for Tl 190.801 Recovery = 103.64%						
U 409.014†	15419.9	491.26 ug/L	0.735	491.26 ppb	0.735	0.15%
QC value within limits for U 409.014 Recovery = 98.25%						
V 292.402†	51560.5	506.18 ug/L	1.713	506.18 ppb	1.713	0.34%
QC value within limits for V 292.402 Recovery = 101.24%						
Zn 213.857†	32706.6	502.80 ug/L	3.558	502.80 ppb	3.558	0.71%
QC value within limits for Zn 213.857 Recovery = 100.56%						
SiO2†	54398.3	5381.4 ug/L	54.53	5381.4 ppb	54.53	1.01%
QC value within limits for SiO2 Recovery = 100.63%						

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/5/2010 09:11:52

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	3445.9	3445.9	104 %		09:14:05
1	Y RADIAL	3447.3	3447.3	103.7 %		09:14:05
1	Al 396.153Radial†	-77.0	12.4	15.323 ug/L	15.323 ppb	09:14:05
1	Ca 317.933Radial†	24.4	11.4	35.892 ug/L	35.892 ppb	09:14:05
1	Fe 238.204 Radial†	5.9	-0.7	-18.483 ug/L	-18.483 ppb	09:14:05
1	K 766.490 Radial†	3300.2	630.2	76.618 ug/L	76.618 ppb	09:13:45
1	Mg 279.077 IEC†	-0.3	-1.1	-85.686 ug/L	-85.686 ppb	09:14:05
1	Na 589.592 Radial†	-487.6	233.6	49.953 ug/L	49.953 ppb	09:13:45
1	Sr 421.552†	67.4	48.4	0.4273 ug/L	0.4273 ppb	09:13:45
1	Sc 361.383	691712.2	691712.2	102.91 %		09:15:01
1	Y 371.029	586494.6	586494.6	102.82 %		09:15:01
1	Ag 328.068†	68.7	-47.8	-0.2914 ug/L	-0.2914 ppb	09:15:06
1	As 188.979†	-17.0	-3.6	-2.5624 ug/L	-2.5624 ppb	09:15:27
1	B 249.677†	625.3	560.0	18.179 ug/L	18.179 ppb	09:15:06
1	Ba 233.527†	36.9	25.7	0.3030 ug/L	0.3030 ppb	09:15:27
1	Be 313.107†	-4207.7	223.2	0.1165 ug/L	0.1165 ppb	09:15:06
1	Cd 226.502†	-125.7	20.4	0.4036 ug/L	0.4036 ppb	09:15:27
1	Co 228.616†	-20.1	12.8	0.4251 ug/L	0.4251 ppb	09:15:27
1	Cr 267.716†	86.4	27.6	0.4743 ug/L	0.4743 ppb	09:15:27
1	Cu 324.752†	4730.8	70.7	0.2524 ug/L	0.2524 ppb	09:15:06
1	Mn 257.610†	430.4	-110.5	-0.1780 ug/L	-0.1780 ppb	09:15:27
1	Mo 202.031†	10.6	0.5	0.0543 ug/L	0.0543 ppb	09:15:27
1	Ni 231.604†	63.2	-12.0	-0.5019 ug/L	-0.5019 ppb	09:15:27
1	P 214.914†	147.3	-4.9	-4.8330 ug/L	-4.8330 ppb	09:15:27
1	Pb 220.353†	-13.8	30.7	6.4398 ug/L	6.4398 ppb	09:15:27
1	S 181.975 Axial†	22.6	0.6	1.3922 ug/L	1.3922 ppb	09:15:27
1	Sb 206.836†	28.4	7.9	4.0796 ug/L	4.0796 ppb	09:15:27
1	Se 196.026†	-12.6	-0.9	-1.0134 ug/L	-1.0134 ppb	09:15:27
1	Si 251.611†	527.2	-16.2	-0.7473 ug/L	-0.7473 ppb	09:15:27
1	Sn 189.927†	13.0	7.0	2.1945 ug/L	2.1945 ppb	09:15:27
1	Ti 334.940†	-640.6	160.4	0.3291 ug/L	0.3291 ppb	09:15:06
1	Tl 190.801†	-18.2	5.2	2.5752 ug/L	2.5752 ppb	09:15:27
1	U 409.014†	-1031.6	180.0	5.7558 ug/L	5.7558 ppb	09:15:01
1	V 292.402†	-1158.6	48.5	0.4819 ug/L	0.4819 ppb	09:15:06
1	Zn 213.857†	492.9	35.6	0.5585 ug/L	0.5585 ppb	09:15:27
1	SiO2†	535.8	-19.1	-1.8923 ug/L	-1.8923 ppb	09:16:47
2	Sc Radial	3439.4	3439.4	104 %		09:14:30
2	Y RADIAL	3443.3	3443.3	103.6 %		09:14:30
2	Al 396.153Radial†	-69.8	19.2	23.629 ug/L	23.629 ppb	09:14:30
2	Ca 317.933Radial†	17.3	4.6	14.476 ug/L	14.476 ppb	09:14:30
2	Fe 238.204 Radial†	5.9	-0.7	-19.285 ug/L	-19.285 ppb	09:14:30
2	K 766.490 Radial†	3317.2	652.6	79.352 ug/L	79.352 ppb	09:14:10
2	Mg 279.077 IEC†	-0.2	-1.0	-80.508 ug/L	-80.508 ppb	09:14:30
2	Na 589.592 Radial†	-581.1	142.6	30.498 ug/L	30.498 ppb	09:14:10
2	Sr 421.552†	43.0	25.0	0.2210 ug/L	0.2210 ppb	09:14:10
2	Sc 361.383	693984.3	693984.3	103.24 %		09:15:32
2	Y 371.029	588557.1	588557.1	103.18 %		09:15:32
2	Ag 328.068†	156.5	37.1	0.2114 ug/L	0.2114 ppb	09:15:37
2	As 188.979†	-17.6	-4.1	-2.9407 ug/L	-2.9407 ppb	09:15:57
2	B 249.677†	658.2	589.9	19.150 ug/L	19.150 ppb	09:15:37
2	Ba 233.527†	48.6	36.9	0.4349 ug/L	0.4349 ppb	09:15:57
2	Be 313.107†	-4067.2	372.6	0.1936 ug/L	0.1936 ppb	09:15:37
2	Cd 226.502†	-140.1	6.9	0.1378 ug/L	0.1378 ppb	09:15:57
2	Co 228.616†	-24.1	9.1	0.3032 ug/L	0.3032 ppb	09:15:57
2	Cr 267.716†	76.9	18.1	0.3106 ug/L	0.3106 ppb	09:15:57
2	Cu 324.752†	4582.2	-88.2	-0.3237 ug/L	-0.3237 ppb	09:15:37
2	Mn 257.610†	428.7	-113.5	-0.1831 ug/L	-0.1831 ppb	09:15:57
2	Mo 202.031†	21.7	11.2	1.2970 ug/L	1.2970 ppb	09:15:57
2	Ni 231.604†	70.6	-5.0	-0.2092 ug/L	-0.2092 ppb	09:15:57

2	P 214.914†	153.5	0.7	0.8073 ug/L	0.8073 ppb	09:15:57
2	Pb 220.353†	-23.0	21.8	4.5877 ug/L	4.5877 ppb	09:15:57
2	S 181.975 Axial†	25.9	3.8	8.7749 ug/L	8.7749 ppb	09:15:57
2	Sb 206.836†	20.1	-0.3	-0.0717 ug/L	-0.0717 ppb	09:15:57
2	Se 196.026†	-19.4	-7.4	-8.3831 ug/L	-8.3831 ppb	09:15:57
2	Si 251.611†	519.1	-25.7	-1.2012 ug/L	-1.2012 ppb	09:15:57
2	Sn 189.927†	13.5	7.4	2.3033 ug/L	2.3033 ppb	09:15:57
2	Ti 334.940†	-722.0	83.6	0.1733 ug/L	0.1733 ppb	09:15:37
2	Tl 190.801†	-24.7	-1.1	-0.5256 ug/L	-0.5256 ppb	09:15:57
2	U 409.014†	-1081.0	135.4	4.3309 ug/L	4.3309 ppb	09:15:32
2	V 292.402†	-1162.7	48.3	0.4950 ug/L	0.4950 ppb	09:15:37
2	Zn 213.857†	485.3	26.7	0.4196 ug/L	0.4196 ppb	09:15:57
2	SiO2†	539.7	-17.0	-1.7225 ug/L	-1.7225 ppb	09:17:07
3	Sc Radial	3376.4	3376.4	102 %		09:14:55
3	Y RADIAL	3389.1	3389.1	101.9 %		09:14:55
3	Al 396.153Radial†	-76.9	10.9	13.514 ug/L	13.514 ppb	09:14:55
3	Ca 317.933Radial†	21.5	9.0	28.370 ug/L	28.370 ppb	09:14:55
3	Fe 238.204 Radial†	7.5	1.0	27.303 ug/L	27.303 ppb	09:14:55
3	K 766.490 Radial†	3354.0	748.3	90.989 ug/L	90.989 ppb	09:14:35
3	Mg 279.077 IEC†	2.0	1.2	90.322 ug/L	90.322 ppb	09:14:55
3	Na 589.592 Radial†	-506.3	205.7	43.976 ug/L	43.976 ppb	09:14:35
3	Sr 421.552†	104.6	86.2	0.7614 ug/L	0.7614 ppb	09:14:35
3	Sc 361.383	695573.9	695573.9	103.48 %		09:16:02
3	Y 371.029	590123.1	590123.1	103.46 %		09:16:02
3	Ag 328.068†	141.1	21.8	0.1368 ug/L	0.1368 ppb	09:16:07
3	As 188.979†	-11.8	1.6	1.1384 ug/L	1.1384 ppb	09:16:27
3	B 249.677†	572.2	505.4	16.398 ug/L	16.398 ppb	09:16:07
3	Ba 233.527†	41.3	29.8	0.3530 ug/L	0.3530 ppb	09:16:27
3	Be 313.107†	-4243.8	211.0	0.1096 ug/L	0.1096 ppb	09:16:07
3	Cd 226.502†	-110.4	35.8	0.7014 ug/L	0.7014 ppb	09:16:27
3	Co 228.616†	-27.9	5.4	0.1781 ug/L	0.1781 ppb	09:16:27
3	Cr 267.716†	80.0	21.0	0.3659 ug/L	0.3659 ppb	09:16:27
3	Cu 324.752†	4667.9	-15.6	-0.0573 ug/L	-0.0573 ppb	09:16:07
3	Mn 257.610†	418.9	-124.0	-0.2024 ug/L	-0.2024 ppb	09:16:27
3	Mo 202.031†	8.7	-1.4	-0.1630 ug/L	-0.1630 ppb	09:16:27
3	Ni 231.604†	73.8	-2.0	-0.0847 ug/L	-0.0847 ppb	09:16:27
3	P 214.914†	143.1	-9.7	-9.5993 ug/L	-9.5993 ppb	09:16:27
3	Pb 220.353†	2.8	46.8	9.8097 ug/L	9.8097 ppb	09:16:27
3	S 181.975 Axial†	21.3	-0.7	-1.6527 ug/L	-1.6527 ppb	09:16:27
3	Sb 206.836†	16.0	-4.2	-2.1439 ug/L	-2.1439 ppb	09:16:27
3	Se 196.026†	-16.4	-4.5	-4.9525 ug/L	-4.9525 ppb	09:16:27
3	Si 251.611†	515.8	-30.1	-1.3842 ug/L	-1.3842 ppb	09:16:27
3	Sn 189.927†	11.8	5.8	1.8096 ug/L	1.8096 ppb	09:16:27
3	Ti 334.940†	-765.3	43.3	0.0811 ug/L	0.0811 ppb	09:16:07
3	Tl 190.801†	-15.9	7.5	3.6839 ug/L	3.6839 ppb	09:16:27
3	U 409.014†	-1101.8	117.7	3.7594 ug/L	3.7594 ppb	09:16:02
3	V 292.402†	-1141.1	71.7	0.6965 ug/L	0.6965 ppb	09:16:07
3	Zn 213.857†	490.0	30.2	0.4650 ug/L	0.4650 ppb	09:16:27
3	SiO2†	519.0	-38.3	-3.7904 ug/L	-3.7904 ppb	09:17:27

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	693756.8	103.21 %		0.289			0.28%
Sc Radial	3420.6	103 %		1.2			1.12%
Y 371.029	588391.6	103.15 %		0.319			0.31%
Y RADIAL	3426.6	103.1 %		0.98			0.95%
Ag 328.068†	3.7	0.0189 ug/L		0.27132	0.0189 ppb	0.27132	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	14.2	17.489 ug/L		5.3941	17.489 ppb	5.3941	30.84%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-2.0	-1.4549 ug/L		2.25381	-1.4549 ppb	2.25381	154.91%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	551.8	17.909 ug/L		1.3956	17.909 ppb	1.3956	7.79%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	30.8	0.3636 ug/L		0.06655	0.3636 ppb	0.06655	18.30%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	268.9	0.1399 ug/L		0.04665	0.1399 ppb	0.04665	33.34%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	8.3	26.246 ug/L		10.8647	26.246 ppb	10.8647	41.40%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	21.1	0.4143 ug/L	0.28195	0.4143 ppb	0.28195	68.06%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	9.1	0.3021 ug/L	0.12350	0.3021 ppb	0.12350	40.88%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	22.2	0.3836 ug/L	0.08331	0.3836 ppb	0.08331	21.72%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-11.1	-0.0429 ug/L	0.28830	-0.0429 ppb	0.28830	672.25%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-0.1	-3.4883 ug/L	26.66882	-3.4883 ppb	26.66882	764.52%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	677.0	82.320 ug/L	7.6312	82.320 ppb	7.6312	9.27%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-0.3	-25.291 ug/L	100.1573	-25.291 ppb	100.1573	396.02%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-116.0	-0.1878 ug/L	0.01291	-0.1878 ppb	0.01291	6.87%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	3.4	0.3961 ug/L	0.78772	0.3961 ppb	0.78772	198.86%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	194.0	41.476 ug/L	9.9654	41.476 ppb	9.9654	24.03%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-6.3	-0.2653 ug/L	0.21418	-0.2653 ppb	0.21418	80.74%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	-4.6	-4.5417 ug/L	5.20943	-4.5417 ppb	5.20943	114.70%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	33.1	6.9457 ug/L	2.64746	6.9457 ppb	2.64746	38.12%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	1.2	2.8381 ug/L	5.36204	2.8381 ppb	5.36204	188.93%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	1.1	0.6213 ug/L	3.16914	0.6213 ppb	3.16914	510.06%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	-4.3	-4.7830 ug/L	3.68773	-4.7830 ppb	3.68773	77.10%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	-24.0	-1.1109 ug/L	0.32789	-1.1109 ppb	0.32789	29.52%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	6.7	2.1025 ug/L	0.25938	2.1025 ppb	0.25938	12.34%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	53.2	0.4699 ug/L	0.27271	0.4699 ppb	0.27271	58.04%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	95.8	0.1945 ug/L	0.12536	0.1945 ppb	0.12536	64.45%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	3.9	1.9112 ug/L	2.18191	1.9112 ppb	2.18191	114.16%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	144.4	4.6154 ug/L	1.02812	4.6154 ppb	1.02812	22.28%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	56.1	0.5578 ug/L	0.12027	0.5578 ppb	0.12027	21.56%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	30.9	0.4810 ug/L	0.07081	0.4810 ppb	0.07081	14.72%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		-24.8	-2.4684 ug/L	1.14801	-2.4684 ppb	1.14801	46.51%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

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Analysis Begun

Start Time: 4/5/2010 09:26:56

Plasma On Time: 4/5/2010 06:06:40

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\040510.sif

Batch ID:

Results Data Set: 040510

Results Library: C:\pe\Optima3\Results\Results.mdb

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Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 4/5/2010 06:59:44

IEC File: 011110.iec

MSF File:

Method Description:

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

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Sequence No.: 1

Autosampler Location: 37

Sample ID: LR1

Date Collected: 4/5/2010 09:26:57

Analyst: HSC

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3314.1	3314.1	100.0 %		09:29:10
1	Y RADIAL	3339.9	3339.9	100.5 %		09:29:10
1	Al 396.153Radial†	-99.3	-12.9	-14.880 ug/L	-14.880 ppb	09:29:10

1	Ca 317.933Radial†	16.4	4.3	13.573 ug/L	13.573 ppb	09:29:10
1	Fe 238.204 Radial†	14191.5	14188.3	385200 ug/L	385200 ppb	09:28:50
1	K 766.490 Radial†	2754.6	210.7	25.660 ug/L	25.660 ppb	09:28:50
1	Mg 279.077 IEC†	8.0	7.2	156.36 ug/L	156.36 ppb	09:29:10
1	Na 589.592 Radial†	-615.5	87.1	18.625 ug/L	18.625 ppb	09:28:50
1	Sr 421.552†	106.8	90.4	0.7980 ug/L	0.7980 ppb	09:28:50
1	Sc 361.383	709103.5	709103.5	105.49 %		09:30:08
1	Y 371.029	600090.8	600090.8	105.21 %		09:30:08
1	Ag 328.068†	-20193.3	-19256.3	5.4899 ug/L	5.4899 ppb	09:30:08
1	As 188.979†	-121.6	-102.3	16.704 ug/L	16.704 ppb	09:30:28
1	B 249.677†	1626.2	1493.8	-14.119 ug/L	-14.119 ppb	09:30:08
1	Ba 233.527†	-1330.9	-1271.8	-3.1379 ug/L	-3.1379 ppb	09:30:28
1	Be 313.107†	-4344.3	193.9	0.1011 ug/L	0.1011 ppb	09:30:08
1	Cd 226.502†	2310.2	2332.5	6.0019 ug/L	6.0019 ppb	09:30:28
1	Co 228.616†	546.4	550.4	12.620 ug/L	12.620 ppb	09:30:28
1	Cr 267.716†	-425.9	-460.1	32.885 ug/L	32.885 ppb	09:30:28
1	Cu 324.752†	-1176.9	-5642.1	-0.1255 ug/L	-0.1255 ppb	09:30:08
1	Mn 257.610†	-30122.1	-29082.2	-9.2437 ug/L	-9.2437 ppb	09:30:08
1	Mo 202.031†	-186.4	-186.5	8.2442 ug/L	8.2442 ppb	09:30:08
1	Ni 231.604†	137.1	56.6	2.3646 ug/L	2.3646 ppb	09:30:28
1	P 214.914†	520.8	345.8	36.538 ug/L	36.538 ppb	09:30:28
1	Pb 220.353†	171.8	207.0	5.8969 ug/L	5.8969 ppb	09:30:28
1	S 181.975 Axial†	30.5	7.6	17.581 ug/L	17.581 ppb	09:30:28
1	Sb 206.836†	24.6	3.6	-2.8031 ug/L	-2.8031 ppb	09:30:28
1	Se 196.026†	-1429.3	-1343.5	-485.89 ug/L	-485.89 ppb	09:30:28
1	Si 251.611†	-152.2	-672.8	-30.750 ug/L	-30.750 ppb	09:30:08
1	Sn 189.927†	-12.6	-17.6	-3.1012 ug/L	-3.1012 ppb	09:30:28
1	Ti 334.940†	-706.2	113.5	0.1599 ug/L	0.1599 ppb	09:30:28
1	Tl 190.801†	-16.7	7.0	3.0741 ug/L	3.0741 ppb	09:30:28
1	U 409.014†	673.0	1820.4	14.301 ug/L	14.301 ppb	09:30:08
1	V 292.402†	4603.2	5537.9	-2.6464 ug/L	-2.6464 ppb	09:30:08
1	Zn 213.857†	3253.9	2641.1	-16.654 ug/L	-16.654 ppb	09:30:28
1	SiO2†	-6.6	-546.0	-53.562 ug/L	-53.562 ppb	09:31:24
2	Sc Radial	3419.0	3419.0	103 %		09:29:36
2	Y RADIAL	3435.4	3435.4	103.3 %		09:29:36
2	Al 396.153Radial†	-97.3	-7.9	-8.6989 ug/L	-8.6989 ppb	09:29:36
2	Ca 317.933Radial†	17.4	4.7	14.836 ug/L	14.836 ppb	09:29:36
2	Fe 238.204 Radial†	14225.7	13785.9	374280 ug/L	374280 ppb	09:29:16
2	K 766.490 Radial†	2639.4	14.5	1.7910 ug/L	1.7910 ppb	09:29:16
2	Mg 279.077 IEC†	6.0	5.0	-0.4625 ug/L	-0.4625 ppb	09:29:36
2	Na 589.592 Radial†	-578.0	142.4	30.438 ug/L	30.438 ppb	09:29:16
2	Sr 421.552†	102.9	83.3	0.7358 ug/L	0.7358 ppb	09:29:16
2	Sc 361.383	715948.0	715948.0	106.51 %		09:30:33
2	Y 371.029	605369.8	605369.8	106.13 %		09:30:33
2	Ag 328.068†	-20154.6	-19036.9	3.4119 ug/L	3.4119 ppb	09:30:33
2	As 188.979†	-123.6	-103.1	13.586 ug/L	13.586 ppb	09:30:53
2	B 249.677†	1670.0	1520.3	-11.484 ug/L	-11.484 ppb	09:30:33
2	Ba 233.527†	-1354.0	-1281.4	-3.5838 ug/L	-3.5838 ppb	09:30:53
2	Be 313.107†	-4277.7	295.8	0.1539 ug/L	0.1539 ppb	09:30:33
2	Cd 226.502†	2365.1	2363.1	7.7297 ug/L	7.7297 ppb	09:30:53
2	Co 228.616†	534.8	534.5	12.250 ug/L	12.250 ppb	09:30:53
2	Cr 267.716†	-417.7	-448.5	31.931 ug/L	31.931 ppb	09:30:53
2	Cu 324.752†	-1253.2	-5703.1	-0.9229 ug/L	-0.9229 ppb	09:30:33
2	Mn 257.610†	-30061.7	-28752.5	-9.7801 ug/L	-9.7801 ppb	09:30:33
2	Mo 202.031†	-193.9	-191.8	6.7706 ug/L	6.7706 ppb	09:30:33
2	Ni 231.604†	146.8	64.4	2.6940 ug/L	2.6940 ppb	09:30:53
2	P 214.914†	532.6	352.1	51.631 ug/L	51.631 ppb	09:30:53
2	Pb 220.353†	156.4	191.0	3.6022 ug/L	3.6022 ppb	09:30:53
2	S 181.975 Axial†	21.1	-1.5	-3.5073 ug/L	-3.5073 ppb	09:30:53
2	Sb 206.836†	16.4	-4.3	-6.7928 ug/L	-6.7928 ppb	09:30:53
2	Se 196.026†	-1440.4	-1341.0	-512.14 ug/L	-512.14 ppb	09:30:53
2	Si 251.611†	-171.5	-689.5	-31.510 ug/L	-31.510 ppb	09:30:33
2	Sn 189.927†	-16.1	-20.8	-4.1458 ug/L	-4.1458 ppb	09:30:53
2	Ti 334.940†	-726.4	101.0	0.1506 ug/L	0.1506 ppb	09:30:53
2	Tl 190.801†	-17.8	6.2	2.6600 ug/L	2.6600 ppb	09:30:53
2	U 409.014†	537.5	1687.1	11.284 ug/L	11.284 ppb	09:30:33
2	V 292.402†	4676.3	5564.8	-0.8153 ug/L	-0.8153 ppb	09:30:33
2	Zn 213.857†	3293.2	2648.5	-14.905 ug/L	-14.905 ppb	09:30:53
2	SiO2†	-219.8	-746.1	-73.390 ug/L	-73.390 ppb	09:31:30
3	Sc Radial	3444.1	3444.1	104 %		09:30:01
3	Y RADIAL	3452.3	3452.3	103.8 %		09:30:01

3	Al 396.153Radial†	-99.0	-8.8	-9.7271 ug/L	-9.7271 ppb	09:30:01
3	Ca 317.933Radial†	20.1	7.2	22.670 ug/L	22.670 ppb	09:30:01
3	Fe 238.204 Radial†	14520.1	13969.0	379250 ug/L	379250 ppb	09:29:41
3	K 766.490 Radial†	2722.9	76.3	9.3006 ug/L	9.3006 ppb	09:29:41
3	Mg 279.077 IEC†	8.7	7.5	190.93 ug/L	190.93 ppb	09:30:01
3	Na 589.592 Radial†	-526.7	195.8	41.864 ug/L	41.864 ppb	09:29:41
3	Sr 421.552†	65.6	46.7	0.4126 ug/L	0.4126 ppb	09:29:41
3	Sc 361.383	716727.9	716727.9	106.63 %		09:30:59
3	Y 371.029	605566.8	605566.8	106.17 %		09:30:59
3	Ag 328.068†	-20479.1	-19320.6	3.2686 ug/L	3.2686 ppb	09:30:59
3	As 188.979†	-129.6	-108.6	10.788 ug/L	10.788 ppb	09:31:19
3	B 249.677†	1773.3	1615.5	-9.2047 ug/L	-9.2047 ppb	09:30:59
3	Ba 233.527†	-1345.4	-1271.9	-3.3199 ug/L	-3.3199 ppb	09:31:19
3	Be 313.107†	-4225.6	349.1	0.1815 ug/L	0.1815 ppb	09:30:59
3	Cd 226.502†	2352.3	2348.7	6.9355 ug/L	6.9355 ppb	09:31:19
3	Co 228.616†	556.9	554.6	12.841 ug/L	12.841 ppb	09:31:19
3	Cr 267.716†	-416.9	-447.3	32.476 ug/L	32.476 ppb	09:31:19
3	Cu 324.752†	-1286.3	-5732.8	-0.7713 ug/L	-0.7713 ppb	09:30:59
3	Mn 257.610†	-30251.6	-28899.9	-9.5365 ug/L	-9.5365 ppb	09:30:59
3	Mo 202.031†	-214.2	-210.7	4.9642 ug/L	4.9642 ppb	09:30:59
3	Ni 231.604†	147.0	64.6	2.6986 ug/L	2.6986 ppb	09:31:19
3	P 214.914†	534.8	353.6	49.150 ug/L	49.150 ppb	09:31:19
3	Pb 220.353†	172.9	206.3	6.3128 ug/L	6.3128 ppb	09:31:19
3	S 181.975 Axial†	29.6	6.4	14.764 ug/L	14.764 ppb	09:31:19
3	Sb 206.836†	14.1	-6.5	-7.9790 ug/L	-7.9790 ppb	09:31:19
3	Se 196.026†	-1433.1	-1332.6	-489.50 ug/L	-489.50 ppb	09:31:19
3	Si 251.611†	-145.0	-664.5	-30.331 ug/L	-30.331 ppb	09:30:59
3	Sn 189.927†	-11.3	-16.2	-2.7006 ug/L	-2.7006 ppb	09:31:19
3	Ti 334.940†	-735.9	92.8	0.1164 ug/L	0.1164 ppb	09:31:19
3	Tl 190.801†	-26.0	-1.5	-1.1334 ug/L	-1.1334 ppb	09:31:19
3	U 409.014†	755.0	1890.5	17.220 ug/L	17.220 ppb	09:30:59
3	V 292.402†	4718.6	5599.7	-1.2158 ug/L	-1.2158 ppb	09:30:59
3	Zn 213.857†	3325.0	2675.0	-15.238 ug/L	-15.238 ppb	09:31:19
3	SiO2†	-207.9	-734.8	-72.208 ug/L	-72.208 ppb	09:31:35

Mean Data: LRI

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	713926.4	106.21 %	0.624			0.59%
Sc Radial	3392.4	102 %	2.1			2.03%
Y 371.029	603675.8	105.83 %	0.545			0.51%
Y RADIAL	3409.2	102.5 %	1.82			1.78%
Ag 328.068†	-19204.6	4.0568 ug/L	1.24318	4.0568 ppb	1.24318	30.64%
Al 396.153Radial†	-9.9	-11.102 ug/L	3.3119	-11.102 ppb	3.3119	29.83%
As 188.979†	-104.7	13.693 ug/L	2.9596	13.693 ppb	2.9596	21.61%
B 249.677†	1543.2	-11.602 ug/L	2.4592	-11.602 ppb	2.4592	21.20%
Ba 233.527†	-1275.0	-3.3472 ug/L	0.22420	-3.3472 ppb	0.22420	6.70%
Be 313.107†	279.6	0.1455 ug/L	0.04084	0.1455 ppb	0.04084	28.07%
Ca 317.933Radial†	5.4	17.027 ug/L	4.9282	17.027 ppb	4.9282	28.94%
Cd 226.502†	2348.1	6.8890 ug/L	0.86484	6.8890 ppb	0.86484	12.55%
Co 228.616†	546.5	12.570 ug/L	0.2987	12.570 ppb	0.2987	2.38%
Cr 267.716†	-452.0	32.431 ug/L	0.4785	32.431 ppb	0.4785	1.48%
Cu 324.752†	-5692.7	-0.6066 ug/L	0.42349	-0.6066 ppb	0.42349	69.82%
Fe 238.204 Radial†	13981.1	379570 ug/L	5470.4	379570 ppb	5470.4	1.44%
K 766.490 Radial†	100.5	12.250 ug/L	12.2046	12.250 ppb	12.2046	99.63%
Mg 279.077 IEC†	6.6	115.61 ug/L	101.998	115.61 ppb	101.998	88.22%
Mn 257.610†	-28911.5	-9.5201 ug/L	0.26857	-9.5201 ppb	0.26857	2.82%
Mo 202.031†	-196.3	6.6597 ug/L	1.64282	6.6597 ppb	1.64282	24.67%
Na 589.592 Radial†	141.7	30.309 ug/L	11.6204	30.309 ppb	11.6204	38.34%
Ni 231.604†	61.9	2.5858 ug/L	0.19151	2.5858 ppb	0.19151	7.41%
P 214.914†	350.5	45.773 ug/L	8.0935	45.773 ppb	8.0935	17.68%
Pb 220.353†	201.4	5.2706 ug/L	1.45976	5.2706 ppb	1.45976	27.70%
S 181.975 Axial†	4.2	9.6125 ug/L	11.44904	9.6125 ppb	11.44904	119.11%
Sb 206.836†	-2.4	-5.8583 ug/L	2.71154	-5.8583 ppb	2.71154	46.29%
Se 196.026†	-1339.0	-495.84 ug/L	14.226	-495.84 ppb	14.226	2.87%
Si 251.611†	-675.6	-30.864 ug/L	0.5979	-30.864 ppb	0.5979	1.94%
Sn 189.927†	-18.2	-3.3159 ug/L	0.74612	-3.3159 ppb	0.74612	22.50%
Sr 421.552†	73.5	0.6488 ug/L	0.20694	0.6488 ppb	0.20694	31.90%
Ti 334.940†	102.4	0.1423 ug/L	0.02293	0.1423 ppb	0.02293	16.11%
Tl 190.801†	3.9	1.5336 ug/L	2.31895	1.5336 ppb	2.31895	151.21%

U 409.014†	1799.3	14.268 ug/L	2.9680	14.268 ppb	2.9680	20.80%
V 292.402†	5567.5	-1.5592 ug/L	0.96261	-1.5592 ppb	0.96261	61.74%
Zn 213.857†	2654.9	-15.599 ug/L	0.9286	-15.599 ppb	0.9286	5.95%
SiO2†	-675.6	-66.386 ug/L	11.1224	-66.386 ppb	11.1224	16.75%

Sequence No.: 2
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 4/5/2010 09:33:46
 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	3389.0	3389.0	102 %		09:35:58
1	Y RADIAL	3387.1	3387.1	101.9 %		09:35:58
1	Al 396.153Radial†	4106.2	4102.8	5046.5 ug/L	5046.5 ppb	09:35:38
1	Ca 317.933Radial†	1676.3	1627.5	5134.2 ug/L	5134.2 ppb	09:35:58
1	Fe 238.204 Radial†	193.2	182.5	4970.3 ug/L	4970.3 ppb	09:35:58
1	K 766.490 Radial†	44570.8	41050.7	4986.8 ug/L	4986.8 ppb	09:35:38
1	Mg 279.077 IEC†	69.2	66.9	5218.9 ug/L	5218.9 ppb	09:35:58
1	Na 589.592 Radial†	41519.2	41313.0	8833.6 ug/L	8833.6 ppb	09:35:38
1	Sr 421.552†	56309.9	55060.9	486.21 ug/L	486.21 ppb	09:35:38
1	Sc 361.383	711547.6	711547.6	105.86 %		09:36:55
1	Y 371.029	596192.6	596192.6	104.52 %		09:36:55
1	Ag 328.068†	89473.2	84407.9	501.92 ug/L	501.92 ppb	09:37:00
1	As 188.979†	719.3	692.5	502.12 ug/L	502.12 ppb	09:37:20
1	B 249.677†	16107.4	15168.5	490.13 ug/L	490.13 ppb	09:37:00
1	Ba 233.527†	45576.3	43044.3	508.13 ug/L	508.13 ppb	09:37:00
1	Be 313.107†	1017828.7	965821.5	502.06 ug/L	502.06 ppb	09:36:55
1	Cd 226.502†	27285.5	25918.3	508.58 ug/L	508.58 ppb	09:37:00
1	Co 228.616†	15748.3	14909.3	494.16 ug/L	494.16 ppb	09:37:20
1	Cr 267.716†	30878.6	29113.6	505.82 ug/L	505.82 ppb	09:37:00
1	Cu 324.752†	150331.8	137487.0	499.10 ug/L	499.10 ppb	09:37:00
1	Mn 257.610†	324610.9	306120.5	497.80 ug/L	497.80 ppb	09:37:00
1	Mo 202.031†	4586.1	4322.5	502.54 ug/L	502.54 ppb	09:37:20
1	Ni 231.604†	12886.7	12100.3	507.64 ug/L	507.64 ppb	09:37:00
1	P 214.914†	2822.9	2518.8	2399.9 ug/L	2399.9 ppb	09:37:20
1	Pb 220.353†	2520.0	2424.7	509.79 ug/L	509.79 ppb	09:37:20
1	S 181.975 Axial†	480.3	432.4	999.82 ug/L	999.82 ppb	09:37:20
1	Sb 206.836†	1021.1	944.9	502.23 ug/L	502.23 ppb	09:37:20
1	Se 196.026†	466.2	451.8	523.76 ug/L	523.76 ppb	09:37:20
1	Si 251.611†	57470.5	53762.0	2472.2 ug/L	2472.2 ppb	09:37:00
1	Sn 189.927†	1698.5	1598.8	501.15 ug/L	501.15 ppb	09:37:20
1	Ti 334.940†	259054.3	245503.0	489.57 ug/L	489.57 ppb	09:37:00
1	Tl 190.801†	1057.4	1021.7	508.02 ug/L	508.02 ppb	09:37:20
1	U 409.014†	15202.8	15544.0	495.23 ug/L	495.23 ppb	09:37:00
1	V 292.402†	53510.9	51724.4	507.69 ug/L	507.69 ppb	09:37:00
1	Zn 213.857†	35033.6	32651.7	501.97 ug/L	501.97 ppb	09:37:00
1	SiO2†	57458.1	53739.0	5316.2 ug/L	5316.2 ppb	09:38:27
2	Sc Radial	3437.9	3437.9	104 %		09:36:23
2	Y RADIAL	3433.1	3433.1	103.3 %		09:36:23
2	Al 396.153Radial†	4191.3	4127.7	5077.4 ug/L	5077.4 ppb	09:36:03
2	Ca 317.933Radial†	1698.9	1625.9	5129.4 ug/L	5129.4 ppb	09:36:23
2	Fe 238.204 Radial†	195.7	182.3	4963.5 ug/L	4963.5 ppb	09:36:23
2	K 766.490 Radial†	45778.6	41595.2	5053.0 ug/L	5053.0 ppb	09:36:03
2	Mg 279.077 IEC†	67.9	64.7	5051.8 ug/L	5051.8 ppb	09:36:23
2	Na 589.592 Radial†	43228.9	42384.0	9062.5 ug/L	9062.5 ppb	09:36:03
2	Sr 421.552†	57839.4	55752.3	492.31 ug/L	492.31 ppb	09:36:03
2	Sc 361.383	723232.7	723232.7	107.60 %		09:37:26
2	Y 371.029	606036.2	606036.2	106.25 %		09:37:26
2	Ag 328.068†	89859.8	83401.6	495.96 ug/L	495.96 ppb	09:37:31
2	As 188.979†	734.6	695.7	504.41 ug/L	504.41 ppb	09:37:51
2	B 249.677†	16326.1	15126.0	488.75 ug/L	488.75 ppb	09:37:31
2	Ba 233.527†	45555.7	42329.5	499.70 ug/L	499.70 ppb	09:37:31
2	Be 313.107†	1035580.7	966785.4	502.54 ug/L	502.54 ppb	09:37:26
2	Cd 226.502†	27248.9	25467.8	499.74 ug/L	499.74 ppb	09:37:31
2	Co 228.616†	16000.2	14903.0	493.96 ug/L	493.96 ppb	09:37:51
2	Cr 267.716†	30859.0	28624.1	497.33 ug/L	497.33 ppb	09:37:31
2	Cu 324.752†	151548.0	136322.9	494.88 ug/L	494.88 ppb	09:37:31
2	Mn 257.610†	324977.6	301506.9	490.30 ug/L	490.30 ppb	09:37:31
2	Mo 202.031†	4657.5	4318.9	502.11 ug/L	502.11 ppb	09:37:51
2	Ni 231.604†	12972.9	11983.7	502.75 ug/L	502.75 ppb	09:37:31

2	P 214.914†	2875.9	2524.9	2406.8 ug/L	2406.8 ppb	09:37:51
2	Pb 220.353†	2548.3	2412.5	507.25 ug/L	507.25 ppb	09:37:51
2	S 181.975 Axial†	486.7	431.0	996.68 ug/L	996.68 ppb	09:37:51
2	Sb 206.836†	1057.9	963.5	511.73 ug/L	511.73 ppb	09:37:51
2	Se 196.026†	469.4	447.6	519.07 ug/L	519.07 ppb	09:37:51
2	Si 251.611†	57679.0	53078.6	2440.7 ug/L	2440.7 ppb	09:37:31
2	Sn 189.927†	1716.7	1589.9	498.35 ug/L	498.35 ppb	09:37:51
2	Ti 334.940†	260264.4	242673.8	483.95 ug/L	483.95 ppb	09:37:31
2	Tl 190.801†	1080.2	1026.8	510.47 ug/L	510.47 ppb	09:37:51
2	U 409.014†	15189.6	15299.8	487.44 ug/L	487.44 ppb	09:37:31
2	V 292.402†	53700.6	51084.0	501.47 ug/L	501.47 ppb	09:37:31
2	Zn 213.857†	35145.3	32220.9	495.32 ug/L	495.32 ppb	09:37:31
2	SiO2†	59256.5	54533.5	5395.0 ug/L	5395.0 ppb	09:38:32
3	Sc Radial	3402.5	3402.5	103 %		09:36:48
3	Y RADIAL	3385.2	3385.2	101.8 %		09:36:48
3	Al 396.153Radial†	4153.6	4133.1	5084.5 ug/L	5084.5 ppb	09:36:28
3	Ca 317.933Radial†	1681.9	1626.4	5130.9 ug/L	5130.9 ppb	09:36:48
3	Fe 238.204 Radial†	194.4	183.0	4981.9 ug/L	4981.9 ppb	09:36:48
3	K 766.490 Radial†	44982.4	41279.5	5014.6 ug/L	5014.6 ppb	09:36:28
3	Mg 279.077 IEC†	67.0	64.4	5031.0 ug/L	5031.0 ppb	09:36:48
3	Na 589.592 Radial†	42442.8	42052.5	8991.7 ug/L	8991.7 ppb	09:36:28
3	Sr 421.552†	56949.8	55466.9	489.79 ug/L	489.79 ppb	09:36:28
3	Sc 361.383	725737.0	725737.0	107.97 %		09:37:57
3	Y 371.029	608170.8	608170.8	106.62 %		09:37:57
3	Ag 328.068†	90222.7	83449.6	496.23 ug/L	496.23 ppb	09:38:02
3	As 188.979†	723.4	683.0	495.28 ug/L	495.28 ppb	09:38:22
3	B 249.677†	16313.1	15061.5	486.68 ug/L	486.68 ppb	09:38:02
3	Ba 233.527†	45512.6	42143.5	497.50 ug/L	497.50 ppb	09:38:02
3	Be 313.107†	1039513.1	967106.4	502.71 ug/L	502.71 ppb	09:37:57
3	Cd 226.502†	27081.7	25225.6	494.98 ug/L	494.98 ppb	09:38:02
3	Co 228.616†	15819.5	14684.4	486.70 ug/L	486.70 ppb	09:38:22
3	Cr 267.716†	30710.3	28387.5	493.22 ug/L	493.22 ppb	09:38:02
3	Cu 324.752†	153137.2	137308.8	498.45 ug/L	498.45 ppb	09:38:02
3	Mn 257.610†	324705.3	300212.5	488.20 ug/L	488.20 ppb	09:38:02
3	Mo 202.031†	4591.7	4243.0	493.31 ug/L	493.31 ppb	09:38:22
3	Ni 231.604†	12865.5	11842.6	496.83 ug/L	496.83 ppb	09:38:02
3	P 214.914†	2828.9	2472.2	2353.7 ug/L	2353.7 ppb	09:38:22
3	Pb 220.353†	2528.5	2386.0	501.67 ug/L	501.67 ppb	09:38:22
3	S 181.975 Axial†	473.7	417.4	965.21 ug/L	965.21 ppb	09:38:22
3	Sb 206.836†	1039.8	943.4	501.10 ug/L	501.10 ppb	09:38:22
3	Se 196.026†	455.9	433.6	503.40 ug/L	503.40 ppb	09:38:22
3	Si 251.611†	58025.2	53214.3	2447.0 ug/L	2447.0 ppb	09:38:02
3	Sn 189.927†	1698.6	1567.7	491.36 ug/L	491.36 ppb	09:38:22
3	Ti 334.940†	260637.5	242184.7	482.97 ug/L	482.97 ppb	09:38:02
3	Tl 190.801†	1062.4	1006.8	500.61 ug/L	500.61 ppb	09:38:22
3	U 409.014†	15416.0	15460.7	492.60 ug/L	492.60 ppb	09:38:02
3	V 292.402†	53488.1	50714.9	497.78 ug/L	497.78 ppb	09:38:02
3	Zn 213.857†	35105.1	32071.0	493.02 ug/L	493.02 ppb	09:38:02
3	SiO2†	57334.4	52563.2	5199.9 ug/L	5199.9 ppb	09:38:37

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	720172.4	107.14 %	1.127			1.05%
Sc Radial	3409.8	103 %	0.8			0.74%
Y 371.029	603466.5	105.80 %	1.120			1.06%
Y RADIAL	3401.8	102.3 %	0.82			0.80%
Ag 328.068†	83753.0	498.04 ug/L	3.370	498.04 ppb	3.370	0.68%
QC value within limits for Ag 328.068 Recovery = 99.61%						
Al 396.153Radial†	4121.2	5069.5 ug/L	20.17	5069.5 ppb	20.17	0.40%
QC value within limits for Al 396.153Radial Recovery = 101.39%						
As 188.979†	690.4	500.60 ug/L	4.752	500.60 ppb	4.752	0.95%
QC value within limits for As 188.979 Recovery = 100.12%						
B 249.677†	15118.7	488.52 ug/L	1.738	488.52 ppb	1.738	0.36%
QC value within limits for B 249.677 Recovery = 97.70%						
Ba 233.527†	42505.8	501.78 ug/L	5.611	501.78 ppb	5.611	1.12%
QC value within limits for Ba 233.527 Recovery = 100.36%						
Be 313.107†	966571.1	502.44 ug/L	0.339	502.44 ppb	0.339	0.07%
QC value within limits for Be 313.107 Recovery = 100.49%						
Ca 317.933Radial†	1626.6	5131.5 ug/L	2.44	5131.5 ppb	2.44	0.05%

QC value within limits for Ca 317.933 Radial Recovery = 102.63%

Cd 226.502†	25537.2	501.10 ug/L	6.904	501.10 ppb	6.904	1.38%
QC value within limits for Cd 226.502 Recovery = 100.22%						
Co 228.616†	14832.3	491.61 ug/L	4.252	491.61 ppb	4.252	0.86%
QC value within limits for Co 228.616 Recovery = 98.32%						
Cr 267.716†	28708.4	498.79 ug/L	6.427	498.79 ppb	6.427	1.29%
QC value within limits for Cr 267.716 Recovery = 99.76%						
Cu 324.752†	137039.6	497.47 ug/L	2.274	497.47 ppb	2.274	0.46%
QC value within limits for Cu 324.752 Recovery = 99.49%						
Fe 238.204 Radial†	182.6	4971.9 ug/L	9.30	4971.9 ppb	9.30	0.19%
QC value within limits for Fe 238.204 Radial Recovery = 99.44%						
K 766.490 Radial†	41308.5	5018.1 ug/L	33.21	5018.1 ppb	33.21	0.66%
QC value within limits for K 766.490 Radial Recovery = 100.36%						
Mg 279.077 IEC†	65.3	5100.6 ug/L	102.98	5100.6 ppb	102.98	2.02%
QC value within limits for Mg 279.077 IEC Recovery = 102.01%						
Mn 257.610†	302613.3	492.10 ug/L	5.043	492.10 ppb	5.043	1.02%
QC value within limits for Mn 257.610 Recovery = 98.42%						
Mo 202.031†	4294.8	499.32 ug/L	5.211	499.32 ppb	5.211	1.04%
QC value within limits for Mo 202.031 Recovery = 99.86%						
Na 589.592 Radial†	41916.5	8962.6 ug/L	117.23	8962.6 ppb	117.23	1.31%
QC value less than the lower limit for Na 589.592 Radial Recovery = 89.63%						
Ni 231.604†	11975.6	502.41 ug/L	5.414	502.41 ppb	5.414	1.08%
QC value within limits for Ni 231.604 Recovery = 100.48%						
P 214.914†	2505.3	2386.8 ug/L	28.84	2386.8 ppb	28.84	1.21%
QC value within limits for P 214.914 Recovery = 95.47%						
Pb 220.353†	2407.7	506.23 ug/L	4.153	506.23 ppb	4.153	0.82%
QC value within limits for Pb 220.353 Recovery = 101.25%						
S 181.975 Axial†	426.9	987.24 ug/L	19.143	987.24 ppb	19.143	1.94%
QC value within limits for S 181.975 Axial Recovery = 98.72%						
Sb 206.836†	950.6	505.02 ug/L	5.838	505.02 ppb	5.838	1.16%
QC value within limits for Sb 206.836 Recovery = 101.00%						
Se 196.026†	444.3	515.41 ug/L	10.666	515.41 ppb	10.666	2.07%
QC value within limits for Se 196.026 Recovery = 103.08%						
Si 251.611†	53351.6	2453.3 ug/L	16.66	2453.3 ppb	16.66	0.68%
QC value within limits for Si 251.611 Recovery = 98.13%						
Sn 189.927†	1585.4	496.95 ug/L	5.042	496.95 ppb	5.042	1.01%
QC value within limits for Sn 189.927 Recovery = 99.39%						
Sr 421.552†	55426.7	489.44 ug/L	3.068	489.44 ppb	3.068	0.63%
QC value within limits for Sr 421.552 Recovery = 97.89%						
Ti 334.940†	243453.8	485.50 ug/L	3.562	485.50 ppb	3.562	0.73%
QC value within limits for Ti 334.940 Recovery = 97.10%						
Tl 190.801†	1018.5	506.36 ug/L	5.136	506.36 ppb	5.136	1.01%
QC value within limits for Tl 190.801 Recovery = 101.27%						
U 409.014†	15434.9	491.76 ug/L	3.961	491.76 ppb	3.961	0.81%
QC value within limits for U 409.014 Recovery = 98.35%						
V 292.402†	51174.4	502.31 ug/L	5.006	502.31 ppb	5.006	1.00%
QC value within limits for V 292.402 Recovery = 100.46%						
Zn 213.857†	32314.5	496.77 ug/L	4.645	496.77 ppb	4.645	0.93%
QC value within limits for Zn 213.857 Recovery = 99.35%						
SiO2†	53611.9	5303.7 ug/L	98.19	5303.7 ppb	98.19	1.85%
QC value within limits for SiO2 Recovery = 99.18%						

QC Failed. Continue with analysis.

Sequence No.: 3

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/5/2010 09:40:48

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	3466.1	3466.1	105 %		09:43:00
1	Y RADIAL	3482.8	3482.8	104.8 %		09:43:00
1	Al 396.153Radial†	-72.2	17.4	21.509 ug/L	21.509 ppb	09:43:00
1	Ca 317.933Radial†	23.0	9.9	31.103 ug/L	31.103 ppb	09:43:00
1	Fe 238.204 Radial†	5.6	-1.1	-28.564 ug/L	-28.564 ppb	09:43:00
1	K 766.490 Radial†	2689.9	28.1	3.3914 ug/L	3.3914 ppb	09:42:40
1	Mg 279.077 IEC†	-0.7	-1.5	-115.13 ug/L	-115.13 ppb	09:43:00
1	Na 589.592 Radial†	-590.5	138.0	29.497 ug/L	29.497 ppb	09:42:40
1	Sr 421.552†	55.1	36.3	0.3200 ug/L	0.3200 ppb	09:42:40
1	Sc 361.383	719945.7	719945.7	107.11 %		09:43:57
1	Y 371.029	611135.2	611135.2	107.14 %		09:43:57
1	Ag 328.068†	196.9	69.4	0.3976 ug/L	0.3976 ppb	09:44:02
1	As 188.979†	-11.3	2.4	1.7124 ug/L	1.7124 ppb	09:44:22
1	B 249.677†	114.3	59.1	1.9225 ug/L	1.9225 ppb	09:44:02
1	Ba 233.527†	31.5	19.2	0.2271 ug/L	0.2271 ppb	09:44:22
1	Be 313.107†	-4239.0	354.3	0.1843 ug/L	0.1843 ppb	09:44:02
1	Cd 226.502†	-139.9	12.0	0.2389 ug/L	0.2389 ppb	09:44:22
1	Co 228.616†	-21.0	12.8	0.4263 ug/L	0.4263 ppb	09:44:22
1	Cr 267.716†	82.5	20.7	0.3537 ug/L	0.3537 ppb	09:44:22
1	Cu 324.752†	4680.9	-156.1	-0.5723 ug/L	-0.5723 ppb	09:44:02
1	Mn 257.610†	368.9	-184.3	-0.2977 ug/L	-0.2977 ppb	09:44:22
1	Mo 202.031†	19.2	8.1	0.9424 ug/L	0.9424 ppb	09:44:22
1	Ni 231.604†	75.1	-3.2	-0.1345 ug/L	-0.1345 ppb	09:44:22
1	P 214.914†	155.3	-2.9	-2.7325 ug/L	-2.7325 ppb	09:44:22
1	Pb 220.353†	-19.1	26.3	5.5243 ug/L	5.5243 ppb	09:44:22
1	S 181.975 Axial†	23.5	0.6	1.2931 ug/L	1.2931 ppb	09:44:22
1	Sb 206.836†	21.8	0.7	0.3935 ug/L	0.3935 ppb	09:44:22
1	Se 196.026†	-12.5	-0.3	-0.4463 ug/L	-0.4463 ppb	09:44:22
1	Si 251.611†	456.7	-102.1	-4.7182 ug/L	-4.7182 ppb	09:44:22
1	Sn 189.927†	13.8	7.2	2.2614 ug/L	2.2614 ppb	09:44:22
1	Ti 334.940†	-717.6	113.0	0.2357 ug/L	0.2357 ppb	09:44:02
1	Tl 190.801†	-21.3	3.0	1.4741 ug/L	1.4741 ppb	09:44:22
1	U 409.014†	-1026.9	223.8	7.1557 ug/L	7.1557 ppb	09:43:57
1	V 292.402†	-1179.0	73.6	0.7418 ug/L	0.7418 ppb	09:44:02
1	Zn 213.857†	483.3	7.9	0.1285 ug/L	0.1285 ppb	09:44:22
1	SiO2†	469.0	-101.9	-10.134 ug/L	-10.134 ppb	09:45:43
2	Sc Radial	3481.8	3481.8	105 %		09:43:25
2	Y RADIAL	3495.4	3495.4	105.1 %		09:43:25
2	Al 396.153Radial†	-78.0	12.2	15.149 ug/L	15.149 ppb	09:43:25
2	Ca 317.933Radial†	22.3	9.1	28.706 ug/L	28.706 ppb	09:43:25
2	Fe 238.204 Radial†	3.7	-2.8	-76.720 ug/L	-76.720 ppb	09:43:25
2	K 766.490 Radial†	2826.6	146.5	17.802 ug/L	17.802 ppb	09:43:05
2	Mg 279.077 IEC†	2.0	1.1	85.491 ug/L	85.491 ppb	09:43:25
2	Na 589.592 Radial†	-597.2	134.1	28.670 ug/L	28.670 ppb	09:43:05
2	Sr 421.552†	71.1	51.3	0.4529 ug/L	0.4529 ppb	09:43:05
2	Sc 361.383	710331.7	710331.7	105.68 %		09:44:27
2	Y 371.029	603009.2	603009.2	105.72 %		09:44:27
2	Ag 328.068†	184.8	60.4	0.3315 ug/L	0.3315 ppb	09:44:32
2	As 188.979†	-12.5	1.2	0.8315 ug/L	0.8315 ppb	09:44:52
2	B 249.677†	141.2	86.0	2.8026 ug/L	2.8026 ppb	09:44:32
2	Ba 233.527†	28.2	16.5	0.1938 ug/L	0.1938 ppb	09:44:52
2	Be 313.107†	-4359.2	187.0	0.0974 ug/L	0.0974 ppb	09:44:32
2	Cd 226.502†	-126.0	23.3	0.4665 ug/L	0.4665 ppb	09:44:52
2	Co 228.616†	-19.9	13.6	0.4495 ug/L	0.4495 ppb	09:44:52
2	Cr 267.716†	62.4	2.7	0.0374 ug/L	0.0374 ppb	09:44:52
2	Cu 324.752†	4667.8	-109.4	-0.4047 ug/L	-0.4047 ppb	09:44:32
2	Mn 257.610†	347.6	-199.9	-0.3359 ug/L	-0.3359 ppb	09:44:52
2	Mo 202.031†	8.2	-2.1	-0.2442 ug/L	-0.2442 ppb	09:44:52
2	Ni 231.604†	66.8	-10.1	-0.4251 ug/L	-0.4251 ppb	09:44:52

2	P 214.914†	137.4	-17.9	-17.647 ug/L	-17.647 ppb	09:44:52
2	Pb 220.353†	-31.2	14.6	3.0695 ug/L	3.0695 ppb	09:44:52
2	S 181.975 Axial†	22.0	-0.5	-1.2083 ug/L	-1.2083 ppb	09:44:52
2	Sb 206.836†	16.7	-3.9	-2.0212 ug/L	-2.0212 ppb	09:44:52
2	Se 196.026†	-12.4	-0.4	-0.6616 ug/L	-0.6616 ppb	09:44:52
2	Si 251.611†	454.0	-98.9	-4.5544 ug/L	-4.5544 ppb	09:44:52
2	Sn 189.927†	6.1	0.1	0.0369 ug/L	0.0369 ppb	09:44:52
2	Ti 334.940†	-724.8	97.1	0.1877 ug/L	0.1877 ppb	09:44:32
2	Tl 190.801†	-25.1	-0.9	-0.4338 ug/L	-0.4338 ppb	09:44:52
2	U 409.014†	-1038.8	199.5	6.3868 ug/L	6.3868 ppb	09:44:27
2	V 292.402†	-1134.4	101.0	0.9993 ug/L	0.9993 ppb	09:44:32
2	Zn 213.857†	474.7	5.8	0.1052 ug/L	0.1052 ppb	09:44:52
2	SiO2†	473.9	-91.3	-9.0502 ug/L	-9.0502 ppb	09:46:03
3	Sc Radial	3525.0	3525.0	106 %		09:43:50
3	Y RADIAL	3540.5	3540.5	106.5 %		09:43:50
3	Al 396.153Radial†	-84.0	7.5	9.2529 ug/L	9.2529 ppb	09:43:50
3	Ca 317.933Radial†	18.7	5.4	17.169 ug/L	17.169 ppb	09:43:50
3	Fe 238.204 Radial†	6.0	-0.7	-20.225 ug/L	-20.225 ppb	09:43:50
3	K 766.490 Radial†	2587.1	-111.7	-13.601 ug/L	-13.601 ppb	09:43:30
3	Mg 279.077 IEC†	1.6	0.7	52.088 ug/L	52.088 ppb	09:43:50
3	Na 589.592 Radial†	-573.7	163.2	34.898 ug/L	34.898 ppb	09:43:30
3	Sr 421.552†	63.6	43.4	0.3831 ug/L	0.3831 ppb	09:43:30
3	Sc 361.383	715559.9	715559.9	106.45 %		09:44:57
3	Y 371.029	606956.9	606956.9	106.41 %		09:44:57
3	Ag 328.068†	72.0	-46.9	-0.2859 ug/L	-0.2859 ppb	09:45:02
3	As 188.979†	-21.6	-7.3	-5.2431 ug/L	-5.2431 ppb	09:45:22
3	B 249.677†	146.1	89.6	2.9090 ug/L	2.9090 ppb	09:45:02
3	Ba 233.527†	31.7	19.6	0.2308 ug/L	0.2308 ppb	09:45:22
3	Be 313.107†	-4349.3	226.4	0.1180 ug/L	0.1180 ppb	09:45:02
3	Cd 226.502†	-135.7	15.1	0.2984 ug/L	0.2984 ppb	09:45:22
3	Co 228.616†	-15.8	17.6	0.5817 ug/L	0.5817 ppb	09:45:22
3	Cr 267.716†	46.2	-13.0	-0.2289 ug/L	-0.2289 ppb	09:45:22
3	Cu 324.752†	4643.4	-164.6	-0.6005 ug/L	-0.6005 ppb	09:45:02
3	Mn 257.610†	353.6	-196.6	-0.3236 ug/L	-0.3236 ppb	09:45:22
3	Mo 202.031†	7.3	-2.9	-0.3403 ug/L	-0.3403 ppb	09:45:22
3	Ni 231.604†	80.5	2.3	0.0960 ug/L	0.0960 ppb	09:45:22
3	P 214.914†	148.0	-8.9	-8.6831 ug/L	-8.6831 ppb	09:45:22
3	Pb 220.353†	-14.8	30.2	6.3368 ug/L	6.3368 ppb	09:45:22
3	S 181.975 Axial†	22.5	-0.2	-0.3713 ug/L	-0.3713 ppb	09:45:22
3	Sb 206.836†	19.3	-1.6	-0.8017 ug/L	-0.8017 ppb	09:45:22
3	Se 196.026†	-12.6	-0.5	-0.6346 ug/L	-0.6346 ppb	09:45:22
3	Si 251.611†	457.6	-98.7	-4.5447 ug/L	-4.5447 ppb	09:45:22
3	Sn 189.927†	11.0	4.6	1.4566 ug/L	1.4566 ppb	09:45:22
3	Ti 334.940†	-693.5	131.4	0.2587 ug/L	0.2587 ppb	09:45:02
3	Tl 190.801†	-21.9	2.3	1.1221 ug/L	1.1221 ppb	09:45:22
3	U 409.014†	-1134.2	117.0	3.7432 ug/L	3.7432 ppb	09:44:57
3	V 292.402†	-1231.1	17.9	0.1796 ug/L	0.1796 ppb	09:45:02
3	Zn 213.857†	463.2	-8.2	-0.1241 ug/L	-0.1241 ppb	09:45:22
3	SiO2†	476.8	-91.9	-9.1035 ug/L	-9.1035 ppb	09:46:23

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	715279.1	106.41 %		0.716			0.67%
Sc Radial	3491.0	105 %		0.9			0.87%
Y 371.029	607033.8	106.42 %		0.712			0.67%
Y RADIAL	3506.3	105.5 %		0.91			0.87%
Ag 328.068†	27.6	0.1478 ug/L		0.37701	0.1478 ppb	0.37701	255.14%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	12.4	15.304 ug/L		6.1297	15.304 ppb	6.1297	40.05%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-1.2	-0.8997 ug/L		3.78717	-0.8997 ppb	3.78717	420.92%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	78.2	2.5447 ug/L		0.54147	2.5447 ppb	0.54147	21.28%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	18.4	0.2173 ug/L		0.02038	0.2173 ppb	0.02038	9.38%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	255.9	0.1332 ug/L		0.04538	0.1332 ppb	0.04538	34.06%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	8.1	25.659 ug/L		7.4498	25.659 ppb	7.4498	29.03%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	16.8	0.3346 ug/L	0.11804	0.3346 ppb	0.11804	35.28%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	14.6	0.4859 ug/L	0.08382	0.4859 ppb	0.08382	17.25%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	3.5	0.0541 ug/L	0.29163	0.0541 ppb	0.29163	539.24%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-143.4	-0.5258 ug/L	0.10586	-0.5258 ppb	0.10586	20.13%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-1.5	-41.836 ug/L	30.4967	-41.836 ppb	30.4967	72.90%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	21.0	2.5309 ug/L	15.71884	2.5309 ppb	15.71884	621.08%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.1	7.4826 ug/L	107.49213	7.4826 ppb	107.49213	>999.9%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-193.6	-0.3191 ug/L	0.01949	-0.3191 ppb	0.01949	6.11%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	1.1	0.1193 ug/L	0.71446	0.1193 ppb	0.71446	598.91%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	145.1	31.022 ug/L	3.3824	31.022 ppb	3.3824	10.90%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-3.7	-0.1545 ug/L	0.26108	-0.1545 ppb	0.26108	168.95%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-9.9	-9.6876 ug/L	7.50791	-9.6876 ppb	7.50791	77.50%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	23.7	4.9769 ug/L	1.70102	4.9769 ppb	1.70102	34.18%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-0.0	-0.0955 ug/L	1.27328	-0.0955 ppb	1.27328	>999.9%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-1.6	-0.8098 ug/L	1.20740	-0.8098 ppb	1.20740	149.10%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-0.4	-0.5808 ug/L	0.11726	-0.5808 ppb	0.11726	20.19%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-99.9	-4.6058 ug/L	0.09750	-4.6058 ppb	0.09750	2.12%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	4.0	1.2516 ug/L	1.12632	1.2516 ppb	1.12632	89.99%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	43.7	0.3854 ug/L	0.06646	0.3854 ppb	0.06646	17.25%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	113.8	0.2274 ug/L	0.03623	0.2274 ppb	0.03623	15.94%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	1.5	0.7208 ug/L	1.01528	0.7208 ppb	1.01528	140.85%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	180.1	5.7619 ug/L	1.79003	5.7619 ppb	1.79003	31.07%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	64.2	0.6402 ug/L	0.41916	0.6402 ppb	0.41916	65.47%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	1.8	0.0366 ug/L	0.13959	0.0366 ppb	0.13959	381.70%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	-95.0	-9.4293 ug/L	0.61101	-9.4293 ppb	0.61101	6.48%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 4
 Sample ID: 248198002|959127|5
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 38
 Date Collected: 4/5/2010 09:48:33
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 248198002|959127|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3617.8	3617.8	109 %		09:50:46
1	Y RADIAL	3723.8	3723.8	112.0 %		09:50:46
1	Al 396.153Radial†	8990.2	8323.7	10288 ug/L	10288 ppb	09:50:26
1	Ca 317.933Radial†	1848.9	1681.9	5306.1 ug/L	5306.1 ppb	09:50:46
1	Fe 238.204 Radial†	634.1	574.6	15599 ug/L	15599 ppb	09:50:46
1	K 766.490 Radial†	23047.9	18573.2	2256.7 ug/L	2256.7 ppb	09:50:26
1	Mg 279.077 IEC†	31.0	27.6	2136.0 ug/L	2136.0 ppb	09:50:46
1	Na 589.592 Radial†	2926.8	3384.4	723.64 ug/L	723.64 ppb	09:50:26
1	Sr 421.552†	4209.4	3840.5	33.876 ug/L	33.876 ppb	09:50:26
1	Sc 361.383	716150.4	716150.4	106.54 %		09:51:43
1	Y 371.029	624189.8	624189.8	109.43 %		09:51:43
1	Ag 328.068†	-711.3	-782.2	0.2321 ug/L	0.2321 ppb	09:51:43
1	As 188.979†	-19.7	-5.5	3.5611 ug/L	3.5611 ppb	09:52:03
1	B 249.677†	409.6	336.8	8.3880 ug/L	8.3880 ppb	09:51:43
1	Ba 233.527†	9487.5	8894.7	105.26 ug/L	105.26 ppb	09:51:43
1	Be 313.107†	-4149.1	417.7	1.2261 ug/L	1.2261 ppb	09:51:43
1	Cd 226.502†	-7.7	135.3	1.0469 ug/L	1.0469 ppb	09:52:03
1	Co 228.616†	104.9	130.9	3.2265 ug/L	3.2265 ppb	09:52:03
1	Cr 267.716†	735.5	634.0	12.683 ug/L	12.683 ppb	09:52:03
1	Cu 324.752†	16343.7	10813.6	40.093 ug/L	40.093 ppb	09:51:43
1	Mn 257.610†	325801.8	305267.4	497.59 ug/L	497.59 ppb	09:51:43
1	Mo 202.031†	16.9	6.0	1.9737 ug/L	1.9737 ppb	09:52:03
1	Ni 231.604†	315.6	222.9	9.3540 ug/L	9.3540 ppb	09:52:03
1	P 214.914†	548.9	367.3	346.21 ug/L	346.21 ppb	09:52:03
1	Pb 220.353†	106.8	144.4	31.379 ug/L	31.379 ppb	09:52:03
1	S 181.975 Axial†	162.8	131.5	302.36 ug/L	302.36 ppb	09:52:03
1	Sb 206.836†	21.2	0.2	-1.8988 ug/L	-1.8988 ppb	09:52:03
1	Se 196.026†	-73.3	-57.5	-20.252 ug/L	-20.252 ppb	09:52:03
1	Si 251.611†	153780.0	143808.7	6629.4 ug/L	6629.4 ppb	09:51:43
1	Sn 189.927†	-27.4	-31.4	-8.7704 ug/L	-8.7704 ppb	09:52:03
1	Ti 334.940†	236669.9	222920.3	445.20 ug/L	445.20 ppb	09:51:43
1	Tl 190.801†	-34.4	-9.5	1.3247 ug/L	1.3247 ppb	09:52:03
1	U 409.014†	-1927.5	-626.7	-21.838 ug/L	-21.838 ppb	09:51:43
1	V 292.402†	1100.9	2207.7	18.649 ug/L	18.649 ppb	09:51:43
1	Zn 213.857†	8897.9	7908.2	120.26 ug/L	120.26 ppb	09:51:43
1	SiO2†	153065.8	143127.2	14196 ug/L	14196 ppb	09:52:59
2	Sc Radial	3556.2	3556.2	107 %		09:51:11
2	Y RADIAL	3667.0	3667.0	110.3 %		09:51:11
2	Al 396.153Radial†	8783.1	8273.6	10226 ug/L	10226 ppb	09:50:51
2	Ca 317.933Radial†	1831.6	1695.2	5347.9 ug/L	5347.9 ppb	09:51:11
2	Fe 238.204 Radial†	625.2	576.4	15650 ug/L	15650 ppb	09:51:11
2	K 766.490 Radial†	22572.5	18496.3	2247.3 ug/L	2247.3 ppb	09:50:51
2	Mg 279.077 IEC†	29.7	26.9	2082.2 ug/L	2082.2 ppb	09:51:11
2	Na 589.592 Radial†	2663.4	3185.4	681.10 ug/L	681.10 ppb	09:50:51
2	Sr 421.552†	4040.5	3749.9	33.076 ug/L	33.076 ppb	09:50:51
2	Sc 361.383	729729.1	729729.1	108.56 %		09:52:08
2	Y 371.029	635253.9	635253.9	111.37 %		09:52:08
2	Ag 328.068†	-659.0	-721.5	0.6069 ug/L	0.6069 ppb	09:52:08
2	As 188.979†	-24.5	-9.6	0.6064 ug/L	0.6064 ppb	09:52:28
2	B 249.677†	472.1	387.2	10.014 ug/L	10.014 ppb	09:52:08
2	Ba 233.527†	9626.9	8857.4	104.83 ug/L	104.83 ppb	09:52:08
2	Be 313.107†	-4362.4	293.6	1.1599 ug/L	1.1599 ppb	09:52:08
2	Cd 226.502†	-16.0	127.8	0.8931 ug/L	0.8931 ppb	09:52:28
2	Co 228.616†	110.7	134.4	3.3427 ug/L	3.3427 ppb	09:52:28
2	Cr 267.716†	741.2	626.4	12.557 ug/L	12.557 ppb	09:52:28
2	Cu 324.752†	16755.8	10907.8	40.438 ug/L	40.438 ppb	09:52:08
2	Mn 257.610†	328983.4	302507.8	493.11 ug/L	493.11 ppb	09:52:08
2	Mo 202.031†	13.3	2.4	1.5627 ug/L	1.5627 ppb	09:52:28
2	Ni 231.604†	310.2	212.4	8.9138 ug/L	8.9138 ppb	09:52:28

2	P 214.914†	556.1	364.3	343.13 ug/L	343.13 ppb	09:52:28
2	Pb 220.353†	113.1	148.3	32.176 ug/L	32.176 ppb	09:52:28
2	S 181.975 Axial†	160.3	126.4	290.57 ug/L	290.57 ppb	09:52:28
2	Sb 206.836†	19.0	-2.2	-3.1727 ug/L	-3.1727 ppb	09:52:28
2	Se 196.026†	-73.3	-56.2	-18.719 ug/L	-18.719 ppb	09:52:28
2	Si 251.611†	156367.1	143506.0	6615.4 ug/L	6615.4 ppb	09:52:08
2	Sn 189.927†	-34.9	-37.8	-10.779 ug/L	-10.779 ppb	09:52:28
2	Ti 334.940†	240695.2	222494.6	444.37 ug/L	444.37 ppb	09:52:08
2	Tl 190.801†	-37.4	-11.6	0.2513 ug/L	0.2513 ppb	09:52:28
2	U 409.014†	-2036.4	-693.3	-23.972 ug/L	-23.972 ppb	09:52:08
2	V 292.402†	1107.1	2194.2	18.500 ug/L	18.500 ppb	09:52:08
2	Zn 213.857†	8987.6	7835.4	119.12 ug/L	119.12 ppb	09:52:08
2	SiO2†	152378.7	139820.9	13868 ug/L	13868 ppb	09:53:04
3	Sc Radial	3519.5	3519.5	106 %		09:51:36
3	Y RADIAL	3631.9	3631.9	109.2 %		09:51:36
3	Al 396.153Radial†	8683.6	8265.1	10215 ug/L	10215 ppb	09:51:16
3	Ca 317.933Radial†	1817.6	1699.8	5362.4 ug/L	5362.4 ppb	09:51:36
3	Fe 238.204 Radial†	622.7	580.1	15750 ug/L	15750 ppb	09:51:36
3	K 766.490 Radial†	22120.2	18289.4	2222.2 ug/L	2222.2 ppb	09:51:16
3	Mg 279.077 IEC†	32.8	30.1	2336.0 ug/L	2336.0 ppb	09:51:36
3	Na 589.592 Radial†	2602.3	3153.6	674.31 ug/L	674.31 ppb	09:51:16
3	Sr 421.552†	4026.5	3776.0	33.306 ug/L	33.306 ppb	09:51:16
3	Sc 361.383	725702.4	725702.4	107.96 %		09:52:34
3	Y 371.029	632097.4	632097.4	110.82 %		09:52:34
3	Ag 328.068†	-694.7	-758.0	0.4213 ug/L	0.4213 ppb	09:52:34
3	As 188.979†	-21.8	-7.3	2.2996 ug/L	2.2996 ppb	09:52:54
3	B 249.677†	424.6	345.7	8.6501 ug/L	8.6501 ppb	09:52:34
3	Ba 233.527†	9593.4	8875.6	105.04 ug/L	105.04 ppb	09:52:34
3	Be 313.107†	-4224.8	398.8	1.2124 ug/L	1.2124 ppb	09:52:34
3	Cd 226.502†	-9.8	133.5	0.9947 ug/L	0.9947 ppb	09:52:54
3	Co 228.616†	103.4	128.2	3.1376 ug/L	3.1376 ppb	09:52:54
3	Cr 267.716†	734.3	623.8	12.523 ug/L	12.523 ppb	09:52:54
3	Cu 324.752†	16514.6	10770.0	39.942 ug/L	39.942 ppb	09:52:34
3	Mn 257.610†	327815.1	303107.2	494.08 ug/L	494.08 ppb	09:52:34
3	Mo 202.031†	12.8	2.1	1.5288 ug/L	1.5288 ppb	09:52:54
3	Ni 231.604†	326.0	228.6	9.5918 ug/L	9.5918 ppb	09:52:54
3	P 214.914†	543.4	355.4	334.31 ug/L	334.31 ppb	09:52:54
3	Pb 220.353†	113.4	149.1	32.335 ug/L	32.335 ppb	09:52:54
3	S 181.975 Axial†	156.8	123.9	284.85 ug/L	284.85 ppb	09:52:54
3	Sb 206.836†	12.1	-8.5	-6.3699 ug/L	-6.3699 ppb	09:52:54
3	Se 196.026†	-76.1	-59.1	-21.723 ug/L	-21.723 ppb	09:52:54
3	Si 251.611†	154960.5	143002.3	6592.2 ug/L	6592.2 ppb	09:52:34
3	Sn 189.927†	-32.8	-36.1	-10.244 ug/L	-10.244 ppb	09:52:54
3	Ti 334.940†	238879.1	222042.7	443.45 ug/L	443.45 ppb	09:52:34
3	Tl 190.801†	-26.7	-1.9	5.0332 ug/L	5.0332 ppb	09:52:54
3	U 409.014†	-1936.4	-611.1	-21.356 ug/L	-21.356 ppb	09:52:34
3	V 292.402†	1140.3	2230.6	18.849 ug/L	18.849 ppb	09:52:34
3	Zn 213.857†	8923.5	7821.9	118.89 ug/L	118.89 ppb	09:52:34
3	SiO2†	151301.9	139602.4	13846 ug/L	13846 ppb	09:53:09

Mean Data: 248198002|959127|5

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	723860.7	107.69 %		1.038			0.96%
Sc Radial	3564.5	108 %		1.5			1.39%
Y 371.029	630513.7	110.54 %		0.999			0.90%
Y RADIAL	3674.3	110.5 %		1.39			1.26%
Ag 328.068†	-753.9	0.4201 ug/L		0.18738	0.4201 ppb	0.18738	44.60%
Al 396.153Radial†	8287.5	10243 ug/L		39.1	10243 ppb	39.1	0.38%
As 188.979†	-7.5	2.1557 ug/L		1.48259	2.1557 ppb	1.48259	68.78%
B 249.677†	356.6	9.0175 ug/L		0.87319	9.0175 ppb	0.87319	9.68%
Ba 233.527†	8875.9	105.04 ug/L		0.219	105.04 ppb	0.219	0.21%
Be 313.107†	370.1	1.1995 ug/L		0.03497	1.1995 ppb	0.03497	2.92%
Ca 317.933Radial†	1692.3	5338.8 ug/L		29.25	5338.8 ppb	29.25	0.55%
Cd 226.502†	132.2	0.9782 ug/L		0.07822	0.9782 ppb	0.07822	8.00%
Co 228.616†	131.1	3.2356 ug/L		0.10286	3.2356 ppb	0.10286	3.18%
Cr 267.716†	628.1	12.588 ug/L		0.0842	12.588 ppb	0.0842	0.67%
Cu 324.752†	10830.5	40.158 ug/L		0.2545	40.158 ppb	0.2545	0.63%
Fe 238.204 Radial†	577.0	15666 ug/L		76.9	15666 ppb	76.9	0.49%
K 766.490 Radial†	18453.0	2242.1 ug/L		17.85	2242.1 ppb	17.85	0.80%

Mg 279.077 IEC†	28.2	2184.7 ug/L	133.74	2184.7 ppb	133.74	6.12%
Mn 257.610†	303627.5	494.93 ug/L	2.355	494.93 ppb	2.355	0.48%
Mo 202.031†	3.5	1.6884 ug/L	0.24766	1.6884 ppb	0.24766	14.67%
Na 589.592 Radial†	3241.1	693.02 ug/L	26.738	693.02 ppb	26.738	3.86%
Ni 231.604†	221.3	9.2865 ug/L	0.34400	9.2865 ppb	0.34400	3.70%
P 214.914†	362.3	341.22 ug/L	6.177	341.22 ppb	6.177	1.81%
Pb 220.353†	147.3	31.963 ug/L	0.5125	31.963 ppb	0.5125	1.60%
S 181.975 Axial†	127.2	292.59 ug/L	8.932	292.59 ppb	8.932	3.05%
Sb 206.836†	-3.5	-3.8138 ug/L	2.30347	-3.8138 ppb	2.30347	60.40%
Se 196.026†	-57.6	-20.231 ug/L	1.5023	-20.231 ppb	1.5023	7.43%
Si 251.611†	143439.0	6612.3 ug/L	18.78	6612.3 ppb	18.78	0.28%
Sn 189.927†	-35.1	-9.9312 ug/L	1.04032	-9.9312 ppb	1.04032	10.48%
Sr 421.552†	3788.8	33.419 ug/L	0.4117	33.419 ppb	0.4117	1.23%
Ti 334.940†	222485.9	444.34 ug/L	0.880	444.34 ppb	0.880	0.20%
Tl 190.801†	-7.6	2.2031 ug/L	2.50904	2.2031 ppb	2.50904	113.89%
U 409.014†	-643.7	-22.389 ug/L	1.3927	-22.389 ppb	1.3927	6.22%
V 292.402†	2210.8	18.666 ug/L	0.1749	18.666 ppb	0.1749	0.94%
Zn 213.857†	7855.2	119.42 ug/L	0.730	119.42 ppb	0.730	0.61%
SiO2†	140850.2	13970 ug/L	195.9	13970 ppb	195.9	1.40%

Sequence No.: 5

Sample ID: 248198004|959127|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 39

Date Collected: 4/5/2010 09:55:20

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248198004|959127|5

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3572.2	3572.2	108 %		09:57:33
1	Y RADIAL	3708.5	3708.5	111.5 %		09:57:33
1	Al 396.153Radial†	10261.4	9608.7	11876 ug/L	11876 ppb	09:57:13
1	Ca 317.933Radial†	1731.1	1594.2	5029.4 ug/L	5029.4 ppb	09:57:33
1	Fe 238.204 Radial†	653.0	599.6	16278 ug/L	16278 ppb	09:57:33
1	K 766.490 Radial†	22421.8	18262.2	2218.8 ug/L	2218.8 ppb	09:57:13
1	Mg 279.077 IEC†	31.1	28.0	2171.5 ug/L	2171.5 ppb	09:57:33
1	Na 589.592 Radial†	5455.6	5765.3	1232.7 ug/L	1232.7 ppb	09:57:13
1	Sr 421.552†	4464.8	4126.8	36.406 ug/L	36.406 ppb	09:57:13
1	Sc 361.383	734739.5	734739.5	109.31 %		09:58:30
1	Y 371.029	644505.3	644505.3	112.99 %		09:58:30
1	Ag 328.068†	-694.5	-749.9	0.6490 ug/L	0.6490 ppb	09:58:30
1	As 188.979†	-16.0	-1.7	6.4693 ug/L	6.4693 ppb	09:58:50
1	B 249.677†	512.4	421.1	11.015 ug/L	11.015 ppb	09:58:30
1	Ba 233.527†	9476.5	8659.4	102.52 ug/L	102.52 ppb	09:58:30
1	Be 313.107†	-4110.5	551.6	1.3030 ug/L	1.3030 ppb	09:58:30
1	Cd 226.502†	-15.7	128.2	0.8363 ug/L	0.8363 ppb	09:58:50
1	Co 228.616†	93.8	118.2	2.7883 ug/L	2.7883 ppb	09:58:50
1	Cr 267.716†	721.3	603.5	12.231 ug/L	12.231 ppb	09:58:50
1	Cu 324.752†	12834.0	7214.7	27.068 ug/L	27.068 ppb	09:58:30
1	Mn 257.610†	305419.6	278884.1	454.77 ug/L	454.77 ppb	09:58:30
1	Mo 202.031†	11.1	0.4	1.3658 ug/L	1.3658 ppb	09:58:50
1	Ni 231.604†	335.8	233.9	9.8157 ug/L	9.8157 ppb	09:58:50
1	P 214.914†	493.2	303.3	285.17 ug/L	285.17 ppb	09:58:50
1	Pb 220.353†	74.3	112.1	24.949 ug/L	24.949 ppb	09:58:50
1	S 181.975 Axial†	129.3	97.0	222.19 ug/L	222.19 ppb	09:58:50
1	Sb 206.836†	21.1	-0.4	-2.3512 ug/L	-2.3512 ppb	09:58:50
1	Se 196.026†	-74.0	-56.3	-16.736 ug/L	-16.736 ppb	09:58:50
1	Si 251.611†	164886.3	150317.6	6929.4 ug/L	6929.4 ppb	09:58:30
1	Sn 189.927†	-43.1	-45.1	-13.128 ug/L	-13.128 ppb	09:58:50
1	Ti 334.940†	244613.9	224567.7	448.45 ug/L	448.45 ppb	09:58:30
1	Tl 190.801†	-42.6	-16.1	-2.1345 ug/L	-2.1345 ppb	09:58:50
1	U 409.014†	-2224.3	-852.4	-29.130 ug/L	-29.130 ppb	09:58:30
1	V 292.402†	1302.1	2365.6	20.053 ug/L	20.053 ppb	09:58:30
1	Zn 213.857†	7337.1	6269.0	94.735 ug/L	94.735 ppb	09:58:30
1	SiO2†	158358.1	144334.0	14315 ug/L	14315 ppb	09:59:46
2	Sc Radial	3527.8	3527.8	106 %		09:57:58
2	Y RADIAL	3656.2	3656.2	110.0 %		09:57:58
2	Al 396.153Radial†	10023.7	9505.0	11748 ug/L	11748 ppb	09:57:38
2	Ca 317.933Radial†	1768.4	1649.5	5203.8 ug/L	5203.8 ppb	09:57:58
2	Fe 238.204 Radial†	658.7	612.6	16631 ug/L	16631 ppb	09:57:58
2	K 766.490 Radial†	21966.8	18096.1	2198.5 ug/L	2198.5 ppb	09:57:38
2	Mg 279.077 IEC†	34.4	31.5	2442.7 ug/L	2442.7 ppb	09:57:58
2	Na 589.592 Radial†	5195.9	5584.9	1194.2 ug/L	1194.2 ppb	09:57:38
2	Sr 421.552†	4363.0	4083.2	36.020 ug/L	36.020 ppb	09:57:38
2	Sc 361.383	717226.0	717226.0	106.70 %		09:58:55
2	Y 371.029	626368.0	626368.0	109.81 %		09:58:55
2	Ag 328.068†	-718.2	-787.6	0.5381 ug/L	0.5381 ppb	09:58:55
2	As 188.979†	-25.6	-11.0	-0.1224 ug/L	-0.1224 ppb	09:59:15
2	B 249.677†	303.9	237.2	4.9842 ug/L	4.9842 ppb	09:58:55
2	Ba 233.527†	9413.8	8812.3	104.33 ug/L	104.33 ppb	09:58:55
2	Be 313.107†	-3826.7	725.7	1.3978 ug/L	1.3978 ppb	09:58:55
2	Cd 226.502†	-22.3	121.7	0.6695 ug/L	0.6695 ppb	09:59:15
2	Co 228.616†	109.9	135.4	3.3526 ug/L	3.3526 ppb	09:59:15
2	Cr 267.716†	708.8	607.9	12.348 ug/L	12.348 ppb	09:59:15
2	Cu 324.752†	12238.2	6943.1	26.105 ug/L	26.105 ppb	09:58:55
2	Mn 257.610†	303442.9	283854.4	462.87 ug/L	462.87 ppb	09:58:55
2	Mo 202.031†	22.2	11.0	2.6271 ug/L	2.6271 ppb	09:59:15
2	Ni 231.604†	316.2	223.0	9.3596 ug/L	9.3596 ppb	09:59:15

2	P 214.914†	498.4	319.1	300.79 ug/L	300.79 ppb	09:59:15
2	Pb 220.353†	78.9	118.0	26.128 ug/L	26.128 ppb	09:59:15
2	S 181.975 Axial†	131.9	102.3	234.57 ug/L	234.57 ppb	09:59:15
2	Sb 206.836†	22.9	1.7	-1.1500 ug/L	-1.1500 ppb	09:59:15
2	Se 196.026†	-78.9	-62.6	-22.922 ug/L	-22.922 ppb	09:59:15
2	Si 251.611†	160849.4	150217.7	6924.8 ug/L	6924.8 ppb	09:58:55
2	Sn 189.927†	-25.5	-29.6	-8.2281 ug/L	-8.2281 ppb	09:59:15
2	Ti 334.940†	239837.1	225555.4	450.43 ug/L	450.43 ppb	09:58:55
2	Tl 190.801†	-35.9	-10.8	0.5470 ug/L	0.5470 ppb	09:59:15
2	U 409.014†	-2433.5	-1098.1	-37.026 ug/L	-37.026 ppb	09:58:55
2	V 292.402†	1253.2	2348.9	19.845 ug/L	19.845 ppb	09:58:55
2	Zn 213.857†	7268.1	6368.2	96.226 ug/L	96.226 ppb	09:58:55
2	SiO2†	160252.3	149646.8	14842 ug/L	14842 ppb	09:59:52
3	Sc Radial	3584.6	3584.6	108 %		09:58:23
3	Y RADIAL	3721.4	3721.4	111.9 %		09:58:23
3	Al 396.153Radial†	10473.6	9771.8	12078 ug/L	12078 ppb	09:58:03
3	Ca 317.933Radial†	1754.4	1610.3	5080.0 ug/L	5080.0 ppb	09:58:23
3	Fe 238.204 Radial†	656.3	600.5	16304 ug/L	16304 ppb	09:58:23
3	K 766.490 Radial†	22585.6	18341.3	2228.4 ug/L	2228.4 ppb	09:58:03
3	Mg 279.077 IEC†	33.5	30.2	2336.8 ug/L	2336.8 ppb	09:58:23
3	Na 589.592 Radial†	5510.9	5798.8	1239.9 ug/L	1239.9 ppb	09:58:03
3	Sr 421.552†	4569.5	4209.2	37.134 ug/L	37.134 ppb	09:58:03
3	Sc 361.383	706946.8	706946.8	105.17 %		09:59:21
3	Y 371.029	618686.1	618686.1	108.47 %		09:59:21
3	Ag 328.068†	-738.6	-816.8	0.2661 ug/L	0.2661 ppb	09:59:21
3	As 188.979†	-14.5	-0.8	7.1417 ug/L	7.1417 ppb	09:59:41
3	B 249.677†	335.4	271.3	6.1454 ug/L	6.1454 ppb	09:59:21
3	Ba 233.527†	9388.4	8916.5	105.54 ug/L	105.54 ppb	09:59:21
3	Be 313.107†	-3764.7	732.5	1.4094 ug/L	1.4094 ppb	09:59:21
3	Cd 226.502†	-19.8	123.8	0.7441 ug/L	0.7441 ppb	09:59:41
3	Co 228.616†	108.9	135.9	3.3643 ug/L	3.3643 ppb	09:59:41
3	Cr 267.716†	709.9	618.6	12.499 ug/L	12.499 ppb	09:59:41
3	Cu 324.752†	12186.0	7060.2	26.514 ug/L	26.514 ppb	09:59:21
3	Mn 257.610†	301193.3	285850.4	466.09 ug/L	466.09 ppb	09:59:21
3	Mo 202.031†	9.6	-0.7	1.2413 ug/L	1.2413 ppb	09:59:41
3	Ni 231.604†	322.6	233.4	9.7940 ug/L	9.7940 ppb	09:59:41
3	P 214.914†	489.0	317.0	298.98 ug/L	298.98 ppb	09:59:41
3	Pb 220.353†	79.5	119.7	26.595 ug/L	26.595 ppb	09:59:41
3	S 181.975 Axial†	131.8	104.0	238.41 ug/L	238.41 ppb	09:59:41
3	Sb 206.836†	15.0	-5.5	-4.8963 ug/L	-4.8963 ppb	09:59:41
3	Se 196.026†	-80.4	-65.0	-26.416 ug/L	-26.416 ppb	09:59:41
3	Si 251.611†	159579.6	151202.2	6970.2 ug/L	6970.2 ppb	09:59:21
3	Sn 189.927†	-28.3	-32.5	-9.1805 ug/L	-9.1805 ppb	09:59:41
3	Ti 334.940†	238254.0	227318.5	453.94 ug/L	453.94 ppb	09:59:21
3	Tl 190.801†	-38.4	-13.7	-0.8289 ug/L	-0.8289 ppb	09:59:41
3	U 409.014†	-2476.6	-1172.3	-39.361 ug/L	-39.361 ppb	09:59:21
3	V 292.402†	1178.1	2294.6	19.337 ug/L	19.337 ppb	09:59:21
3	Zn 213.857†	7253.8	6453.7	97.597 ug/L	97.597 ppb	09:59:21
3	SiO2†	160445.5	152014.3	15077 ug/L	15077 ppb	09:59:57

Mean Data: 248198004|959127|5

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	719637.4	107.06 %	2.091			1.95%
Sc Radial	3561.6	107 %	0.9			0.84%
Y 371.029	629853.1	110.42 %	2.324			2.10%
Y RADIAL	3695.3	111.2 %	1.04			0.94%
Ag 328.068†	-784.8	0.4844 ug/L	0.19700	0.4844 ppb	0.19700	40.67%
Al 396.153Radial†	9628.5	11901 ug/L	166.2	11901 ppb	166.2	1.40%
As 188.979†	-4.5	4.4962 ug/L	4.01396	4.4962 ppb	4.01396	89.27%
B 249.677†	309.9	7.3815 ug/L	3.19967	7.3815 ppb	3.19967	43.35%
Ba 233.527†	8796.1	104.13 ug/L	1.523	104.13 ppb	1.523	1.46%
Be 313.107†	669.9	1.3701 ug/L	0.05834	1.3701 ppb	0.05834	4.26%
Ca 317.933Radial†	1618.0	5104.4 ug/L	89.74	5104.4 ppb	89.74	1.76%
Cd 226.502†	124.6	0.7500 ug/L	0.08357	0.7500 ppb	0.08357	11.14%
Co 228.616†	129.8	3.1684 ug/L	0.32923	3.1684 ppb	0.32923	10.39%
Cr 267.716†	610.0	12.359 ug/L	0.1343	12.359 ppb	0.1343	1.09%
Cu 324.752†	7072.6	26.562 ug/L	0.4833	26.562 ppb	0.4833	1.82%
Fe 238.204 Radial†	604.2	16404 ug/L	196.5	16404 ppb	196.5	1.20%
K 766.490 Radial†	18233.2	2215.2 ug/L	15.23	2215.2 ppb	15.23	0.69%

Mg 279.077 IEC†	29.9	2317.0 ug/L	136.69	2317.0 ppb	136.69	5.90%
Mn 257.610†	282862.9	461.25 ug/L	5.832	461.25 ppb	5.832	1.26%
Mo 202.031†	3.5	1.7447 ug/L	0.76665	1.7447 ppb	0.76665	43.94%
Na 589.592 Radial†	5716.3	1222.3 ug/L	24.60	1222.3 ppb	24.60	2.01%
Ni 231.604†	230.1	9.6564 ug/L	0.25726	9.6564 ppb	0.25726	2.66%
P 214.914†	313.1	294.98 ug/L	8.546	294.98 ppb	8.546	2.90%
Pb 220.353†	116.6	25.890 ug/L	0.8484	25.890 ppb	0.8484	3.28%
S 181.975 Axial†	101.1	231.72 ug/L	8.476	231.72 ppb	8.476	3.66%
Sb 206.836†	-1.4	-2.7992 ug/L	1.91288	-2.7992 ppb	1.91288	68.34%
Se 196.026†	-61.3	-22.024 ug/L	4.9019	-22.024 ppb	4.9019	22.26%
Si 251.611†	150579.1	6941.5 ug/L	24.98	6941.5 ppb	24.98	0.36%
Sn 189.927†	-35.8	-10.179 ug/L	2.5979	-10.179 ppb	2.5979	25.52%
Sr 421.552†	4139.7	36.520 ug/L	0.5654	36.520 ppb	0.5654	1.55%
Ti 334.940†	225813.9	450.94 ug/L	2.778	450.94 ppb	2.778	0.62%
Tl 190.801†	-13.5	-0.8055 ug/L	1.34092	-0.8055 ppb	1.34092	166.48%
U 409.014†	-1041.0	-35.172 ug/L	5.3614	-35.172 ppb	5.3614	15.24%
V 292.402†	2336.4	19.745 ug/L	0.3682	19.745 ppb	0.3682	1.86%
Zn 213.857†	6363.6	96.186 ug/L	1.4315	96.186 ppb	1.4315	1.49%
SiO2†	148665.0	14745 ug/L	390.1	14745 ppb	390.1	2.65%

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

Autosampler Location: 7
 Date Collected: 4/5/2010 10:29:15
 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	3517.0	3517.0	106 %		10:31:27
1	Y RADIAL	3493.0	3493.0	105.1 %		10:31:27
1	Al 396.153Radial†	4224.5	4068.2	5003.7 ug/L	5003.7 ppb	10:31:07
1	Ca 317.933Radial†	1745.6	1633.2	5152.2 ug/L	5152.2 ppb	10:31:27
1	Fe 238.204 Radial†	202.9	184.8	5033.3 ug/L	5033.3 ppb	10:31:27
1	K 766.490 Radial†	45685.5	40514.8	4921.6 ug/L	4921.6 ppb	10:31:07
1	Mg 279.077 IEC†	71.0	66.1	5158.6 ug/L	5158.6 ppb	10:31:27
1	Na 589.592 Radial†	42903.7	41140.1	8796.6 ug/L	8796.6 ppb	10:31:07
1	Sr 421.552†	58332.8	54963.1	485.34 ug/L	485.34 ppb	10:31:07
1	Sc 361.383	718066.0	718066.0	106.83 %		10:32:24
1	Y 371.029	600730.0	600730.0	105.32 %		10:32:24
1	Ag 328.068†	90229.3	84348.4	501.58 ug/L	501.58 ppb	10:32:30
1	As 188.979†	733.2	699.3	507.02 ug/L	507.02 ppb	10:32:50
1	B 249.677†	16146.4	15066.8	486.81 ug/L	486.81 ppb	10:32:30
1	Ba 233.527†	45674.6	42745.4	504.61 ug/L	504.61 ppb	10:32:30
1	Be 313.107†	1031215.2	969624.1	504.03 ug/L	504.03 ppb	10:32:24
1	Cd 226.502†	27339.4	25734.8	504.97 ug/L	504.97 ppb	10:32:30
1	Co 228.616†	16013.3	15022.3	497.91 ug/L	497.91 ppb	10:32:50
1	Cr 267.716†	30910.2	28878.4	501.74 ug/L	501.74 ppb	10:32:30
1	Cu 324.752†	153036.6	138729.8	503.61 ug/L	503.61 ppb	10:32:30
1	Mn 257.610†	326744.0	305333.7	496.53 ug/L	496.53 ppb	10:32:30
1	Mo 202.031†	4646.8	4340.0	504.58 ug/L	504.58 ppb	10:32:50
1	Ni 231.604†	12774.4	11884.6	498.59 ug/L	498.59 ppb	10:32:50
1	P 214.914†	2881.6	2549.4	2429.3 ug/L	2429.3 ppb	10:32:50
1	Pb 220.353†	2548.1	2429.4	510.76 ug/L	510.76 ppb	10:32:50
1	S 181.975 Axial†	486.9	434.4	1004.7 ug/L	1004.7 ppb	10:32:50
1	Sb 206.836†	1049.0	962.2	511.18 ug/L	511.18 ppb	10:32:50
1	Se 196.026†	467.6	449.1	520.92 ug/L	520.92 ppb	10:32:50
1	Si 251.611†	58117.1	53874.4	2477.3 ug/L	2477.3 ppb	10:32:30
1	Sn 189.927†	1721.6	1605.9	503.37 ug/L	503.37 ppb	10:32:50
1	Ti 334.940†	261758.6	245813.0	490.20 ug/L	490.20 ppb	10:32:30
1	Tl 190.801†	1076.8	1030.9	512.52 ug/L	512.52 ppb	10:32:50
1	U 409.014†	15462.5	15656.8	498.84 ug/L	498.84 ppb	10:32:30
1	V 292.402†	53799.0	51535.3	505.88 ug/L	505.88 ppb	10:32:30
1	Zn 213.857†	35215.2	32521.4	499.99 ug/L	499.99 ppb	10:32:30
1	SiO2†	59197.9	54874.9	5428.8 ug/L	5428.8 ppb	10:33:57
2	Sc Radial	3450.8	3450.8	104 %		10:31:52
2	Y RADIAL	3442.1	3442.1	103.5 %		10:31:52
2	Al 396.153Radial†	4172.1	4094.2	5036.2 ug/L	5036.2 ppb	10:31:32
2	Ca 317.933Radial†	1716.6	1636.8	5163.8 ug/L	5163.8 ppb	10:31:52
2	Fe 238.204 Radial†	198.7	184.5	5023.2 ug/L	5023.2 ppb	10:31:52
2	K 766.490 Radial†	44856.3	40544.5	4925.3 ug/L	4925.3 ppb	10:31:32
2	Mg 279.077 IEC†	70.7	67.1	5240.7 ug/L	5240.7 ppb	10:31:52
2	Na 589.592 Radial†	41845.9	40899.8	8745.2 ug/L	8745.2 ppb	10:31:32
2	Sr 421.552†	57334.2	55058.7	486.19 ug/L	486.19 ppb	10:31:32
2	Sc 361.383	723809.7	723809.7	107.68 %		10:32:55
2	Y 371.029	605982.0	605982.0	106.24 %		10:32:55
2	Ag 328.068†	90920.9	84320.4	501.42 ug/L	501.42 ppb	10:33:00
2	As 188.979†	720.4	681.9	494.57 ug/L	494.57 ppb	10:33:20
2	B 249.677†	16268.3	15060.2	486.62 ug/L	486.62 ppb	10:33:00
2	Ba 233.527†	46115.2	42815.4	505.44 ug/L	505.44 ppb	10:33:00
2	Be 313.107†	1039088.0	969275.3	503.85 ug/L	503.85 ppb	10:32:55
2	Cd 226.502†	27741.4	25905.0	508.30 ug/L	508.30 ppb	10:33:00
2	Co 228.616†	15872.8	14772.9	489.63 ug/L	489.63 ppb	10:33:20
2	Cr 267.716†	31303.1	29013.7	504.09 ug/L	504.09 ppb	10:33:00
2	Cu 324.752†	153483.2	138007.8	500.99 ug/L	500.99 ppb	10:33:00
2	Mn 257.610†	330123.8	306045.2	497.68 ug/L	497.68 ppb	10:33:00
2	Mo 202.031†	4628.1	4288.1	498.55 ug/L	498.55 ppb	10:33:20
2	Ni 231.604†	12715.6	11735.2	492.32 ug/L	492.32 ppb	10:33:20

2	P 214.914†	2860.9	2508.8	2389.5 ug/L	2389.5 ppb	10:33:20
2	Pb 220.353†	2535.4	2398.7	504.33 ug/L	504.33 ppb	10:33:20
2	S 181.975 Axial†	474.7	419.5	970.03 ug/L	970.03 ppb	10:33:20
2	Sb 206.836†	1026.7	933.8	496.33 ug/L	496.33 ppb	10:33:20
2	Se 196.026†	460.6	439.1	509.65 ug/L	509.65 ppb	10:33:20
2	Si 251.611†	58590.3	53882.1	2477.8 ug/L	2477.8 ppb	10:33:00
2	Sn 189.927†	1704.7	1577.4	494.45 ug/L	494.45 ppb	10:33:20
2	Ti 334.940†	264070.4	246015.5	490.60 ug/L	490.60 ppb	10:33:00
2	Tl 190.801†	1061.2	1008.4	501.44 ug/L	501.44 ppb	10:33:20
2	U 409.014†	15385.1	15470.1	492.87 ug/L	492.87 ppb	10:33:00
2	V 292.402†	54364.5	51660.7	507.00 ug/L	507.00 ppb	10:33:00
2	Zn 213.857†	35510.6	32534.0	500.23 ug/L	500.23 ppb	10:33:00
2	SiO2†	59411.7	54633.7	5405.1 ug/L	5405.1 ppb	10:34:02
3	Sc Radial	3447.5	3447.5	104 %		10:32:17
3	Y RADIAL	3420.7	3420.7	102.9 %		10:32:17
3	Al 396.153Radial†	4240.6	4163.9	5121.4 ug/L	5121.4 ppb	10:31:57
3	Ca 317.933Radial†	1709.5	1631.6	5147.4 ug/L	5147.4 ppb	10:32:17
3	Fe 238.204 Radial†	197.6	183.6	4999.6 ug/L	4999.6 ppb	10:32:17
3	K 766.490 Radial†	45418.0	41125.9	4995.9 ug/L	4995.9 ppb	10:31:57
3	Mg 279.077 IEC†	66.2	62.8	4906.4 ug/L	4906.4 ppb	10:32:17
3	Na 589.592 Radial†	42579.5	41643.8	8904.3 ug/L	8904.3 ppb	10:31:57
3	Sr 421.552†	57811.9	55571.0	490.71 ug/L	490.71 ppb	10:31:57
3	Sc 361.383	708296.6	708296.6	105.37 %		10:33:26
3	Y 371.029	593578.1	593578.1	104.06 %		10:33:26
3	Ag 328.068†	88647.7	84012.5	499.60 ug/L	499.60 ppb	10:33:31
3	As 188.979†	756.0	730.4	529.36 ug/L	529.36 ppb	10:33:51
3	B 249.677†	15811.5	14957.5	483.23 ug/L	483.23 ppb	10:33:31
3	Ba 233.527†	45393.8	43068.7	508.42 ug/L	508.42 ppb	10:33:31
3	Be 313.107†	1024528.0	976592.4	507.64 ug/L	507.64 ppb	10:33:26
3	Cd 226.502†	27344.2	26092.3	512.00 ug/L	512.00 ppb	10:33:31
3	Co 228.616†	16166.7	15374.6	509.61 ug/L	509.61 ppb	10:33:51
3	Cr 267.716†	30815.0	29187.2	507.10 ug/L	507.10 ppb	10:33:31
3	Cu 324.752†	148656.6	136549.1	495.70 ug/L	495.70 ppb	10:33:31
3	Mn 257.610†	323931.0	306882.8	499.05 ug/L	499.05 ppb	10:33:31
3	Mo 202.031†	4694.6	4445.4	516.82 ug/L	516.82 ppb	10:33:51
3	Ni 231.604†	12931.4	12198.6	511.76 ug/L	511.76 ppb	10:33:51
3	P 214.914†	2913.8	2617.2	2498.3 ug/L	2498.3 ppb	10:33:51
3	Pb 220.353†	2582.4	2494.9	524.54 ug/L	524.54 ppb	10:33:51
3	S 181.975 Axial†	487.6	441.4	1020.7 ug/L	1020.7 ppb	10:33:51
3	Sb 206.836†	1053.6	980.2	520.84 ug/L	520.84 ppb	10:33:51
3	Se 196.026†	465.3	452.9	525.21 ug/L	525.21 ppb	10:33:51
3	Si 251.611†	57082.5	53643.0	2466.5 ug/L	2466.5 ppb	10:33:31
3	Sn 189.927†	1740.2	1645.8	515.84 ug/L	515.84 ppb	10:33:51
3	Ti 334.940†	257732.7	245372.0	489.34 ug/L	489.34 ppb	10:33:31
3	Tl 190.801†	1074.0	1042.1	518.02 ug/L	518.02 ppb	10:33:51
3	U 409.014†	15039.2	15454.7	492.37 ug/L	492.37 ppb	10:33:31
3	V 292.402†	53295.3	51751.8	508.14 ug/L	508.14 ppb	10:33:31
3	Zn 213.857†	34835.6	32615.8	501.38 ug/L	501.38 ppb	10:33:31
3	SiO2†	59181.1	55623.3	5502.7 ug/L	5502.7 ppb	10:34:07

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	716724.1	106.63 %		1.167			1.09%
Sc Radial	3471.8	105 %		1.2			1.13%
Y 371.029	600096.7	105.21 %		1.092			1.04%
Y RADIAL	3451.9	103.8 %		1.12			1.08%
Ag 328.068†	84227.1	500.87 ug/L		1.101	500.87 ppb	1.101	0.22%
QC value within limits for Ag 328.068 Recovery = 100.17%							
Al 396.153Radial†	4108.7	5053.7 ug/L		60.78	5053.7 ppb	60.78	1.20%
QC value within limits for Al 396.153Radial Recovery = 101.07%							
As 188.979†	703.9	510.32 ug/L		17.628	510.32 ppb	17.628	3.45%
QC value within limits for As 188.979 Recovery = 102.06%							
B 249.677†	15028.2	485.55 ug/L		2.012	485.55 ppb	2.012	0.41%
QC value within limits for B 249.677 Recovery = 97.11%							
Ba 233.527†	42876.5	506.15 ug/L		2.004	506.15 ppb	2.004	0.40%
QC value within limits for Ba 233.527 Recovery = 101.23%							
Be 313.107†	971830.6	505.17 ug/L		2.139	505.17 ppb	2.139	0.42%
QC value within limits for Be 313.107 Recovery = 101.03%							
Ca 317.933Radial†	1633.9	5154.5 ug/L		8.42	5154.5 ppb	8.42	0.16%

QC value within limits for Ca 317.933 Radial Recovery = 103.09%

Cd 226.502† 25910.7 508.42 ug/L 3.515 508.42 ppb 3.515 0.69%

QC value within limits for Cd 226.502 Recovery = 101.68%

Co 228.616† 15056.6 499.05 ug/L 10.042 499.05 ppb 10.042 2.01%

QC value within limits for Co 228.616 Recovery = 99.81%

Cr 267.716† 29026.4 504.31 ug/L 2.685 504.31 ppb 2.685 0.53%

QC value within limits for Cr 267.716 Recovery = 100.86%

Cu 324.752† 137762.2 500.10 ug/L 4.032 500.10 ppb 4.032 0.81%

QC value within limits for Cu 324.752 Recovery = 100.02%

Fe 238.204 Radial† 184.3 5018.7 ug/L 17.33 5018.7 ppb 17.33 0.35%

QC value within limits for Fe 238.204 Radial Recovery = 100.37%

K 766.490 Radial† 40728.4 4947.6 ug/L 41.87 4947.6 ppb 41.87 0.85%

QC value within limits for K 766.490 Radial Recovery = 98.95%

Mg 279.077 IEC† 65.4 5101.9 ug/L 174.23 5101.9 ppb 174.23 3.42%

QC value within limits for Mg 279.077 IEC Recovery = 102.04%

Mn 257.610† 306087.2 497.75 ug/L 1.264 497.75 ppb 1.264 0.25%

QC value within limits for Mn 257.610 Recovery = 99.55%

Mo 202.031† 4357.9 506.65 ug/L 9.309 506.65 ppb 9.309 1.84%

QC value within limits for Mo 202.031 Recovery = 101.33%

Na 589.592 Radial† 41227.9 8815.4 ug/L 81.19 8815.4 ppb 81.19 0.92%

QC value less than the lower limit for Na 589.592 Radial Recovery = 88.15%

Ni 231.604† 11939.5 500.89 ug/L 9.923 500.89 ppb 9.923 1.98%

QC value within limits for Ni 231.604 Recovery = 100.18%

P 214.914† 2558.5 2439.0 ug/L 55.01 2439.0 ppb 55.01 2.26%

QC value within limits for P 214.914 Recovery = 97.56%

Pb 220.353† 2441.0 513.21 ug/L 10.329 513.21 ppb 10.329 2.01%

QC value within limits for Pb 220.353 Recovery = 102.64%

S 181.975 Axial† 431.8 998.45 ug/L 25.879 998.45 ppb 25.879 2.59%

QC value within limits for S 181.975 Axial Recovery = 99.85%

Sb 206.836† 958.7 509.45 ug/L 12.348 509.45 ppb 12.348 2.42%

QC value within limits for Sb 206.836 Recovery = 101.89%

Se 196.026† 447.1 518.59 ug/L 8.038 518.59 ppb 8.038 1.55%

QC value within limits for Se 196.026 Recovery = 103.72%

Si 251.611† 53799.8 2473.9 ug/L 6.37 2473.9 ppb 6.37 0.26%

QC value within limits for Si 251.611 Recovery = 98.95%

Sn 189.927† 1609.7 504.55 ug/L 10.747 504.55 ppb 10.747 2.13%

QC value within limits for Sn 189.927 Recovery = 100.91%

Sr 421.552† 55197.6 487.41 ug/L 2.886 487.41 ppb 2.886 0.59%

QC value within limits for Sr 421.552 Recovery = 97.48%

Ti 334.940† 245733.5 490.04 ug/L 0.643 490.04 ppb 0.643 0.13%

QC value within limits for Ti 334.940 Recovery = 98.01%

Tl 190.801† 1027.1 510.66 ug/L 8.448 510.66 ppb 8.448 1.65%

QC value within limits for Tl 190.801 Recovery = 102.13%

U 409.014† 15527.2 494.69 ug/L 3.601 494.69 ppb 3.601 0.73%

QC value within limits for U 409.014 Recovery = 98.94%

V 292.402† 51649.3 507.01 ug/L 1.129 507.01 ppb 1.129 0.22%

QC value within limits for V 292.402 Recovery = 101.40%

Zn 213.857† 32557.1 500.53 ug/L 0.747 500.53 ppb 0.747 0.15%

QC value within limits for Zn 213.857 Recovery = 100.11%

SiO2† 55044.0 5445.5 ug/L 50.92 5445.5 ppb 50.92 0.94%

QC value within limits for SiO2 Recovery = 101.83%

QC Failed. Continue with analysis.

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

Autosampler Location: 8
 Date Collected: 4/5/2010 10:36:17
 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	3564.7	3564.7	108 %		10:38:30
1	Y RADIAL	3569.6	3569.6	107.4 %		10:38:30
1	Al 396.153Radial†	-73.1	18.5	22.910 ug/L	22.910 ppb	10:38:30
1	Ca 317.933Radial†	17.2	3.8	12.122 ug/L	12.122 ppb	10:38:30
1	Fe 238.204 Radial†	7.4	0.5	13.239 ug/L	13.239 ppb	10:38:30
1	K 766.490 Radial†	2769.5	30.9	3.7504 ug/L	3.7504 ppb	10:38:10
1	Mg 279.077 IEC†	0.4	-0.4	-30.081 ug/L	-30.081 ppb	10:38:30
1	Na 589.592 Radial†	-663.3	85.9	18.372 ug/L	18.372 ppb	10:38:10
1	Sr 421.552†	51.8	31.8	0.2805 ug/L	0.2805 ppb	10:38:10
1	Sc 361.383	698014.7	698014.7	103.84 %		10:39:26
1	Y 371.029	592121.4	592121.4	103.81 %		10:39:26
1	Ag 328.068†	114.2	-4.5	-0.0222 ug/L	-0.0222 ppb	10:39:26
1	As 188.979†	-18.6	-4.9	-3.5206 ug/L	-3.5206 ppb	10:39:46
1	B 249.677†	7.8	-40.2	-1.3066 ug/L	-1.3066 ppb	10:39:46
1	Ba 233.527†	21.0	10.0	0.1208 ug/L	0.1208 ppb	10:39:46
1	Be 313.107†	-4161.7	304.3	0.1580 ug/L	0.1580 ppb	10:39:26
1	Cd 226.502†	-151.3	-3.1	-0.0614 ug/L	-0.0614 ppb	10:39:46
1	Co 228.616†	-22.7	10.6	0.3474 ug/L	0.3474 ppb	10:39:46
1	Cr 267.716†	64.7	5.9	0.1034 ug/L	0.1034 ppb	10:39:46
1	Cu 324.752†	4441.7	-249.2	-0.9061 ug/L	-0.9061 ppb	10:39:26
1	Mn 257.610†	405.3	-138.4	-0.2224 ug/L	-0.2224 ppb	10:39:46
1	Mo 202.031†	2.3	-7.6	-0.8852 ug/L	-0.8852 ppb	10:39:46
1	Ni 231.604†	76.3	0.1	0.0047 ug/L	0.0047 ppb	10:39:46
1	P 214.914†	149.8	-3.7	-3.4564 ug/L	-3.4564 ppb	10:39:46
1	Pb 220.353†	-38.7	6.9	1.4383 ug/L	1.4383 ppb	10:39:46
1	S 181.975 Axial†	17.6	-4.4	-10.183 ug/L	-10.183 ppb	10:39:46
1	Sb 206.836†	17.2	-3.1	-1.5775 ug/L	-1.5775 ppb	10:39:46
1	Se 196.026†	-16.0	-4.0	-4.4926 ug/L	-4.4926 ppb	10:39:46
1	Si 251.611†	453.4	-91.9	-4.2244 ug/L	-4.2244 ppb	10:39:46
1	Sn 189.927†	13.4	7.2	2.2488 ug/L	2.2488 ppb	10:39:46
1	Ti 334.940†	-786.8	25.3	0.0526 ug/L	0.0526 ppb	10:39:26
1	Tl 190.801†	-24.1	-0.4	-0.1779 ug/L	-0.1779 ppb	10:39:46
1	U 409.014†	-1091.7	131.2	4.1932 ug/L	4.1932 ppb	10:39:26
1	V 292.402†	-1116.4	99.4	0.9554 ug/L	0.9554 ppb	10:39:46
1	Zn 213.857†	482.5	21.3	0.3294 ug/L	0.3294 ppb	10:39:46
1	SiO2†	469.3	-87.8	-8.6870 ug/L	-8.6870 ppb	10:40:57
2	Sc Radial	3469.3	3469.3	105 %		10:38:55
2	Y RADIAL	3475.5	3475.5	104.5 %		10:38:55
2	Al 396.153Radial†	-81.9	8.3	10.210 ug/L	10.210 ppb	10:38:55
2	Ca 317.933Radial†	15.1	2.3	7.1792 ug/L	7.1792 ppb	10:38:55
2	Fe 238.204 Radial†	7.4	0.7	18.409 ug/L	18.409 ppb	10:38:55
2	K 766.490 Radial†	2645.7	-16.6	-2.0212 ug/L	-2.0212 ppb	10:38:35
2	Mg 279.077 IEC†	1.9	1.0	81.082 ug/L	81.082 ppb	10:38:55
2	Na 589.592 Radial†	-686.0	47.3	10.108 ug/L	10.108 ppb	10:38:35
2	Sr 421.552†	26.9	9.3	0.0819 ug/L	0.0819 ppb	10:38:35
2	Sc 361.383	722786.6	722786.6	107.53 %		10:39:52
2	Y 371.029	612819.3	612819.3	107.44 %		10:39:52
2	Ag 328.068†	200.2	71.7	0.4302 ug/L	0.4302 ppb	10:39:52
2	As 188.979†	-17.7	-3.5	-2.5258 ug/L	-2.5258 ppb	10:40:12
2	B 249.677†	15.2	-33.5	-1.0894 ug/L	-1.0894 ppb	10:40:12
2	Ba 233.527†	22.6	10.8	0.1301 ug/L	0.1301 ppb	10:40:12
2	Be 313.107†	-4330.7	284.6	0.1481 ug/L	0.1481 ppb	10:39:52
2	Cd 226.502†	-139.5	12.9	0.2508 ug/L	0.2508 ppb	10:40:12
2	Co 228.616†	-34.1	0.7	0.0204 ug/L	0.0204 ppb	10:40:12
2	Cr 267.716†	62.1	1.4	0.0262 ug/L	0.0262 ppb	10:40:12
2	Cu 324.752†	4670.7	-182.9	-0.6647 ug/L	-0.6647 ppb	10:39:52
2	Mn 257.610†	409.2	-148.2	-0.2423 ug/L	-0.2423 ppb	10:40:12
2	Mo 202.031†	8.8	-1.7	-0.1918 ug/L	-0.1918 ppb	10:40:12
2	Ni 231.604†	67.5	-10.6	-0.4449 ug/L	-0.4449 ppb	10:40:12

2	P 214.914†	140.1	-17.7	-17.360 ug/L	-17.360 ppb	10:40:12
2	Pb 220.353†	-28.8	17.3	3.6353 ug/L	3.6353 ppb	10:40:12
2	S 181.975 Axial†	18.4	-4.3	-9.8415 ug/L	-9.8415 ppb	10:40:12
2	Sb 206.836†	16.9	-4.0	-2.0343 ug/L	-2.0343 ppb	10:40:12
2	Se 196.026†	-7.5	4.4	4.9482 ug/L	4.9482 ppb	10:40:12
2	Si 251.611†	478.5	-83.5	-3.8469 ug/L	-3.8469 ppb	10:40:12
2	Sn 189.927†	15.8	9.0	2.8246 ug/L	2.8246 ppb	10:40:12
2	Ti 334.940†	-709.9	122.7	0.2377 ug/L	0.2377 ppb	10:39:52
2	Tl 190.801†	-27.4	-2.6	-1.3078 ug/L	-1.3078 ppb	10:40:12
2	U 409.014†	-1161.8	102.1	3.2607 ug/L	3.2607 ppb	10:39:52
2	V 292.402†	-1157.1	98.3	0.9547 ug/L	0.9547 ppb	10:40:12
2	Zn 213.857†	485.4	8.1	0.1260 ug/L	0.1260 ppb	10:40:12
2	SiO2†	461.9	-110.2	-10.920 ug/L	-10.920 ppb	10:41:17
3	Sc Radial	3395.2	3395.2	102 %		10:39:20
3	Y RADIAL	3408.9	3408.9	102.5 %		10:39:20
3	Al 396.153Radial†	-79.8	8.6	10.605 ug/L	10.605 ppb	10:39:20
3	Ca 317.933Radial†	19.7	7.1	22.445 ug/L	22.445 ppb	10:39:20
3	Fe 238.204 Radial†	8.9	2.3	61.805 ug/L	61.805 ppb	10:39:20
3	K 766.490 Radial†	2725.6	116.6	14.171 ug/L	14.171 ppb	10:39:00
3	Mg 279.077 IEC†	0.8	-0.0	-3.0415 ug/L	-3.0415 ppb	10:39:20
3	Na 589.592 Radial†	-708.1	11.4	2.4308 ug/L	2.4308 ppb	10:39:00
3	Sr 421.552†	21.2	4.3	0.0378 ug/L	0.0378 ppb	10:39:00
3	Sc 361.383	728663.4	728663.4	108.40 %		10:40:17
3	Y 371.029	617561.5	617561.5	108.27 %		10:40:17
3	Ag 328.068†	126.6	2.3	0.0352 ug/L	0.0352 ppb	10:40:17
3	As 188.979†	-15.7	-1.5	-1.0762 ug/L	-1.0762 ppb	10:40:37
3	B 249.677†	-12.7	-59.4	-1.9382 ug/L	-1.9382 ppb	10:40:37
3	Ba 233.527†	21.2	9.4	0.1154 ug/L	0.1154 ppb	10:40:37
3	Be 313.107†	-4424.9	230.2	0.1201 ug/L	0.1201 ppb	10:40:17
3	Cd 226.502†	-129.4	23.2	0.4490 ug/L	0.4490 ppb	10:40:37
3	Co 228.616†	-16.6	17.1	0.5651 ug/L	0.5651 ppb	10:40:37
3	Cr 267.716†	65.7	4.2	0.0798 ug/L	0.0798 ppb	10:40:37
3	Cu 324.752†	4730.8	-162.4	-0.5879 ug/L	-0.5879 ppb	10:40:17
3	Mn 257.610†	379.7	-178.5	-0.2839 ug/L	-0.2839 ppb	10:40:37
3	Mo 202.031†	11.1	0.4	0.0563 ug/L	0.0563 ppb	10:40:37
3	Ni 231.604†	64.0	-14.3	-0.6027 ug/L	-0.6027 ppb	10:40:37
3	P 214.914†	144.4	-14.8	-14.575 ug/L	-14.575 ppb	10:40:37
3	Pb 220.353†	-34.6	12.2	2.5564 ug/L	2.5564 ppb	10:40:37
3	S 181.975 Axial†	20.7	-2.2	-5.1845 ug/L	-5.1845 ppb	10:40:37
3	Sb 206.836†	25.4	3.7	1.8714 ug/L	1.8714 ppb	10:40:37
3	Se 196.026†	-14.8	-2.3	-2.4072 ug/L	-2.4072 ppb	10:40:37
3	Si 251.611†	469.6	-95.3	-4.3930 ug/L	-4.3930 ppb	10:40:37
3	Sn 189.927†	1.5	-4.3	-1.3284 ug/L	-1.3284 ppb	10:40:37
3	Ti 334.940†	-684.1	151.9	0.3048 ug/L	0.3048 ppb	10:40:17
3	Tl 190.801†	-23.8	0.9	0.4621 ug/L	0.4621 ppb	10:40:37
3	U 409.014†	-1177.6	96.1	3.0656 ug/L	3.0656 ppb	10:40:17
3	V 292.402†	-1124.9	136.7	1.3210 ug/L	1.3210 ppb	10:40:37
3	Zn 213.857†	489.9	8.6	0.1295 ug/L	0.1295 ppb	10:40:37
3	SiO2†	471.3	-105.0	-10.417 ug/L	-10.417 ppb	10:41:37

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	716488.2	106.59 %	2.420			2.27%
Sc Radial	3476.4	105 %	2.6			2.44%
Y 371.029	607500.7	106.50 %	2.372			2.23%
Y RADIAL	3484.7	104.8 %	2.43			2.32%
Ag 328.068†	23.1	0.1477 ug/L	0.24633	0.1477 ppb	0.24633	166.72%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	11.8	14.575 ug/L	7.2209	14.575 ppb	7.2209	49.54%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.3	-2.3742 ug/L	1.22922	-2.3742 ppb	1.22922	51.77%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-44.3	-1.4447 ug/L	0.44093	-1.4447 ppb	0.44093	30.52%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	10.1	0.1221 ug/L	0.00744	0.1221 ppb	0.00744	6.09%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	273.0	0.1421 ug/L	0.01966	0.1421 ppb	0.01966	13.84%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	4.4	13.916 ug/L	7.7894	13.916 ppb	7.7894	55.98%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	11.0	0.2128 ug/L	0.25731	0.2128 ppb	0.25731	120.92%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	9.4	0.3110 ug/L	0.27417	0.3110 ppb	0.27417	88.16%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	3.8	0.0698 ug/L	0.03955	0.0698 ppb	0.03955	56.66%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-198.1	-0.7195 ug/L	0.16605	-0.7195 ppb	0.16605	23.08%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	1.1	31.151 ug/L	26.6729	31.151 ppb	26.6729	85.62%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	43.6	5.3002 ug/L	8.20680	5.3002 ppb	8.20680	154.84%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.2	15.987 ug/L	57.9729	15.987 ppb	57.9729	362.63%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-155.0	-0.2495 ug/L	0.03134	-0.2495 ppb	0.03134	12.56%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-3.0	-0.3402 ug/L	0.48796	-0.3402 ppb	0.48796	143.42%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	48.2	10.303 ug/L	7.9724	10.303 ppb	7.9724	77.38%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-8.3	-0.3477 ug/L	0.31515	-0.3477 ppb	0.31515	90.65%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-12.0	-11.797 ug/L	7.3562	-11.797 ppb	7.3562	62.36%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	12.1	2.5433 ug/L	1.09852	2.5433 ppb	1.09852	43.19%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-3.6	-8.4029 ug/L	2.79235	-8.4029 ppb	2.79235	33.23%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-1.2	-0.5801 ug/L	2.13537	-0.5801 ppb	2.13537	368.08%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-0.7	-0.6505 ug/L	4.95950	-0.6505 ppb	4.95950	762.39%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-90.2	-4.1548 ug/L	0.27961	-4.1548 ppb	0.27961	6.73%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	4.0	1.2483 ug/L	2.25000	1.2483 ppb	2.25000	180.24%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	15.1	0.1334 ug/L	0.12929	0.1334 ppb	0.12929	96.92%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	100.0	0.1984 ug/L	0.13061	0.1984 ppb	0.13061	65.84%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-0.7	-0.3412 ug/L	0.89615	-0.3412 ppb	0.89615	262.64%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	109.8	3.5065 ug/L	0.60265	3.5065 ppb	0.60265	17.19%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	111.5	1.0770 ug/L	0.21129	1.0770 ppb	0.21129	19.62%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	12.7	0.1949 ug/L	0.11644	0.1949 ppb	0.11644	59.73%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	-101.0	-10.008 ug/L	1.1715	-10.008 ppb	1.1715	11.71%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

ICPMS #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Monday, April 12, 2010 12:06:55

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.1047

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		1600.7		1600.690		66.606		4.2
Mg	24.0		42537.5		42537.482		1284.267		3.0
Co	58.9		65006.2		65006.172		391.198		0.6
Rh	102.9		127267.0		127267.002		942.029		0.7
In	114.9		184150.5		184150.534		1137.512		0.6
Pb	208.0		214713.3		214713.337		559.415		0.3
[> Ba	137.9		172158.1		172158.058		849.562		0.5
[Ba++	69.0		1998.4		0.012		0.000		1.4
[> Ce	139.9		211469.3		211469.349		1635.986		0.8
[CeO	155.9		4156.7		0.020		0.001		2.7
Bkgd	220.0		20.6		20.600		2.559		12.4

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	3575.4
Co	59	21	8.3	64290.0
In	115	21	9.8	174307.3

ICPMS #5 Instrument Tuning Report

File Name: 100412.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	601	2072	0.537
Be	9.0	9.0	2052	2088	0.534
Mg	24.0	24.0	5693	2100	0.514
Mg	25.0	25.0	5933	2100	0.500
Mg	26.0	26.0	6180	2100	0.514
Co	58.9	58.9	14187	2125	0.535
Rh	102.9	102.9	24877	2180	0.538
In	114.9	114.9	27793	2200	0.533
Ce	139.9	139.9	33875	2220	0.545
Pb	206.0	206.0	49948	2305	0.528
Pb	207.0	207.0	50171	2240	0.592
Pb	208.0	208.0	50451	2280	0.646
U	238.1	238.0	57726	2295	0.643

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, April 12, 2010 22:46:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\NanI soil.mth

Dataset File: C:\elandata\Dataset\100412\Blank.212

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9		ug/L		18	
> Sc	45		ug/L		689713	
[Ni	60		ug/L		108	
> Ge	74		ug/L		288594	
[As	75		ug/L		-286	
[Se	77		ug/L		4767	
[Se	82		ug/L		-10	
[Kr	83		ug/L		90	
> Lu	175		ug/L		398692	
[Tl	205		ug/L		4616	
[U	238		ug/L		894	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
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
[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

QC Action

Sample ID: Blank

Report Date/Time: Monday, April 12, 2010 22:47:02

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, April 12, 2010 22:50:25

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100412\Standard 1.213

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	10.000	ug/L	8.392	1754	0.003
> Sc	45		ug/L		685129	685129.095
[Ni	60	10.000	ug/L	2.778	9781	0.014
> Ge	74		ug/L		287845	287844.807
[As	75	10.000	ug/L	7.479	7197	0.026
| Se	77		ug/L		5244	0.002
| Se	82	10.000	ug/L	2.358	697	0.002
[Kr	83		ug/L		86	-0.000
> Lu	175		ug/L		389071	389070.876
| Tl	205	10.000	ug/L	1.453	164742	0.412
[U	238	10.000	ug/L	0.543	381049	0.977

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: Monday, April 12, 2010 22:51:05

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, April 12, 2010 22:54:28

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100412\Standard 2.214

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	100.007	ug/L	7.265	17029	0.025
> Sc	45		ug/L		667126	667125.577
Ni	60	100.011	ug/L	2.682	95389	0.143
> Ge	74		ug/L		281596	281596.224
As	75	100.017	ug/L	2.272	74152	0.264
Se	77		ug/L		9887	0.019
Se	82	100.058	ug/L	4.520	7335	0.026
Kr	83		ug/L		107	0.000
> Lu	175		ug/L		380688	380688.230
Tl	205	99.961	ug/L	3.322	1512565	3.963
U	238	99.957	ug/L	1.551	3564394	9.363

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 2

Report Date/Time: Monday, April 12, 2010 22:55:08

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, April 12, 2010 22:58:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 1.215

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	49.740	ug/L	4.632	8319	0.013
[> Sc	45		ug/L		654677	654676.778
[Ni	60	51.300	ug/L	2.674	48067	0.073
[> Ge	74		ug/L		273811	273811.156
[As	75	51.239	ug/L	2.432	36805	0.135
[Se	77		ug/L		7325	0.010
[Se	82	50.618	ug/L	1.796	3605	0.013
[Kr	83		ug/L		82	-0.000
[> Lu	175		ug/L		376477	376476.708
[Tl	205	48.752	ug/L	0.949	732005	1.933
[U	238	50.847	ug/L	2.764	1793260	4.763

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	99.480					
[> Sc	45		94.9				
[Ni	60	102.599					
[> Ge	74		94.9				
[As	75	102.477					
[Se	77						
[Se	82	101.236					
[Kr	83						
[> Lu	175		94.4				
[Tl	205	97.505					
[U	238	101.694					

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

Sample ID: QC Std 1

Report Date/Time: Monday, April 12, 2010 22:59:12

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, April 12, 2010 23:02:37

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 2.216

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.037	ug/L	63.773	24	0.000
> Sc	45		ug/L		675482	675481.760
Ni	60	-0.001	ug/L	1221.915	105	-0.000
> Ge	74		ug/L		284880	284879.794
As	75	0.115	ug/L	379.055	-193	0.000
Se	77		ug/L		4617	-0.000
Se	82	0.156	ug/L	133.673	2	0.000
Kr	83		ug/L		83	-0.000
> Lu	175		ug/L		392333	392332.786
Tl	205	0.351	ug/L	3.926	9996	0.014
U	238	0.003	ug/L	9.267	992	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 % Di	Duplicate Rel.	% Difference
Be	9						
> Sc	45		97.9				
Ni	60						
> Ge	74		98.7				
As	75						
Se	77						
Se	82						
Kr	83						
> Lu	175		98.4				
Tl	205						
U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

Sample ID: QC Std 2

Report Date/Time: Monday, April 12, 2010 23:03:20

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, April 12, 2010 23:06:43

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nanl soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 3.217

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.511	ug/L	10.844	107	0.000
Sc	45		ug/L		684653	684653.073
Ni	60	2.295	ug/L	3.924	2350	0.003
Ge	74		ug/L		284514	284514.208
As	75	5.817	ug/L	8.467	4091	0.015
Se	77		ug/L		5061	0.001
Se	82	5.922	ug/L	11.256	430	0.002
Kr	83		ug/L		81	-0.000
Lu	175		ug/L		394577	394576.597
Tl	205	1.153	ug/L	1.336	22598	0.046
U	238	0.246	ug/L	1.162	9971	0.023

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	102.110					
Sc	45		99.3				
Ni	60	114.740					
Ge	74		98.6				
As	75	116.332					
Se	77						
Se	82	118.441					
Kr	83						
Lu	175		99.0				
Tl	205	115.264					
U	238	122.939					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

Sample ID: QC Std 3

Report Date/Time: Monday, April 12, 2010 23:07:24

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, April 12, 2010 23:10:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 4.218

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.098	ug/L	23.614	32	0.000
[>	Sc	45		ug/L		625917	625917.064
[	Ni	60	2.740	ug/L	1.081	2547	0.004
[>	Ge	74		ug/L		260543	260543.071
[	As	75	-0.078	ug/L	519.695	-313	-0.000
[	Se	77		ug/L		4569	0.001
[	Se	82	-0.795	ug/L	60.137	-63	-0.000
[	Kr	83		ug/L		178	0.000
[>	Lu	175		ug/L		365199	365199.010
[	Tl	205	-0.059	ug/L	14.679	3371	-0.002
[	U	238	-0.018	ug/L	2.102	203	-0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
[>	Sc	45		90.8				
[	Ni	60	82.784					
[>	Ge	74		90.3				
[	As	75						
[	Se	77						
[	Se	82						
[	Kr	83						
[>	Lu	175		91.6				
[	Tl	205						
[	U	238						

QC Out Of Limits

Measurement Type Analyte

Mass Out of Limits Message

QC Action

Sample ID: QC Std 4

Report Date/Time: Monday, April 12, 2010 23:11:28

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, April 12, 2010 23:14:52

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anal soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 5.219

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	20.290	ug/L	8.369	3272	0.005
> Sc	45		ug/L		629359	629359.040
	Ni	60	21.124	0.465	19087	0.030
> Ge	74		ug/L		262929	262929.364
	As	75	19.741	3.485	13463	0.052
	Se	77			5305	0.004
	Se	82	19.410	5.111	1322	0.005
	Kr	83			178	0.000
> Lu	175		ug/L		367361	367361.451
	Tl	205	17.940	1.009	265546	0.711
	U	238	20.730	0.847	714082	1.942

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	101.448					
> Sc	45		91.2				
	Ni	60					
> Ge	74		91.1				
	As	75					
	Se	77					
	Se	82					
	Kr	83					
> Lu	175		92.1				
	Tl	205					
	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

Sample ID: QC Std 5

Report Date/Time: Monday, April 12, 2010 23:15:34

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 12, 2010 23:18:57

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soli.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 6.220

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	50.102	ug/L	7.754	8578	0.013
[> Sc	45		ug/L		670330	670329.705
[Ni	60	50.158	ug/L	1.809	48129	0.072
[> Ge	74		ug/L		274993	274993.315
[As	75	49.763	ug/L	3.476	35889	0.132
[Se	77		ug/L		6912	0.009
[Se	82	50.415	ug/L	3.503	3605	0.013
[Kr	83		ug/L		82	-0.000
[> Lu	175		ug/L		387013	387012.629
[Tl	205	46.178	ug/L	4.631	712686	1.831
[U	238	49.375	ug/L	2.876	1790300	4.625

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	100.204					
[> Sc	45		97.2				
[Ni	60	100.315					
[> Ge	74		95.3				
[As	75	99.525					
[Se	77						
[Se	82	100.830					
[Kr	83						
[> Lu	175		97.1				
[Tl	205	92.355					
[U	238	98.751					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

Sample ID: QC Std 6

Report Date/Time: Monday, April 12, 2010 23:19:39

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 12, 2010 23:23:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 7.221

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.005	ug/L	367.475	18	0.000
> Sc	45		ug/L		658460	658459.709
Ni	60	0.007	ug/L	83.616	109	0.000
> Ge	74		ug/L		279395	279395.287
As	75	0.175	ug/L	259.499	-148	0.000
Se	77		ug/L		4364	-0.001
Se	82	0.144	ug/L	82.488	1	0.000
Kr	83		ug/L		74	-0.000
> Lu	175		ug/L		388034	388033.938
Tl	205	0.390	ug/L	9.143	10491	0.015
U	238	0.003	ug/L	5.095	982	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		95.5				
Ni	60						
> Ge	74		96.8				
As	75						
Se	77						
Se	82						
Kr	83						
> Lu	175		97.3				
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: Monday, April 12, 2010 23:23:47

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, April 12, 2010 23:59:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 8.230

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	51.749	ug/L	7.610	8844	0.013
>	Sc	45		ug/L		669529	669528.541
[	Ni	60	49.613	ug/L	1.575	47544	0.071
>	Ge	74		ug/L		279201	279201.020
|	As	75	49.593	ug/L	3.526	36311	0.131
|	Se	77		ug/L		6762	0.008
|	Se	82	48.493	ug/L	2.118	3521	0.013
[	Kr	83		ug/L		79	-0.000
>	Lu	175		ug/L		380263	380262.747
|	Tl	205	47.082	ug/L	1.798	714202	1.867
[	U	238	49.364	ug/L	1.530	1759026	4.624

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	103.498					
>	Sc	45		97.1				
[	Ni	60	99.225					
>	Ge	74		96.7				
|	As	75	99.186					
|	Se	77						
|	Se	82	96.986					
[	Kr	83						
>	Lu	175		95.4				
|	Tl	205	94.165					
[	U	238	98.729					

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 00:00:38

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 00:04:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 9.231

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.013	ug/L	452.007	19	0.000
>	Sc	45		ug/L		667963	667962.831
[	Ni	60	-0.002	ug/L	418.642	102	-0.000
>	Ge	74		ug/L		275417	275417.313
|	As	75	0.094	ug/L	317.814	-205	0.000
|	Se	77		ug/L		4211	-0.001
|	Se	82	0.260	ug/L	46.424	9	0.000
[	Kr	83		ug/L		77	-0.000
>	Lu	175		ug/L		382378	382377.574
|	Tl	205	0.229	ug/L	13.953	7891	0.009
[	U	238	0.003	ug/L	19.306	981	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
>	Sc	45		96.8				
[	Ni	60						
>	Ge	74		95.4				
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
>	Lu	175		95.9				
|	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 00:04:46

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 00:40:59

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nani soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 8.240

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	51.359	ug/L	6.455	8821	0.013
> Sc	45		ug/L		672682	672682.304
Ni	60	47.873	ug/L	1.009	46102	0.068
> Ge	74		ug/L		273378	273378.264
As	75	48.871	ug/L	2.898	35043	0.129
Se	77		ug/L		6223	0.006
Se	82	48.876	ug/L	0.983	3475	0.013
Kr	83		ug/L		83	-0.000
> Lu	175		ug/L		381710	381710.253
Tl	205	46.848	ug/L	2.380	713279	1.857
U	238	48.647	ug/L	1.518	1739979	4.557

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	102.719					
> Sc	45		97.5				
Ni	60	95.747					
> Ge	74		94.7				
As	75	97.741					
Se	77						
Se	82	97.751					
Kr	83						
> Lu	175		95.7				
Tl	205	93.695					
U	238	97.293					

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 00:41:41

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 00:45:06

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\VanI soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 9.241

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.030	ug/L	7.441	22	0.000
[> Sc	45		ug/L		651803	651802.931
[Ni	60	-0.004	ug/L	395.930	98	-0.000
[> Ge	74		ug/L		266848	266847.626
[As	75	0.370	ug/L	40.052	-4	0.001
[Se	77		ug/L		3704	-0.003
[Se	82	0.216	ug/L	70.196	6	0.000
[Kr	83		ug/L		78	-0.000
[> Lu	175		ug/L		370736	370736.068
[Tl	205	0.165	ug/L	17.931	6707	0.007
[U	238	0.004	ug/L	34.752	978	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		94.5				
[Ni	60						
[> Ge	74		92.5				
[As	75						
[Se	77						
[Se	82						
[Kr	83						
[> Lu	175		93.0				
[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 00:45:49

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056924

Sample Date/Time: Tuesday, April 13, 2010 00:49:13

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 959129|2|prb

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\1202056924.242

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.017	ug/L	16.316	19	0.000
[> Sc	45		ug/L		647518	647517.659
[Ni	60	0.081	ug/L	27.377	176	0.000
[> Ge	74		ug/L		259049	259048.555
[As	75	0.293	ug/L	23.409	-57	0.001
[Se	77		ug/L		2770	-0.006
[Se	82	0.446	ug/L	68.000	21	0.000
[Kr	83		ug/L		80	-0.000
[> Lu	175		ug/L		366898	366898.282
[Tl	205	-0.057	ug/L	14.599	3415	-0.002
[U	238	-0.019	ug/L	1.883	173	-0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[Be	9					
[> Sc	45		93.9			
[Ni	60					
[> Ge	74		89.8			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
[> Lu	175		92.0			
[Tl	205					
[U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

Sample ID: 1202056924

Report Date/Time: Tuesday, April 13, 2010 00:49:55

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056929

Sample Date/Time: Tuesday, April 13, 2010 00:53:20

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 959129|40|prb

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\1202056929.243

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	20.091	ug/L	5.770	3407	0.005
[> Sc	45		ug/L		662243	662243.127
[Ni	60	33.227	ug/L	1.656	31528	0.047
[> Ge	74		ug/L		271642	271642.337
[As	75	25.389	ug/L	4.356	17961	0.067
[Se	77		ug/L		7366	0.011
[Se	82	69.017	ug/L	2.066	4881	0.018
[Kr	83		ug/L		75	-0.000
[> Lu	175		ug/L		376868	376868.443
[Tl	205	30.237	ug/L	2.015	456104	1.199
[U	238	0.453	ug/L	1.822	16825	0.042

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		96.0				
[Ni	60						
[> Ge	74		94.1				
[As	75						
[Se	77						
[Se	82						
[Kr	83						
[> Lu	175		94.5				
[Tl	205						
[U	238						

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

Sample ID: 1202056929

Report Date/Time: Tuesday, April 13, 2010 00:54:02

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248198001

Sample Date/Time: Tuesday, April 13, 2010 00:57:26

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959129|2|prb

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\248198001.244

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	3.632	ug/L	10.605	661	0.001
> Sc	45		ug/L		695034	695034.363
Ni	60	26.198	ug/L	5.899	26106	0.037
> Ge	74		ug/L		259619	259619.307
As	75	8.769	ug/L	2.798	5759	0.023
Se	77		ug/L		2730	-0.006
Se	82	1.752	ug/L	9.405	110	0.000
Kr	83		ug/L		150	0.000
> Lu	175		ug/L		383598	383598.244
Tl	205	0.540	ug/L	7.324	12641	0.021
U	238	7.290	ug/L	7.820	262303	0.683

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		90.0				
As	75						
Se	77						
Se	82						
Kr	83						
> Lu	175		96.2				
Tl	205						
U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

Sample ID: 248198001

Report Date/Time: Tuesday, April 13, 2010 00:58:08

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056925

Sample Date/Time: Tuesday, April 13, 2010 01:01:33

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 959129|2|prb

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\1202056925.245

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	3.306	ug/L	8.376	603	0.001
> Sc	45		ug/L		694281	694280.778
[Ni	60	22.660	ug/L	1.425	22579	0.032
> Ge	74		ug/L		258855	258854.856
| As	75	7.753	ug/L	5.386	5045	0.020
| Se	77		ug/L		2608	-0.006
| Se	82	1.462	ug/L	16.193	90	0.000
[Kr	83		ug/L		141	0.000
> Lu	175		ug/L		378153	378153.076
| Tl	205	0.328	ug/L	2.606	9300	0.013
[U	238	6.334	ug/L	1.285	225171	0.593

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		100.7			
[Ni	60					
> Ge	74		89.7			
| As	75					
| Se	77					
| Se	82					
[Kr	83					
> Lu	175		94.8			
| Tl	205					
[U	238					

QC Out Of Limits

Measurement Type Analyte

Mass Out of Limits Message

QC Action

Sample ID: 1202056925

Report Date/Time: Tuesday, April 13, 2010 01:02:15

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056927

Sample Date/Time: Tuesday, April 13, 2010 01:05:39

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 959129|2|prb

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\1202056927.246

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	26.320	ug/L	6.744	4739	0.007
Sc	45		ug/L		703944	703944.046
Ni	60	47.548	ug/L	3.518	47898	0.068
Ge	74		ug/L		261342	261342.349
As	75	44.079	ug/L	1.723	30187	0.117
Se	77		ug/L		2948	-0.005
Se	82	9.436	ug/L	8.660	634	0.002
Kr	83		ug/L		156	0.000
Lu	175		ug/L		385126	385126.024
Tl	205	43.732	ug/L	2.642	672034	1.734
U	238	30.790	ug/L	2.618	1111218	2.884

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		102.1				
Ni	60						
Ge	74		90.6				
As	75						
Se	77						
Se	82						
Kr	83						
Lu	175		96.6				
Tl	205						
U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

Sample ID: 1202056927

Report Date/Time: Tuesday, April 13, 2010 01:06:22

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056928

Sample Date/Time: Tuesday, April 13, 2010 01:09:46

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 959129|2|prb

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100412\1202056928.247

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	27.763	ug/L	7.261	4981	0.007
[>	Sc	45		ug/L		701662	701662.007
[	Ni	60	50.022	ug/L	2.257	50233	0.071
[>	Ge	74		ug/L		261638	261638.139
|	As	75	44.255	ug/L	3.752	30344	0.117
|	Se	77		ug/L		2966	-0.005
|	Se	82	8.980	ug/L	3.253	604	0.002
[	Kr	83		ug/L		166	0.000
[>	Lu	175		ug/L		382619	382618.516
|	Tl	205	45.417	ug/L	2.204	693216	1.801
[	U	238	34.168	ug/L	1.002	1225293	3.200

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		101.7				
[	Ni	60						
[>	Ge	74		90.7				
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175		96.0				
|	Tl	205						
[	U	238						

QC Out Of Limits

Measurement Type Analyte

Mass Out of Limits Message

QC Action

Sample ID: 1202056928

Report Date/Time: Tuesday, April 13, 2010 01:10:29

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056926

Sample Date/Time: Tuesday, April 13, 2010 01:13:53

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 959129|10|prb

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\1202056926.248

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.764	ug/L	3.630	151	0.000
[> Sc	45		ug/L		683972	683972.284
[Ni	60	5.600	ug/L	0.773	5578	0.008
[> Ge	74		ug/L		271410	271410.425
[As	75	1.993	ug/L	21.273	1162	0.005
[Se	77		ug/L		3084	-0.005
[Se	82	0.489	ug/L	38.481	26	0.000
[Kr	83		ug/L		92	0.000
[> Lu	175		ug/L		378558	378558.423
[Tl	205	0.013	ug/L	58.887	4583	0.001
[U	238	1.503	ug/L	2.387	54147	0.141

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		99.2			
[Ni	60					
[> Ge	74		94.0			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
[> Lu	175		95.0			
[Tl	205					
[U	238					

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

Sample ID: 1202056926

Report Date/Time: Tuesday, April 13, 2010 01:14:36

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 01:18:00

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anl soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 8.249

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	53.234	ug/L	5.856	9008	0.014
[>	Sc	45		ug/L		662577	662576.672
[	Ni	60	49.254	ug/L	1.165	46712	0.070
[>	Ge	74		ug/L		268978	268978.100
[	As	75	50.140	ug/L	2.032	35379	0.133
[	Se	77		ug/L		5849	0.005
[	Se	82	50.210	ug/L	2.819	3513	0.013
[	Kr	83		ug/L		81	-0.000
[>	Lu	175		ug/L		369424	369423.620
[	Tl	205	47.851	ug/L	1.850	704974	1.897
[	U	238	50.948	ug/L	2.695	1763129	4.772

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	106.469					
[>	Sc	45		96.1				
[	Ni	60	98.508					
[>	Ge	74		93.2				
[	As	75	100.280					
[	Se	77						
[	Se	82	100.421					
[	Kr	83						
[>	Lu	175		92.7				
[	Tl	205	95.702					
[	U	238	101.896					

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 01:18:42

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 01:22:06

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 9.250

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.109	ug/L	100.872	36	0.000
[> Sc	45		ug/L		669995	669994.778
[Ni	60	0.087	ug/L	56.467	187	0.000
[> Ge	74		ug/L		271579	271578.870
[As	75	0.656	ug/L	42.993	200	0.002
[Se	77		ug/L		3451	-0.004
[Se	82	0.346	ug/L	57.038	15	0.000
[Kr	83		ug/L		83	-0.000
[> Lu	175		ug/L		372475	372475.029
[Tl	205	0.810	ug/L	19.413	16281	0.032
[U	238	0.094	ug/L	60.566	4141	0.009

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		97.1				
[Ni	60						
[> Ge	74		94.1				
[As	75						
[Se	77						
[Se	82						
[Kr	83						
[> Lu	175		93.4				
[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 01:22:49

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248198002

Sample Date/Time: Tuesday, April 13, 2010 01:26:14

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959129|2|prb

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\248198002.251

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.013	ug/L	216.811	20	0.000
> Sc	45		ug/L		680195	680194.870
Ni	60	-0.048	ug/L	27.116	59	-0.000
> Ge	74		ug/L		276602	276601.518
As	75	0.454	ug/L	98.097	64	0.001
Se	77		ug/L		1290	-0.012
Se	82	0.025	ug/L	468.253	-7	0.000
Kr	83		ug/L		55	-0.000
> Lu	175		ug/L		374881	374880.883
Tl	205	-0.149	ug/L	8.292	2122	-0.006
U	238	-0.019	ug/L	1.839	167	-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 % Di	Duplicate Rel. % Difference
Be	9					
> Sc	45		98.6			
Ni	60					
> Ge	74		95.8			
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175		94.0			
Tl	205					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

Sample ID: 248198002

Report Date/Time: Tuesday, April 13, 2010 01:26:57

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248198003

Sample Date/Time: Tuesday, April 13, 2010 01:30:21

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959129|2|prb

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\248198003.252

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	3.720	ug/L	84.623	609	0.001
[> Sc	45		ug/L		625132	625132.099
[Ni	60	10.794	ug/L	9.914	9709	0.015
[> Ge	74		ug/L		260533	260533.210
[As	75	5.586	ug/L	46.876	3633	0.015
[Se	77		ug/L		1916	-0.009
[Se	82	2.203	ug/L	111.657	141	0.001
[Kr	83		ug/L		306	0.001
[> Lu	175		ug/L		357047	357046.595
[Tl	205	2.662	ug/L	97.467	40483	0.106
[U	238	4.812	ug/L	80.852	156957	0.451

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		90.6			
[Ni	60					
[> Ge	74		90.3			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
[> Lu	175		89.6			
[Tl	205					
[U	238					

QC Out Of Limits

Measurement Type Analyte

Mass Out of Limits Message

QC Action

Sample ID: 248198003

Report Date/Time: Tuesday, April 13, 2010 01:31:04

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248198004

Sample Date/Time: Tuesday, April 13, 2010 01:34:28

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959129|2|prb

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100412\248198004.253

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	4.508	ug/L	8.744	848	0.001
> Sc	45		ug/L		722567	722567.290
Ni	60	24.309	ug/L	0.814	25200	0.035
> Ge	74		ug/L		265112	265112.049
As	75	7.475	ug/L	5.539	4975	0.020
Se	77		ug/L		2348	-0.008
Se	82	0.196	ug/L	112.253	5	0.000
Kr	83		ug/L		169	0.000
> Lu	175		ug/L		391956	391956.375
Tl	205	0.406	ug/L	5.244	10850	0.016
U	238	5.828	ug/L	0.265	214824	0.546

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		104.8			
Ni	60					
> Ge	74		91.9			
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175		98.3			
Tl	205					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

Sample ID: 248198004

Report Date/Time: Tuesday, April 13, 2010 01:35:11

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248198005

Sample Date/Time: Tuesday, April 13, 2010 01:38:35

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959129|2|prb

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\248198005.254

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	3.468	ug/L	6.816	643	0.001
|>	Sc	45		ug/L		707598	707598.487
[	Ni	60	23.857	ug/L	1.268	24220	0.034
|>	Ge	74		ug/L		260895	260894.786
|	As	75	8.293	ug/L	5.894	5459	0.022
|	Se	77		ug/L		2311	-0.008
|	Se	82	0.352	ug/L	26.570	15	0.000
[	Kr	83		ug/L		140	0.000
|>	Lu	175		ug/L		378239	378238.792
|	Tl	205	0.438	ug/L	4.064	10939	0.017
[	U	238	7.057	ug/L	2.546	250812	0.661

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		102.6		
[	Ni	60				
|>	Ge	74		90.4		
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
|>	Lu	175		94.9		
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

Sample ID: 248198005

Report Date/Time: Tuesday, April 13, 2010 01:39:18

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248198006

Sample Date/Time: Tuesday, April 13, 2010 01:42:43

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959129|2|prb

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\248198006.255

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	2.188	ug/L	8.192	398	0.001
|>	Sc	45		ug/L		681938	681938.373
[	Ni	60	16.508	ug/L	2.161	16185	0.024
|>	Ge	74		ug/L		257197	257197.328
|	As	75	5.743	ug/L	5.486	3650	0.015
|	Se	77		ug/L		2111	-0.008
|	Se	82	0.188	ug/L	124.593	4	0.000
[	Kr	83		ug/L		128	0.000
|>	Lu	175		ug/L		369234	369233.678
|	Tl	205	0.232	ug/L	6.064	7668	0.009
[	U	238	2.887	ug/L	2.653	100646	0.270

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		98.9			
[	Ni	60					
|>	Ge	74		89.1			
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
|>	Lu	175		92.6			
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

Sample ID: 248198006

Report Date/Time: Tuesday, April 13, 2010 01:43:25

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248198007

Sample Date/Time: Tuesday, April 13, 2010 01:46:50

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959129|2|prb

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\248198007.256

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	4.349	ug/L	9.319	817	0.001
> Sc	45		ug/L		720697	720697.302
Ni	60	26.805	ug/L	2.175	27695	0.038
> Ge	74		ug/L		260260	260260.191
As	75	7.796	ug/L	4.086	5104	0.021
Se	77		ug/L		2188	-0.008
Se	82	-0.046	ug/L	526.677	-12	-0.000
Kr	83		ug/L		171	0.000
> Lu	175		ug/L		386850	386850.335
Tl	205	0.305	ug/L	2.762	9149	0.012
U	238	8.534	ug/L	1.229	310121	0.799

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		104.5			
Ni	60					
> Ge	74		90.2			
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175		97.0			
Tl	205					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

Sample ID: 248198007

Report Date/Time: Tuesday, April 13, 2010 01:47:33

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 01:50:57

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 8.257

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	52.525	ug/L	7.092	9106	0.013
> Sc	45		ug/L		678604	678604.189
Ni	60	48.009	ug/L	1.437	46636	0.069
> Ge	74		ug/L		274053	274052.944
As	75	48.834	ug/L	0.605	35106	0.129
Se	77		ug/L		5637	0.004
Se	82	48.824	ug/L	1.971	3481	0.013
Kr	83		ug/L		89	0.000
> Lu	175		ug/L		377956	377955.547
Tl	205	47.437	ug/L	1.892	715153	1.881
U	238	49.491	ug/L	1.753	1752815	4.636

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	105.051					
> Sc	45		98.4				
Ni	60	96.018					
> Ge	74		95.0				
As	75	97.668					
Se	77						
Se	82	97.648					
Kr	83						
> Lu	175		94.8				
Tl	205	94.874					
U	238	98.982					

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 01:51:39

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 01:55:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nani soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 9.258

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.079	ug/L	96.152	30	0.000
|>	Sc	45		ug/L		663647	663647.106
[	Ni	60	0.102	ug/L	61.986	200	0.000
[>	Ge	74		ug/L		270613	270612.503
|	As	75	0.316	ug/L	55.981	-43	0.001
|	Se	77		ug/L		3147	-0.005
|	Se	82	0.129	ug/L	131.687	-0	0.000
[	Kr	83		ug/L		87	0.000
[>	Lu	175		ug/L		376519	376518.517
|	Tl	205	0.757	ug/L	19.158	15644	0.030
[	U	238	0.085	ug/L	52.529	3821	0.008

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		96.2		
[	Ni	60				
[>	Ge	74		93.8		
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
[>	Lu	175		94.4		
|	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 01:55:46

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248198009

Sample Date/Time: Tuesday, April 13, 2010 02:03:19

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959129|2|prb

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\248198009.260

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.225	ug/L	10.085	405	0.001
> Sc	45		ug/L		683404	683403.803
Ni	60	17.416	ug/L	1.513	17106	0.025
> Ge	74		ug/L		259414	259413.900
As	75	7.530	ug/L	4.293	4906	0.020
Se	77		ug/L		2337	-0.008
Se	82	0.575	ug/L	49.288	30	0.000
Kr	83		ug/L		122	0.000
> Lu	175		ug/L		369585	369584.579
Tl	205	0.429	ug/L	13.600	10557	0.017
U	238	5.825	ug/L	2.593	202426	0.546

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Be	9					
> Sc	45		99.1			
Ni	60					
> Ge	74		89.9			
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175		92.7			
Tl	205					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

Sample ID: 248198009

Report Date/Time: Tuesday, April 13, 2010 02:04:02

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248198010

Sample Date/Time: Tuesday, April 13, 2010 02:07:27

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959129|2|prb

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\248198010.261

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	3.001	ug/L	12.259	553	0.001
> Sc	45		ug/L		700056	700055.600
[Ni	60	25.495	ug/L	0.377	25601	0.036
> Ge	74		ug/L		258681	258681.443
[As	75	6.893	ug/L	4.029	4456	0.018
[Se	77		ug/L		2229	-0.008
[Se	82	-0.107	ug/L	316.659	-16	-0.000
[Kr	83		ug/L		152	0.000
> Lu	175		ug/L		379294	379294.498
[Tl	205	0.419	ug/L	7.892	10686	0.017
[U	238	5.614	ug/L	0.686	200300	0.526

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		101.5			
[Ni	60					
> Ge	74		89.6			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
> Lu	175		95.1			
[Tl	205					
[U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

Sample ID: 248198010

Report Date/Time: Tuesday, April 13, 2010 02:08:09

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248198011

Sample Date/Time: Tuesday, April 13, 2010 02:11:34

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959129|2|prb

Method File: c:\elandata\Method\ant soil.mth

Dataset File: C:\elandata\Dataset\100412\248198011.262

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	3.058	ug/L	6.339	555	0.001
[>	Sc	45		ug/L		689687	689686.766
[	Ni	60	20.404	ug/L	1.498	20206	0.029
[>	Ge	74		ug/L		258563	258562.536
[	As	75	6.792	ug/L	4.611	4388	0.018
[	Se	77		ug/L		2263	-0.008
[	Se	82	0.100	ug/L	251.947	-2	0.000
[	Kr	83		ug/L		147	0.000
[>	Lu	175		ug/L		374012	374011.615
[	Tl	205	0.297	ug/L	1.901	8739	0.012
[	U	238	6.854	ug/L	2.006	240958	0.642

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		100.0		
[	Ni	60				
[>	Ge	74		89.6		
[	As	75				
[	Se	77				
[	Se	82				
[	Kr	83				
[>	Lu	175		93.8		
[	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

Sample ID: 248198011

Report Date/Time: Tuesday, April 13, 2010 02:12:17

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248198012

Sample Date/Time: Tuesday, April 13, 2010 02:15:42

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959129|2|prb

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100412\248198012.263

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.636	ug/L	15.026	483	0.001
> Sc	45		ug/L		692913	692913.114
Ni	60	21.158	ug/L	2.100	21046	0.030
> Ge	74		ug/L		258042	258042.424
As	75	8.551	ug/L	3.630	5576	0.023
Se	77		ug/L		2275	-0.008
Se	82	0.257	ug/L	176.137	9	0.000
Kr	83		ug/L		145	0.000
> Lu	175		ug/L		374442	374441.901
Tl	205	0.293	ug/L	2.589	8684	0.012
U	238	13.943	ug/L	2.572	489767	1.306

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		100.5			
Ni	60					
> Ge	74		89.4			
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175		93.9			
Tl	205					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

Sample ID: 248198012

Report Date/Time: Tuesday, April 13, 2010 02:16:25

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 02:19:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soll.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 6.264

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	51.900	ug/L	6.733	8742	0.013
[> Sc	45		ug/L		659641	659640.911
[Ni	60	48.078	ug/L	1.212	45397	0.069
[> Ge	74		ug/L		268780	268779.794
[As	75	48.395	ug/L	3.338	34113	0.128
[Se	77		ug/L		5564	0.004
[Se	82	48.802	ug/L	0.797	3412	0.013
[Kr	83		ug/L		98	0.000
[> Lu	175		ug/L		374956	374956.446
[Tl	205	47.040	ug/L	0.928	703698	1.865
[U	238	48.892	ug/L	0.844	1717954	4.580

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	103.801					
[> Sc	45		95.6				
[Ni	60	96.155					
[> Ge	74		93.1				
[As	75	96.791					
[Se	77						
[Se	82	97.604					
[Kr	83						
[> Lu	175		94.0				
[Tl	205	94.081					
[U	238	97.785					

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 02:20:30

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 02:23:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nanl soll.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 7.265

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.008	ug/L	320.754	18	0.000
> Sc	45		ug/L		639892	639892.080
Ni	60	-0.001	ug/L	879.267	99	-0.000
> Ge	74		ug/L		261615	261615.032
As	75	0.383	ug/L	69.029	7	0.001
Se	77		ug/L		3041	-0.005
Se	82	-0.135	ug/L	116.138	-18	-0.000
Kr	83		ug/L		92	0.000
> Lu	175		ug/L		365153	365152.721
Tl	205	0.130	ug/L	15.602	6110	0.005
U	238	0.008	ug/L	37.472	1098	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		92.8				
Ni	60						
> Ge	74		90.7				
As	75						
Se	77						
Se	82						
Kr	83						
> Lu	175		91.6				
Tl	205						
U	238						

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

Sample ID: QC Std 7

Report Date/Time: Tuesday, April 13, 2010 02:24:38

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, April 13, 2010 04:35:26

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\Blank.337

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9		ug/L			13
[> Sc	45		ug/L		636880	
[Ni	60		ug/L		92	
[> Ge	74		ug/L		262644	
[As	75		ug/L		-165	
[Se	77		ug/L		2883	
[Se	82		ug/L		14	
[Kr	83		ug/L		76	
[> Lu	175		ug/L		364553	
[Tl	205		ug/L		2350	
[U	238		ug/L		1069	

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	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 Mass Out of Limits Message

QC Action

Sample ID: Blank

Report Date/Time: Tuesday, April 13, 2010 04:36:09

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 04:39:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anal soil.mth

Dataset File: C:\elandata\Dataset\100412\Standard 1.338

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	10.000	ug/L	7.732	1803	0.003
|>	Sc	45		ug/L		646994	646993.536
[	Ni	60	10.000	ug/L	1.697	8928	0.014
[>	Ge	74		ug/L		263092	263092.313
|	As	75	10.000	ug/L	2.553	6748	0.026
|	Se	77		ug/L		3468	0.002
|	Se	82	10.000	ug/L	8.824	643	0.002
[	Kr	83		ug/L		89	0.000
[>	Lu	175		ug/L		368113	368112.856
|	Tl	205	10.000	ug/L	1.350	150718	0.403
[	U	238	10.000	ug/L	2.410	347813	0.942

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						
[	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

QC Action

Sample ID: Standard 1

Report Date/Time: Tuesday, April 13, 2010 04:40:12

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 04:43:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\Standard 2.339

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	99.961	ug/L	6.318	17423	0.027
Sc	45		ug/L		653753	653752.835
Ni	60	100.005	ug/L	1.484	89803	0.137
Ge	74		ug/L		267484	267483.596
As	75	99.979	ug/L	0.206	68639	0.257
Se	77		ug/L		8341	0.020
Se	82	100.057	ug/L	1.928	6810	0.025
Kr	83		ug/L		97	0.000
Lu	175		ug/L		369728	369727.866
Ti	205	99.947	ug/L	1.199	1416991	3.826
U	238	99.958	ug/L	0.422	3343602	9.041

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						
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

MassOut of Limits Message

QC Action

Sample ID: Standard 2

Report Date/Time: Tuesday, April 13, 2010 04:44:15

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 04:47:38

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 1.340

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	48.702	ug/L	3.905	8649	0.013
[> Sc	45		ug/L		665019	665019.026
[Ni	60	50.977	ug/L	3.285	46601	0.070
[> Ge	74		ug/L		270569	270568.970
[As	75	51.071	ug/L	1.910	35385	0.131
[Se	77		ug/L		5932	0.011
[Se	82	51.094	ug/L	3.986	3525	0.013
[Kr	83		ug/L		90	0.000
[> Lu	175		ug/L		372609	372608.586
[Tl	205	49.399	ug/L	1.575	707036	1.891
[U	238	50.377	ug/L	0.508	1698872	4.556

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	97.404				
[> Sc	45		104.4			
[Ni	60	101.953				
[> Ge	74		103.0			
[As	75	102.142				
[Se	77					
[Se	82	102.188				
[Kr	83					
[> Lu	175		102.2			
[Tl	205	98.798				
[U	238	100.753				

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

Sample ID: QC Std 1

Report Date/Time: Tuesday, April 13, 2010 04:48:19

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 04:51:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 2.341

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.035	ug/L	92.496	19	0.000
[> Sc	45		ug/L		662668	662668.286
[Ni	60	0.018	ug/L	20.097	112	0.000
[> Ge	74		ug/L		268584	268584.349
| As	75	0.064	ug/L	424.916	-124	0.000
| Se	77		ug/L		3275	0.001
| Se	82	-0.171	ug/L	31.004	2	-0.000
[Kr	83		ug/L		76	-0.000
[> Lu	175		ug/L		368208	368207.637
| Tl	205	0.335	ug/L	5.878	7089	0.013
[U	238	0.004	ug/L	25.261	1197	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 % Di	Duplicate Rel.	% Difference
[Be	9						
[> Sc	45		104.0				
[Ni	60						
[> Ge	74		102.3				
| As	75						
| Se	77						
| Se	82						
[Kr	83						
[> Lu	175		101.0				
| 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 04:52:27

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 04:55:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 3.342

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.556	ug/L	8.432	113	0.000
Sc	45		ug/L		669626	669626.403
Ni	60	2.274	ug/L	1.226	2186	0.003
Ge	74		ug/L		272671	272670.705
As	75	5.995	ug/L	1.771	4035	0.015
Se	77		ug/L		3593	0.002
Se	82	5.518	ug/L	0.973	396	0.001
Kr	83		ug/L		84	0.000
Lu	175		ug/L		372570	372570.304
Ti	205	1.255	ug/L	2.917	20295	0.048
U	238	0.249	ug/L	2.543	9480	0.023

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	
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	111.227					
Sc	45		105.1				
Ni	60	113.689					
Ge	74		103.8				
As	75	119.905					
Se	77						
Se	82	110.361					
Kr	83						
Lu	175		102.2				
Ti	205	125.490					
U	238	124.478					

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

Sample ID: QC Std 3

Report Date/Time: Tuesday, April 13, 2010 04:56:31

Page 1

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 04:59:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani sol.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 4.343

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.140	ug/L	25.384	37	0.000
[>	Sc	45		ug/L		648740	648739.530
[	Ni	60	2.916	ug/L	6.591	2688	0.004
[>	Ge	74		ug/L		262928	262927.881
[	As	75	-0.209	ug/L	67.396	-307	-0.001
[	Se	77		ug/L		5009	0.008
[	Se	82	-1.176	ug/L	28.403	-65	-0.000
[	Kr	83		ug/L		173	0.000
[>	Lu	175		ug/L		361804	361804.028
[	Tl	205	0.005	ug/L	57.623	2405	0.000
[	U	238	-0.025	ug/L	1.393	247	-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		101.9			
[	Ni	60	88.098				
[>	Ge	74		100.1			
[	As	75					
[	Se	77					
[	Se	82					
[	Kr	83					
[>	Lu	175		99.2			
[	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 05:00:35

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 05:03:59

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 5.344

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	18.999	ug/L	6.911	3265	0.005
[>	Sc	45		ug/L		642350	642349.870
[	Ni	60	21.885	ug/L	2.665	19381	0.030
[>	Ge	74		ug/L		259261	259260.706
|	As	75	20.448	ug/L	2.504	13478	0.053
|	Se	77		ug/L		5703	0.011
|	Se	82	19.843	ug/L	3.283	1320	0.005
[	Kr	83		ug/L		179	0.000
[>	Lu	175		ug/L		360922	360921.693
|	Tl	205	18.783	ug/L	2.781	261794	0.719
[	U	238	21.208	ug/L	1.735	693254	1.918

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	94.997					
[>	Sc	45		100.9				
[	Ni	60	93.888					
[>	Ge	74		98.7				
|	As	75	102.242					
|	Se	77						
|	Se	82	99.213					
[	Kr	83						
[>	Lu	175		99.0				
|	Tl	205	93.917					
[	U	238	106.040					

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 05:04:41

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 05:08:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nani soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 6.345

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	47.838	ug/L	2.858	8555	0.013
|> Sc	45		ug/L		669701	669701.487
| Ni	60	52.572	ug/L	1.109	48409	0.072
[> Ge	74		ug/L		277074	277074.250
| As	75	52.541	ug/L	1.671	37280	0.135
| Se	77		ug/L		7196	0.015
| Se	82	51.389	ug/L	2.464	3630	0.013
| Kr	83		ug/L		74	-0.000
[> Lu	175		ug/L		375466	375466.318
| Tl	205	48.248	ug/L	0.646	695911	1.847
| U	238	51.750	ug/L	3.069	1757938	4.680

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	95.677					
|> Sc	45		105.2				
| Ni	60	105.143					
[> Ge	74		105.5				
| As	75	105.081					
| Se	77						
| Se	82	102.777					
| Kr	83						
[> Lu	175		103.0				
| Tl	205	96.495					
| U	238	103.500					

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 05:08:46

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 05:12:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nani soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 7.346

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.059	ug/L	44.223	24	0.000
Sc	45		ug/L		675909	675908.722
Ni	60	0.005	ug/L	313.110	102	0.000
Ge	74		ug/L		279713	279712.957
As	75	-0.174	ug/L	172.775	-300	-0.000
Se	77		ug/L		4317	0.004
Se	82	-0.257	ug/L	100.313	-4	-0.000
Kr	83		ug/L		84	0.000
Lu	175		ug/L		384144	384143.590
Ti	205	0.512	ug/L	4.768	10005	0.020
U	238	0.003	ug/L	39.781	1247	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	
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 % Di	Duplicate Rel. % Difference
Be	9					
Sc	45		106.1			
Ni	60					
Ge	74		106.5			
As	75					
Se	77					
Se	82					
Kr	83					
Lu	175		105.4			
Ti	205					
U	238					

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

Sample ID: QC Std 7

Report Date/Time: Tuesday, April 13, 2010 05:12:54

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 05:49:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nani soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 8.355

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	49.800	ug/L	7.799	7886	0.013
[> Sc	45		ug/L		594068	594067.860
[Ni	60	51.251	ug/L	3.168	41837	0.070
[> Ge	74		ug/L		245872	245872.270
[As	75	51.161	ug/L	5.384	32192	0.132
[Se	77		ug/L		5560	0.012
[Se	82	51.026	ug/L	2.144	3198	0.013
[Kr	83		ug/L		90	0.000
[> Lu	175		ug/L		336681	336680.647
[Tl	205	49.214	ug/L	3.638	636144	1.884
[U	238	52.056	ug/L	1.782	1585903	4.708

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	99.600				
[> Sc	45		93.3			
[Ni	60	102.502				
[> Ge	74		93.6			
[As	75	102.323				
[Se	77					
[Se	82	102.053				
[Kr	83					
[> Lu	175		92.4			
[Tl	205	98.428				
[U	238	104.112				

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 05:49:46

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 05:53:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nani soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 9.356

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.040	ug/L	75.621	20	0.000
> Sc	45		ug/L		654587	654587.196
Ni	60	0.003	ug/L	281.668	97	0.000
> Ge	74		ug/L		259903	259903.289
As	75	0.637	ug/L	123.963	246	0.002
Se	77		ug/L		3358	0.002
Se	82	-0.131	ug/L	186.445	5	-0.000
Kr	83		ug/L		77	0.000
> Lu	175		ug/L		365976	365975.913
Tl	205	0.417	ug/L	7.001	8195	0.016
U	238	0.002	ug/L	15.896	1151	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		102.8			
Ni	60					
> Ge	74		99.0			
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175		100.4			
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 05:53:53

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 06:30:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 8.365

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	47.697	ug/L	2.669	8174	0.013
>	Sc	45		ug/L		642198	642197.698
[	Ni	60	48.907	ug/L	3.273	43217	0.067
>	Ge	74		ug/L		263115	263114.764
|	As	75	48.339	ug/L	4.337	32585	0.124
|	Se	77		ug/L		5363	0.009
|	Se	82	46.773	ug/L	9.306	3144	0.012
[	Kr	83		ug/L		99	0.000
>	Lu	175		ug/L		363727	363726.923
|	Tl	205	46.811	ug/L	6.573	654944	1.792
[	U	238	50.019	ug/L	4.224	1647733	4.524

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	95.395					
>	Sc	45		100.8				
[	Ni	60	97.815					
>	Ge	74		100.2				
|	As	75	96.678					
|	Se	77						
|	Se	82	93.546					
[	Kr	83						
>	Lu	175		99.8				
|	Tl	205	93.622					
[	U	238	100.038					

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 06:30:49

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 06:34:14

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 9.366

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.047	ug/L	22.643	21	0.000
> Sc	45		ug/L		635958	635958.002
Ni	60	0.015	ug/L	133.727	105	0.000
> Ge	74		ug/L		261464	261464.297
As	75	-0.049	ug/L	192.647	-196	-0.000
Se	77		ug/L		3122	0.001
Se	82	-0.423	ug/L	13.231	-14	-0.000
Kr	83		ug/L		87	0.000
> Lu	175		ug/L		362436	362436.010
Tl	205	0.356	ug/L	3.460	7269	0.014
U	238	0.003	ug/L	41.438	1173	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		99.9				
Ni	60						
> Ge	74		99.6				
As	75						
Se	77						
Se	82						
Kr	83						
> Lu	175		99.4				
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 06:34:57

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 07:07:08

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 8.374

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	50.367	ug/L	7.743	8559	0.013
Sc	45		ug/L		636916	636915.812
Ni	60	51.145	ug/L	0.759	44791	0.070
Ge	74		ug/L		259227	259227.188
As	75	51.099	ug/L	2.967	33913	0.131
Se	77		ug/L		5586	0.011
Se	82	51.402	ug/L	2.626	3397	0.013
Kr	83		ug/L		99	0.000
Lu	175		ug/L		358387	358387.146
Tl	205	49.690	ug/L	1.993	684020	1.902
U	238	52.210	ug/L	1.348	1693388	4.722

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	100.735					
Sc	45		100.0				
Ni	60	102.289					
Ge	74		98.7				
As	75	102.198					
Se	77						
Se	82	102.805					
Kr	83						
Lu	175		98.3				
Tl	205	99.380					
U	238	104.419					

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 07:07:50

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 07:11:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 9.375

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.030	ug/L	65.829	17	0.000
> Sc	45		ug/L		620685	620684.938
Ni	60	0.009	ug/L	299.347	97	0.000
> Ge	74		ug/L		257192	257192.375
As	75	0.301	ug/L	32.078	39	0.001
Se	77		ug/L		2970	0.001
Se	82	-0.071	ug/L	373.457	9	-0.000
Kr	83		ug/L		82	0.000
> Lu	175		ug/L		350229	350228.826
Tl	205	0.416	ug/L	6.274	7829	0.016
U	238	0.006	ug/L	9.617	1226	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		97.5			
Ni	60					
> Ge	74		97.9			
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175		96.1			
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 07:11:58

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 07:40:05

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anal soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 8.382

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	51.897	ug/L	8.692	8691	0.014
[>	Sc	45		ug/L		627886	627886.431
[	Ni	60	52.264	ug/L	1.334	45116	0.072
[>	Ge	74		ug/L		254559	254558.913
[	As	75	50.830	ug/L	0.557	33132	0.131
[	Se	77		ug/L		5223	0.010
[	Se	82	50.879	ug/L	0.670	3302	0.013
[	Kr	83		ug/L		98	0.000
[>	Lu	175		ug/L		355266	355266.056
[	Tl	205	49.854	ug/L	0.989	680344	1.908
[	U	238	53.122	ug/L	2.461	1707666	4.805

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9	103.794					
[>	Sc	45		98.6				
[	Ni	60	104.529					
[>	Ge	74		96.9				
[	As	75	101.659					
[	Se	77						
[	Se	82	101.758					
[	Kr	83						
[>	Lu	175		97.5				
[	Tl	205	99.708					
[	U	238	106.244					

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 07:40:47

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 07:44:12

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soli.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 9.383

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.035	ug/L	25.318	18	0.000
> Sc	45		ug/L		624688	624687.606
Ni	60	0.014	ug/L	163.750	102	0.000
> Ge	74		ug/L		254210	254210.414
As	75	-0.002	ug/L	22773.469	-160	-0.000
Se	77		ug/L		2729	-0.000
Se	82	-0.165	ug/L	38.875	3	-0.000
Kr	83		ug/L		84	0.000
> Lu	175		ug/L		349751	349750.909
Tl	205	0.375	ug/L	9.907	7276	0.014
U	238	0.006	ug/L	15.131	1201	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		98.1			
Ni	60					
> Ge	74		96.8			
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175		95.9			
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 07:44:55

Page 1

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 248198008

Sample Date/Time: Tuesday, April 13, 2010 07:48:20

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959129|2|prb

Method File: c:\elandata\Method\lanl soli.mth

Dataset File: C:\elandata\Dataset\100412\248198008.384

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	1.552	ug/L	8.111	281	0.000
|>	Sc	45		ug/L		646800	646800.098
[	Ni	60	17.520	ug/L	1.463	15643	0.024
[>	Ge	74		ug/L		245941	245940.992
|	As	75	4.883	ug/L	9.530	2935	0.013
|	Se	77		ug/L		2027	-0.003
|	Se	82	0.093	ug/L	378.739	19	0.000
[	Kr	83		ug/L		116	0.000
[>	Lu	175		ug/L		358579	358579.490
|	Tl	205	0.309	ug/L	4.424	6546	0.012
[	U	238	12.132	ug/L	2.587	394423	1.097

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	101.6			
[	Ni	60				
[>	Ge	74	93.6			
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
[>	Lu	175	98.4			
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte

Mass Out of Limits Message

QC Action

Sample ID: 248198008

Report Date/Time: Tuesday, April 13, 2010 07:49:02

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 08:08:57

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nani sol.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 6.389

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	51.524	ug/L	6.233	8517	0.014
Sc	45		ug/L		619451	619451.124
Ni	60	52.802	ug/L	2.344	44963	0.072
Ge	74		ug/L		252157	252157.090
As	75	51.890	ug/L	2.758	33495	0.134
Se	77		ug/L		5191	0.010
Se	82	51.483	ug/L	1.175	3310	0.013
Kr	83		ug/L		106	0.000
Lu	175		ug/L		346915	346915.380
Tl	205	51.190	ug/L	2.773	681989	1.960
U	238	54.197	ug/L	2.412	1701405	4.902

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	103.048					
Sc	45		97.3				
Ni	60	105.605					
Ge	74		96.0				
As	75	103.780					
Se	77						
Se	82	102.967					
Kr	83						
Lu	175		95.2				
Tl	205	102.381					
U	238	108.393					

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 08:09:39

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 08:13:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100412\QC Std 7.390

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.061	ug/L	37.005	22	0.000
Sc	45		ug/L		617360	617360.406
Ni	60	-0.003	ug/L	397.765	86	-0.000
Ge	74		ug/L		249572	249571.962
As	75	-0.071	ug/L	644.872	-206	-0.000
Se	77		ug/L		2715	-0.000
Se	82	-0.283	ug/L	20.787	-5	-0.000
Kr	83		ug/L		77	0.000
Lu	175		ug/L		351285	351285.221
Tl	205	0.365	ug/L	10.606	7174	0.014
U	238	0.005	ug/L	36.019	1204	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		96.9				
Ni	60						
Ge	74		95.0				
As	75						
Se	77						
Se	82						
Kr	83						
Lu	175		96.4				
Tl	205						
U	238						

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

Sample ID: QC Std 7

Report Date/Time: Tuesday, April 13, 2010 08:13:47

Page 1

QC Action Line: No QC out of limits detected

=====
Analysis Begun

Logged In Analyst: Administrator

Technique: AA FIMS-MHS

Spectrometer Model: FIMS-100, S/N B050-9550

Autosampler Model: S10

Sample Information File: C:\data-AA\Administrator\Sample Information\031210S1.SIF

Batch ID:

Results Data Set: 031210S1

Results Library: C:\data-AA\Administrator\Results\Results.mdb

=====
Method Loaded

Method Name: SOIL

Method Last Saved: 1/4/2010 13:53:20

Method Description: 7471A, ILM04 ANALYST JXL

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank

Date Collected: 3/12/2010 09:06:46

Analyst:

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]	0.0008	0.0029	0.0008	09:07:37	Yes
2		[0.00]	0.0008	0.0026	0.0008	09:08:07	Yes
Mean:		[0.00]	0.0008				
SD:		0.00	0.0000				
%RSD:		0.00	4.72				

Auto-zero performed.

Sequence No.: 2

Autosampler Location: 2

Sample ID: S0.2

Date Collected: 3/12/2010 09:08:26

Analyst:

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]	0.0023	0.0135	0.0031	09:09:16	Yes
2		[0.2]	0.0021	0.0115	0.0029	09:09:46	Yes
Mean:		[0.2]	0.0022				
SD:		0.0	0.0001				
%RSD:		0.0	4.67				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01111 Intercept: 0.00000

Sequence No.: 3

Autosampler Location: 3

Sample ID: S0.5

Date Collected: 3/12/2010 09:10:05

Analyst:

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]	0.0061	0.0307	0.0069	09:10:56	Yes
2		[0.5]	0.0061	0.0298	0.0069	09:11:26	Yes
Mean:		[0.5]	0.0061				
SD:		0.0	0.0000				
%RSD:		0.0	0.01				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.999210 Slope: 0.01223 Intercept: -0.00008

Sequence No.: 4

Autosampler Location: 4

Sample ID: S2.0

Date Collected: 3/12/2010 09:11:45

Analyst:

Data Type: Original

Replicate Data: S2.0

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2.0]	0.0262	0.1219	0.0270	09:12:37	Yes
2		[2.0]	0.0260	0.1210	0.0268	09:13:07	Yes
Mean:		[2.0]	0.0261				
SD:		0.0	0.0002				
%RSD:		0.0	0.61				

Standard number 3 applied. [2.0]
Correlation Coef.: 0.999827 Slope: 0.01317 Intercept: -0.00028

Sequence No.: 5

Autosampler Location: 5

Sample ID: S5.0

Date Collected: 3/12/2010 09:13:27

Analyst:

Data Type: Original

Replicate Data: S5.0

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.0658	0.3028	0.0666	09:14:19	Yes
2		[5.0]	0.0654	0.2997	0.0662	09:14:49	Yes
Mean:		[5.0]	0.0656				
SD:		0.0	0.0003				
%RSD:		0.0	0.44				

Standard number 4 applied. [5.0]
Correlation Coef.: 0.999975 Slope: 0.01317 Intercept: -0.00028

Sequence No.: 6

Autosampler Location: 6

Sample ID: S10.0

Date Collected: 3/12/2010 09:15:09

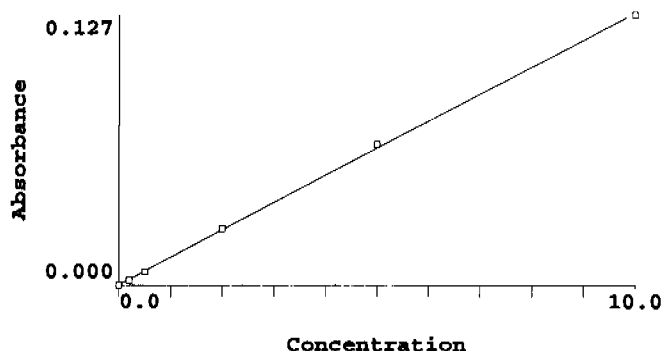
Analyst:

Data Type: Original

Replicate Data: S10.0

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.1271	0.5848	0.1279	09:15:59	Yes
2		[10.0]	0.1262	0.5786	0.1270	09:16:29	Yes
Mean:		[10.0]	0.1266				
SD:		0.0	0.0006				
%RSD:		0.0	0.49				

Standard number 5 applied. [10.0]
Correlation Coef.: 0.999819 Slope: 0.01273 Intercept: 0.00021

-----
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	-0.017	0.00	4.7
S0.2	0.0022	0.2	0.158	0.00	4.7
S0.5	0.0061	0.5	0.461	0.00	0.0
S2.0	0.0261	2.0	2.035	0.00	0.6

S5.0	0.0656	5.0	5.134	0.00	0.4
S10.0	0.1266	10.0	9.929	0.00	0.5

Correlation Coef.: 0.999819 Slope: 0.01273 Intercept: 0.00021

Sequence No.: 7

Autosampler Location: 9

Sample ID: ICV

Date Collected: 3/12/2010 09:16:48

Analyst:

Data Type: Original

Replicate Data: ICV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.156	5.156	0.0659	0.3041	0.0667	09:17:39	Yes
2	5.121	5.121	0.0654	0.3014	0.0662	09:18:09	Yes
Mean:	5.138	5.138	0.0656				
SD:	0.025	0.025	0.0003				
%RSD:	0.481	0.481	0.48				

QC value within limits for Hg 253.7 Recovery = 102.76%

All analyte(s) passed QC.

Sequence No.: 8

Autosampler Location: 10

Sample ID: ICB

Date Collected: 3/12/2010 09:18:29

Analyst:

Data Type: Original

Replicate Data: ICB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.042	-0.042	-0.0003	0.0008	0.0005	09:19:20	Yes
2	-0.033	-0.033	-0.0002	0.0013	0.0006	09:19:50	Yes
Mean:	-0.038	-0.038	-0.0003				
SD:	0.006	0.006	0.0001				
%RSD:	15.79	15.79	28.62				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 9

Autosampler Location: 11

Sample ID: CRDL

Date Collected: 3/12/2010 09:20:10

Analyst:

Data Type: Original

Replicate Data: CRDL

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.152	0.152	0.0021	0.0124	0.0029	09:21:02	Yes
2	0.157	0.157	0.0022	0.0133	0.0030	09:21:32	Yes
Mean:	0.154	0.154	0.0022				
SD:	0.003	0.003	0.0000				
%RSD:	2.094	2.094	1.89				

QC value within limits for Hg 253.7 Recovery = 77.13%

All analyte(s) passed QC.

Sequence No.: 10

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/12/2010 09:21:52

Analyst:

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.075	5.075	0.0648	0.2992	0.0656	09:22:42	Yes
2	5.095	5.095	0.0651	0.2994	0.0659	09:23:11	Yes
Mean:	5.085	5.085	0.0650				
SD:	0.015	0.015	0.0002				
%RSD:	0.285	0.285	0.28				

QC value within limits for Hg 253.7 Recovery = 101.70%

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 3/12/2010 09:23:31
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.040	-0.040	-0.0003	0.0011	0.0005	09:24:22	Yes
2	-0.038	-0.038	-0.0003	0.0014	0.0005	09:24:51	Yes
Mean:	-0.039	-0.039	-0.0003				
SD:	0.001	0.001	0.0000				
%RSD:	3.041	3.041	5.39				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 12
Sample ID: 1202068231|964066|1
Analyst: JXL

Autosampler Location: 12
Date Collected: 3/12/2010 09:25:11
Data Type: Original

Replicate Data: 1202068231|964066|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.056	-0.056	-0.0005	0.0008	0.0003	09:26:02	Yes
2	-0.051	-0.051	-0.0004	0.0011	0.0004	09:26:32	Yes
Mean:	-0.053	-0.053	-0.0005				
SD:	0.004	0.004	0.0000				
%RSD:	7.231	7.231	10.57				

Sequence No.: 13
Sample ID: 1202068232|964066|10
Analyst: JXL

Autosampler Location: 13
Date Collected: 3/12/2010 09:26:52
Data Type: Original

Replicate Data: 1202068232|964066|10

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.852	3.852	0.0493	0.2302	0.0501	09:27:44	Yes
2	3.864	3.864	0.0494	0.2300	0.0502	09:28:14	Yes
Mean:	3.858	3.858	0.0493				
SD:	0.009	0.009	0.0001				
%RSD:	0.225	0.225	0.22				

Sequence No.: 14
Sample ID: 248393004|964066|1
Analyst: JXL

Autosampler Location: 14
Date Collected: 3/12/2010 09:28:35
Data Type: Original

Replicate Data: 248393004|964066|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.175	0.175	0.0024	0.0144	0.0032	09:29:25	Yes
2	0.175	0.175	0.0024	0.0142	0.0032	09:29:55	Yes
Mean:	0.175	0.175	0.0024				
SD:	0.001	0.001	0.0000				
%RSD:	0.290	0.290	0.26				

Sequence No.: 15
Sample ID: 1202068233|964066|1
Analyst: JXL

Autosampler Location: 15
Date Collected: 3/12/2010 09:30:14
Data Type: Original

Replicate Data: 1202068233|964066|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
------	------------	----------	---------	------	------	------	------

Replicate Data: 1202056205|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.057	-0.057	-0.0005	0.0007	0.0003	09:39:20	Yes
2	-0.057	-0.057	-0.0005	0.0005	0.0003	09:39:50	Yes
Mean:	-0.057	-0.057	-0.0005				
SD:	0.000	0.000	0.0000				
%RSD:	0.407	0.407	0.58				

=====

Sequence No.: 21
Sample ID: 1202056206|958767|10
Analyst: JXLAutosampler Location: 21
Date Collected: 3/12/2010 09:40:09
Data Type: Original-----
Replicate Data: 1202056206|958767|10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.544	3.544	0.0453	0.2117	0.0461	09:41:00	Yes
2	3.521	3.521	0.0450	0.2095	0.0458	09:41:30	Yes
Mean:	3.532	3.532	0.0452				
SD:	0.016	0.016	0.0002				
%RSD:	0.454	0.454	0.45				

=====

Sequence No.: 22
Sample ID: CCV
Analyst:Autosampler Location: 7
Date Collected: 3/12/2010 09:41:50
Data Type: Original-----
Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.142	5.142	0.0657	0.3043	0.0665	09:42:40	Yes
2	5.114	5.114	0.0653	0.3018	0.0661	09:43:10	Yes
Mean:	5.128	5.128	0.0655				
SD:	0.020	0.020	0.0003				
%RSD:	0.391	0.391	0.39				

QC value within limits for Hg 253.7 Recovery = 102.56%
All analyte(s) passed QC.

=====

Sequence No.: 23
Sample ID: CCB
Analyst:Autosampler Location: 8
Date Collected: 3/12/2010 09:43:29
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	-0.0002	0.0021	0.0006	09:44:20	Yes
2	-0.031	-0.031	-0.0002	0.0026	0.0006	09:44:49	Yes
Mean:	-0.031	-0.031	-0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	2.472	2.472	5.34				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 24
Sample ID: 248183001|958767|1
Analyst: JXLAutosampler Location: 22
Date Collected: 3/12/2010 09:45:09
Data Type: Original-----
Replicate Data: 248183001|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.067	0.067	0.0011	0.0079	0.0019	09:46:00	Yes
2	0.071	0.071	0.0011	0.0087	0.0019	09:46:30	Yes

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.131	0.131	0.0019	0.0119	0.0027	09:54:26	Yes
2	0.125	0.125	0.0018	0.0115	0.0026	09:54:56	Yes
Mean:	0.128	0.128	0.0018				
SD:	0.004	0.004	0.0000				
%RSD:	3.053	3.053	2.70				

Sequence No.: 30

Autosampler Location: 28

Sample ID: 248183003|958767|1

Date Collected: 3/12/2010 09:55:15

Analyst: JXL

Data Type: Original

Replicate Data: 248183003|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.075	0.075	0.0012	0.0087	0.0020	09:56:05	Yes
2	0.075	0.075	0.0012	0.0086	0.0020	09:56:35	Yes
Mean:	0.075	0.075	0.0012				
SD:	0.000	0.000	0.0000				
%RSD:	0.576	0.576	0.47				

Sequence No.: 31

Autosampler Location: 29

Sample ID: 248183004|958767|1

Date Collected: 3/12/2010 09:56:54

Analyst: JXL

Data Type: Original

Replicate Data: 248183004|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.058	0.058	0.0010	0.0078	0.0018	09:57:45	Yes
2	0.057	0.057	0.0009	0.0081	0.0017	09:58:15	Yes
Mean:	0.058	0.058	0.0010				
SD:	0.001	0.001	0.0000				
%RSD:	1.283	1.283	0.99				

Sequence No.: 32

Autosampler Location: 30

Sample ID: 248183005|958767|1

Date Collected: 3/12/2010 09:58:34

Analyst: JXL

Data Type: Original

Replicate Data: 248183005|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.090	0.090	0.0014	0.0104	0.0022	09:59:25	Yes
2	0.093	0.093	0.0014	0.0112	0.0022	09:59:55	Yes
Mean:	0.092	0.092	0.0014				
SD:	0.003	0.003	0.0000				
%RSD:	2.837	2.837	2.40				

Sequence No.: 33

Autosampler Location: 31

Sample ID: 248183006|958767|1

Date Collected: 3/12/2010 10:00:14

Analyst: JXL

Data Type: Original

Replicate Data: 248183006|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.010	0.010	0.0003	0.0055	0.0011	10:01:04	Yes
2	0.011	0.011	0.0004	0.0054	0.0012	10:01:34	Yes
Mean:	0.011	0.011	0.0004				
SD:	0.000	0.000	0.0000				
%RSD:	3.345	3.345	1.30				

Sequence No.: 34

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/12/2010 10:01:53

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.241	5.241	0.0669	0.3111	0.0677	10:02:44	Yes
2	5.231	5.231	0.0668	0.3109	0.0676	10:03:14	Yes
Mean:	5.236	5.236	0.0669				
SD:	0.007	0.007	0.0001				
%RSD:	0.138	0.138	0.14				

QC value within limits for Hg 253.7 Recovery = 104.71%
All analyte(s) passed QC.

Sequence No.: 35

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/12/2010 10:03:33

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.016	-0.016	0.0000	0.0044	0.0008	10:04:24	Yes
2	-0.022	-0.022	-0.0001	0.0035	0.0007	10:04:54	Yes
Mean:	-0.019	-0.019	-0.0000				
SD:	0.004	0.004	0.0001				
%RSD:	21.80	21.80	190.85				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 36

Autosampler Location: 32

Sample ID: 248183007|958767|1

Date Collected: 3/12/2010 10:05:13

Analyst: JXL

Data Type: Original

Replicate Data: 248183007|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.017	-0.017	-0.0000	0.0036	0.0008	10:06:04	Yes
2	-0.015	-0.015	0.0000	0.0034	0.0008	10:06:34	Yes
Mean:	-0.016	-0.016	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	8.297	8.297	174.81				

Sequence No.: 37

Autosampler Location: 33

Sample ID: 248183008|958767|1

Date Collected: 3/12/2010 10:06:53

Analyst: JXL

Data Type: Original

Replicate Data: 248183008|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.095	0.095	0.0014	0.0100	0.0022	10:07:44	Yes
2	0.094	0.094	0.0014	0.0102	0.0022	10:08:14	Yes
Mean:	0.095	0.095	0.0014				
SD:	0.001	0.001	0.0000				
%RSD:	1.230	1.230	1.04				

Sequence No.: 38

Autosampler Location: 34

Sample ID: 248183009|958767|1

Date Collected: 3/12/2010 10:08:34

Analyst: JXL

Data Type: Original

Replicate Data: 248183009|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.106	0.106	0.0016	0.0110	0.0024	10:09:25	Yes

Replicate Data: 248183014|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.124	0.124	0.0018	0.0120	0.0026	10:17:50	Yes
2	0.125	0.125	0.0018	0.0122	0.0026	10:18:20	Yes
Mean:	0.124	0.124	0.0018				
SD:	0.000	0.000	0.0000				
%RSD:	0.270	0.270	0.24				

Sequence No.: 44

Autosampler Location: 40

Sample ID: 248183015|958767|1

Date Collected: 3/12/2010 10:18:39

Analyst: JXL

Data Type: Original

Replicate Data: 248183015|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.093	0.093	0.0014	0.0104	0.0022	10:19:31	Yes
2	0.090	0.090	0.0014	0.0100	0.0022	10:20:01	Yes
Mean:	0.091	0.091	0.0014				
SD:	0.002	0.002	0.0000				
%RSD:	2.349	2.349	1.98				

Sequence No.: 45

Autosampler Location: 41

Sample ID: 248183016|958767|1

Date Collected: 3/12/2010 10:20:20

Analyst: JXL

Data Type: Original

Replicate Data: 248183016|958767|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.027	0.027	0.0006	0.0064	0.0014	10:21:11	Yes
2	0.027	0.027	0.0006	0.0065	0.0014	10:21:41	Yes
Mean:	0.027	0.027	0.0006				
SD:	0.000	0.000	0.0000				
%RSD:	0.581	0.581	0.36				

Sequence No.: 46

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/12/2010 10:22:01

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.272	5.272	0.0673	0.3120	0.0681	10:22:51	Yes
2	5.257	5.257	0.0671	0.3099	0.0679	10:23:21	Yes
Mean:	5.264	5.264	0.0672				
SD:	0.011	0.011	0.0001				
%RSD:	0.200	0.200	0.20				

QC value within limits for Hg 253.7 Recovery = 105.29%

All analyte(s) passed QC.

Sequence No.: 47

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/12/2010 10:23:40

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.019	-0.019	-0.0000	0.0035	0.0008	10:24:31	Yes
2	-0.017	-0.017	-0.0000	0.0039	0.0008	10:25:01	Yes
Mean:	-0.018	-0.018	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	7.513	7.513	128.72				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 48

Sample ID: 248183017|958767|1

Analyst: JXL

Autosampler Location: 42

Date Collected: 3/12/2010 10:25:20

Data Type: Original

Replicate Data: 248183017|958767|1

Repl	SampleConc	StdConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.041	0.041	0.0007	0.0072	0.0015	10:26:11	Yes
2	0.038	0.038	0.0007	0.0068	0.0015	10:26:41	Yes
Mean:	0.039	0.039	0.0007				
SD:	0.002	0.002	0.0000				
%RSD:	5.832	5.832	4.08				

Sequence No.: 49

Sample ID: 248183018|958767|1

Analyst: JXL

Autosampler Location: 43

Date Collected: 3/12/2010 10:27:01

Data Type: Original

Replicate Data: 248183018|958767|1

Repl	SampleConc	StdConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.258	0.258	0.0035	0.0201	0.0043	10:27:52	Yes
2	0.254	0.254	0.0035	0.0196	0.0043	10:28:22	Yes
Mean:	0.256	0.256	0.0035				
SD:	0.002	0.002	0.0000				
%RSD:	0.841	0.841	0.79				

Sequence No.: 50

Sample ID: 248183019|958767|1

Analyst: JXL

Autosampler Location: 44

Date Collected: 3/12/2010 10:28:41

Data Type: Original

Replicate Data: 248183019|958767|1

Repl	SampleConc	StdConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.105	0.105	0.0016	0.0116	0.0024	10:29:32	Yes
2	0.106	0.106	0.0016	0.0115	0.0024	10:30:02	Yes
Mean:	0.106	0.106	0.0016				
SD:	0.001	0.001	0.0000				
%RSD:	0.511	0.511	0.44				

Sequence No.: 51

Sample ID: 248183020|958767|1

Analyst: JXL

Autosampler Location: 45

Date Collected: 3/12/2010 10:30:21

Data Type: Original

Replicate Data: 248183020|958767|1

Repl	SampleConc	StdConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.092	0.092	0.0014	0.0102	0.0022	10:31:12	Yes
2	0.095	0.095	0.0014	0.0103	0.0022	10:31:42	Yes
Mean:	0.094	0.094	0.0014				
SD:	0.002	0.002	0.0000				
%RSD:	2.150	2.150	1.82				

Sequence No.: 52

Sample ID: 1202056211|958770|1

Analyst: JXL

Autosampler Location: 46

Date Collected: 3/12/2010 10:32:01

Data Type: Original

Replicate Data: 1202056211|958770|1

Repl	SampleConc	StdConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored

1	-0.055	-0.055	-0.0005	0.0013	0.0003	10:32:52	Yes
2	-0.054	-0.054	-0.0005	0.0014	0.0003	10:33:22	Yes
Mean:	-0.054	-0.054	-0.0005				
SD:	0.000	0.000	0.0000				
%RSD:	0.580	0.580	0.84				

Sequence No.: 53

Sample ID: 1202056212|958770|10

Analyst: JXL

Autosampler Location: 47

Date Collected: 3/12/2010 10:33:42

Data Type: Original

Replicate Data: 1202056212|958770|10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.932	3.932	0.0503	0.2338	0.0511	10:34:34	Yes
2	3.927	3.927	0.0502	0.2318	0.0510	10:35:04	Yes
Mean:	3.930	3.930	0.0502				
SD:	0.004	0.004	0.0000				
%RSD:	0.094	0.094	0.09				

Sequence No.: 54

Sample ID: 248189001|958770|1

Analyst: JXL

Autosampler Location: 48

Date Collected: 3/12/2010 10:35:24

Data Type: Original

Replicate Data: 248189001|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.111	0.111	0.0016	0.0110	0.0024	10:36:16	Yes
2	0.111	0.111	0.0016	0.0110	0.0024	10:36:46	Yes
Mean:	0.111	0.111	0.0016				
SD:	0.000	0.000	0.0000				
%RSD:	0.127	0.127	0.11				

Sequence No.: 55

Sample ID: 1202056213|958770|1

Analyst: JXL

Autosampler Location: 49

Date Collected: 3/12/2010 10:37:06

Data Type: Original

Replicate Data: 1202056213|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.150	0.150	0.0021	0.0133	0.0029	10:37:58	Yes
2	0.151	0.151	0.0021	0.0135	0.0029	10:38:28	Yes
Mean:	0.151	0.151	0.0021				
SD:	0.001	0.001	0.0000				
%RSD:	0.471	0.471	0.42				

Sequence No.: 56

Sample ID: 1202056214|958770|1

Analyst: JXL

Autosampler Location: 50

Date Collected: 3/12/2010 10:38:48

Data Type: Original

Replicate Data: 1202056214|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.197	2.197	0.0282	0.1341	0.0290	10:39:39	Yes
2	2.206	2.206	0.0283	0.1340	0.0291	10:40:09	Yes
Mean:	2.201	2.201	0.0282				
SD:	0.006	0.006	0.0001				
%RSD:	0.276	0.276	0.27				

Sequence No.: 57

Sample ID: 1202056216|958770|1

Analyst: JXL

Autosampler Location: 51

Date Collected: 3/12/2010 10:40:28

Data Type: Original

Replicate Data: 1202056216|958770|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.703	1.703	0.0219	0.1094	0.0227	10:41:19	Yes
2	1.680	1.680	0.0216	0.1076	0.0224	10:41:49	Yes
Mean:	1.692	1.692	0.0218				
SD:	0.016	0.016	0.0002				
%RSD:	0.961	0.961	0.95				

Sequence No.: 58

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 3/12/2010 10:42:09

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.850	4.850	0.0620	0.2887	0.0628	10:42:59	Yes
2	4.873	4.873	0.0623	0.2887	0.0631	10:43:29	Yes
Mean:	4.861	4.861	0.0621				
SD:	0.016	0.016	0.0002				
%RSD:	0.328	0.328	0.33				

QC value within limits for Hg 253.7 Recovery = 97.23%
All analyte(s) passed QC.

Sequence No.: 59

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/12/2010 10:43:48

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.031	-0.031	-0.0002	0.0030	0.0006	10:44:39	Yes
2	-0.036	-0.036	-0.0002	0.0026	0.0006	10:45:09	Yes
Mean:	-0.034	-0.034	-0.0002				
SD:	0.003	0.003	0.0000				
%RSD:	9.940	9.940	19.99				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 60

Sample ID: 1202056215|958770|5

Analyst: JXL

Autosampler Location: 52

Date Collected: 3/12/2010 10:45:28

Data Type: Original

Replicate Data: 1202056215|958770|5

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.002	0.002	0.0002	0.0050	0.0010	10:46:19	Yes
2	0.000	0.000	0.0002	0.0047	0.0010	10:46:49	Yes
Mean:	0.001	0.001	0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	87.86	87.86	4.91				

Sequence No.: 61

Sample ID: 248189002|958770|1

Analyst: JXL

Autosampler Location: 53

Date Collected: 3/12/2010 10:47:08

Data Type: Original

Replicate Data: 248189002|958770|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.108	0.108	0.0016	0.0115	0.0024	10:48:00	Yes
2	0.105	0.105	0.0016	0.0111	0.0023	10:48:30	Yes
Mean:	0.106	0.106	0.0016				

SD: 0.002 0.002 0.0000
%RSD: 1.821 1.821 1.57

Sequence No.: 62

Sample ID: 248198001|958770|1

Analyst: JXL

Autosampler Location: 54

Date Collected: 3/12/2010 10:48:49

Data Type: Original

Replicate Data: 248198001|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.204	1.204	0.0155	0.0795	0.0163	10:49:41	Yes
2	1.215	1.215	0.0157	0.0793	0.0165	10:50:11	Yes
Mean:	1.209	1.209	0.0156				
SD:	0.008	0.008	0.0001				
%RSD:	0.638	0.638	0.63				

Sequence No.: 63

Sample ID: 248198002|958770|1

Analyst: JXL

Autosampler Location: 55

Date Collected: 3/12/2010 10:50:30

Data Type: Original

Replicate Data: 248198002|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.767	2.767	0.0354	0.1679	0.0362	10:51:22	Yes
2	2.754	2.754	0.0353	0.1676	0.0361	10:51:52	Yes
Mean:	2.760	2.760	0.0354				
SD:	0.009	0.009	0.0001				
%RSD:	0.327	0.327	0.32				

Sequence No.: 64

Sample ID: 248198003|958770|1

Analyst: JXL

Autosampler Location: 56

Date Collected: 3/12/2010 10:52:11

Data Type: Original

Replicate Data: 248198003|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.527	0.527	0.0069	0.0357	0.0077	10:53:03	Yes
2	0.526	0.526	0.0069	0.0355	0.0077	10:53:33	Yes
Mean:	0.527	0.527	0.0069				
SD:	0.001	0.001	0.0000				
%RSD:	0.137	0.137	0.13				

Sequence No.: 65

Sample ID: 248198004|958770|1

Analyst: JXL

Autosampler Location: 57

Date Collected: 3/12/2010 10:53:52

Data Type: Original

Replicate Data: 248198004|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.993	1.993	0.0256	0.1218	0.0264	10:54:43	Yes
2	1.986	1.986	0.0255	0.1205	0.0263	10:55:13	Yes
Mean:	1.990	1.990	0.0255				
SD:	0.005	0.005	0.0001				
%RSD:	0.239	0.239	0.24				

Sequence No.: 66

Sample ID: 248198005|958770|1

Analyst: JXL

Autosampler Location: 58

Date Collected: 3/12/2010 10:55:33

Data Type: Original

Replicate Data: 248198005|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
------	------------	---------	---------	------	------	------	------

#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.697	1.697	0.0218	0.1047	0.0226	10:56:24	Yes
2	1.690	1.690	0.0217	0.1037	0.0225	10:56:54	Yes
Mean:	1.694	1.694	0.0218				
SD:	0.005	0.005	0.0001				
%RSD:	0.325	0.325	0.32				

Sequence No.: 67

Autosampler Location: 59

Sample ID: 248198006|958770|1

Date Collected: 3/12/2010 10:57:14

Analyst: JXL

Data Type: Original

Replicate Data: 248198006|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.303	0.303	0.0041	0.0222	0.0049	10:58:05	Yes
2	0.304	0.304	0.0041	0.0222	0.0049	10:58:35	Yes
Mean:	0.303	0.303	0.0041				
SD:	0.000	0.000	0.0000				
%RSD:	0.118	0.118	0.11				

Sequence No.: 68

Autosampler Location: 60

Sample ID: 248198007|958770|1

Date Collected: 3/12/2010 10:58:55

Analyst: JXL

Data Type: Original

Replicate Data: 248198007|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	84.43	84.43	1.0752	6.2903	1.0760	10:59:47	Yes
Sample concentration is greater than that of the highest standard.							
2	83.54	83.54	1.0639	6.2043	1.0647	11:00:16	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	83.98	83.98	1.0695				
SD:	0.627	0.627	0.0080				
%RSD:	0.747	0.747	0.75				

Sample concentration is greater than that of the highest standard.

Sequence No.: 69

Autosampler Location: 61

Sample ID: 248198008|958770|1

Date Collected: 3/12/2010 11:00:36

Analyst: JXL

Data Type: Original

Replicate Data: 248198008|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	89.14	89.14	1.1352	6.9808	1.1360	11:01:28	Yes
Sample concentration is greater than that of the highest standard.							
2	88.17	88.17	1.1228	6.8672	1.1236	11:01:57	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	88.65	88.65	1.1290				
SD:	0.688	0.688	0.0088				
%RSD:	0.776	0.776	0.78				

Sample concentration is greater than that of the highest standard.

Sequence No.: 70

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/12/2010 11:02:18

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.058	5.058	0.0646	0.2936	0.0654	11:03:09	Yes
2	5.054	5.054	0.0646	0.2953	0.0654	11:03:39	Yes
Mean:	5.056	5.056	0.0646				
SD:	0.003	0.003	0.0000				

%RSD: 0.062 0.062 0.06
QC value within limits for Hg 253.7 Recovery = 101.12%
All analyte(s) passed QC.

Sequence No.: 71 Autosampler Location: 8
Sample ID: CCB Date Collected: 3/12/2010 11:03:58
Analyst: Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.044	0.044	0.0008	0.0059	0.0016	11:04:49	Yes
2	0.039	0.039	0.0007	0.0060	0.0015	11:05:19	Yes
Mean:	0.041	0.041	0.0007				
SD:	0.003	0.003	0.0000				
%RSD:	8.340	8.340	5.92				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 72 Autosampler Location: 62
Sample ID: 248198009|958770|1 Date Collected: 3/12/2010 11:05:38
Analyst: JXL Data Type: Original

Replicate Data: 248198009|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.949	0.949	0.0123	0.0605	0.0131	11:06:29	Yes
2	0.941	0.941	0.0122	0.0599	0.0130	11:06:59	Yes
Mean:	0.945	0.945	0.0122				
SD:	0.006	0.006	0.0001				
%RSD:	0.596	0.596	0.59				

Sequence No.: 73 Autosampler Location: 63
Sample ID: 248198010|958770|1 Date Collected: 3/12/2010 11:07:19
Analyst: JXL Data Type: Original

Replicate Data: 248198010|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.479	0.479	0.0063	0.0362	0.0071	11:08:10	Yes
2	0.418	0.418	0.0055	0.0312	0.0063	11:08:40	Yes
Mean:	0.448	0.448	0.0059				
SD:	0.043	0.043	0.0005				
%RSD:	9.615	9.615	9.27				

Sequence No.: 74 Autosampler Location: 64
Sample ID: 248198011|958770|1 Date Collected: 3/12/2010 11:09:00
Analyst: JXL Data Type: Original

Replicate Data: 248198011|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.328	0.328	0.0044	0.0265	0.0052	11:09:51	Yes
2	0.314	0.314	0.0042	0.0251	0.0050	11:10:21	Yes
Mean:	0.321	0.321	0.0043				
SD:	0.010	0.010	0.0001				
%RSD:	3.028	3.028	2.88				

Sequence No.: 75 Autosampler Location: 65
Sample ID: 248198012|958770|1 Date Collected: 3/12/2010 11:10:41
Analyst: JXL Data Type: Original

Replicate Data: 248198012|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.553	0.553	0.0073	0.0403	0.0081	11:11:32	Yes
2	0.558	0.558	0.0073	0.0393	0.0081	11:12:02	Yes
Mean:	0.556	0.556	0.0073				
SD:	0.003	0.003	0.0000				
%RSD:	0.594	0.594	0.58				

Sequence No.: 76

Sample ID: 248202001|958770|1

Analyst: JXL

Autosampler Location: 66

Date Collected: 3/12/2010 11:12:21

Data Type: Original

Replicate Data: 248202001|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.304	2.304	0.0296	0.1417	0.0304	11:13:12	Yes
2	2.223	2.223	0.0285	0.1358	0.0293	11:13:42	Yes
Mean:	2.264	2.264	0.0290				
SD:	0.057	0.057	0.0007				
%RSD:	2.535	2.535	2.52				

Sequence No.: 77

Sample ID: 248202002|958770|1

Analyst: JXL

Autosampler Location: 67

Date Collected: 3/12/2010 11:14:02

Data Type: Original

Replicate Data: 248202002|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.873	3.873	0.0495	0.2351	0.0503	11:14:53	Yes
2	3.898	3.898	0.0499	0.2346	0.0507	11:15:23	Yes
Mean:	3.886	3.886	0.0497				
SD:	0.018	0.018	0.0002				
%RSD:	0.466	0.466	0.46				

Sequence No.: 78

Sample ID: 248203002|958770|1

Analyst: JXL

Autosampler Location: 68

Date Collected: 3/12/2010 11:15:43

Data Type: Original

Replicate Data: 248203002|958770|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.028	-0.028	-0.0001	0.0031	0.0007	11:16:34	Yes
2	-0.029	-0.029	-0.0002	0.0030	0.0006	11:17:04	Yes
Mean:	-0.029	-0.029	-0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	1.164	1.164	2.84				

Sequence No.: 79

Sample ID: 1202056115|958725|1

Analyst: JXL

Autosampler Location: 69

Date Collected: 3/12/2010 11:17:24

Data Type: Original

Replicate Data: 1202056115|958725|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.048	-0.048	-0.0004	0.0018	0.0004	11:18:15	Yes
2	-0.045	-0.045	-0.0004	0.0020	0.0004	11:18:45	Yes
Mean:	-0.047	-0.047	-0.0004				
SD:	0.002	0.002	0.0000				
%RSD:	4.499	4.499	7.06				

Sequence No.: 80
Sample ID: 1202056116|958725|10
Analyst: JXL

Autosampler Location: 70
Date Collected: 3/12/2010 11:19:05
Data Type: Original

Replicate Data: 1202056116|958725|10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.789	1.789	0.0230	0.1092	0.0238	11:19:57	Yes
2	1.784	1.784	0.0229	0.1080	0.0237	11:20:27	Yes
Mean:	1.787	1.787	0.0230				
SD:	0.003	0.003	0.0000				
%RSD:	0.192	0.192	0.19				

Sequence No.: 81
Sample ID: 247899001|958725|1
Analyst: JXL

Autosampler Location: 71
Date Collected: 3/12/2010 11:20:46
Data Type: Original

Replicate Data: 247899001|958725|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.270	0.270	0.0036	0.0198	0.0044	11:21:38	Yes
2	0.267	0.267	0.0036	0.0201	0.0044	11:22:08	Yes
Mean:	0.268	0.268	0.0036				
SD:	0.002	0.002	0.0000				
%RSD:	0.715	0.715	0.67				

Sequence No.: 82
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 3/12/2010 11:22:28
Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.034	5.034	0.0643	0.2955	0.0651	11:23:18	Yes
2	4.999	4.999	0.0639	0.2926	0.0647	11:23:48	Yes
Mean:	5.016	5.016	0.0641				
SD:	0.024	0.024	0.0003				
%RSD:	0.488	0.488	0.49				

QC value within limits for Hg 253.7 Recovery = 100.33%
All analyte(s) passed QC.

Sequence No.: 83
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 3/12/2010 11:24:07
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	0.0000	0.0033	0.0008	11:24:57	Yes
2	-0.014	-0.014	0.0000	0.0037	0.0008	11:25:27	Yes
Mean:	-0.014	-0.014	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	5.343	5.343	26.71				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 84
Sample ID: 1202056117|958725|1
Analyst: JXL

Autosampler Location: 72
Date Collected: 3/12/2010 11:25:47
Data Type: Original

Replicate Data: 1202056117|958725|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
------	------------	---------	---------	------	------	------	------

Sequence No.: 94
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 3/12/2010 11:42:42
Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.022	5.022	0.0642	0.2936	0.0650	11:43:32	Yes
2	5.003	5.003	0.0639	0.2924	0.0647	11:44:02	Yes
Mean:	5.013	5.013	0.0640				
SD:	0.013	0.013	0.0002				
%RSD:	0.257	0.257	0.26				

QC value within limits for Hg 253.7 Recovery = 100.25%
All analyte(s) passed QC.

Sequence No.: 95
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 3/12/2010 11:44:21
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	-0.0001	0.0031	0.0007	11:45:12	Yes
2	-0.025	-0.025	-0.0001	0.0030	0.0007	11:45:42	Yes
Mean:	-0.025	-0.025	-0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	4.905	4.905	15.57				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 96
Sample ID: 247899008|958725|1
Analyst: JXL

Autosampler Location: 82
Date Collected: 3/12/2010 11:46:01
Data Type: Original

Replicate Data: 247899008|958725|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.207	0.207	0.0029	0.0167	0.0037	11:46:52	Yes
2	0.208	0.208	0.0029	0.0170	0.0037	11:47:22	Yes
Mean:	0.208	0.208	0.0029				
SD:	0.001	0.001	0.0000				
%RSD:	0.456	0.456	0.42				

Sequence No.: 97
Sample ID: 247899009|958725|1
Analyst: JXL

Autosampler Location: 83
Date Collected: 3/12/2010 11:47:42
Data Type: Original

Replicate Data: 247899009|958725|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.134	0.134	0.0019	0.0125	0.0027	11:48:33	Yes
2	0.133	0.133	0.0019	0.0124	0.0027	11:49:03	Yes
Mean:	0.134	0.134	0.0019				
SD:	0.001	0.001	0.0000				
%RSD:	0.753	0.753	0.67				

Sequence No.: 98
Sample ID: 247899010|958725|1
Analyst: JXL

Autosampler Location: 84
Date Collected: 3/12/2010 11:49:23
Data Type: Original

Replicate Data: 247899010|958725|1

Analyst: JXL

Data Type: Original

Replicate Data: 247899015|958725|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.378	0.378	0.0050	0.0269	0.0058	11:58:42	Yes
2	0.378	0.378	0.0050	0.0266	0.0058	11:59:12	Yes
Mean:	0.378	0.378	0.0050				
SD:	0.000	0.000	0.0000				
%RSD:	0.115	0.115	0.11				

=====

Sequence No.: 104
Sample ID: 247899016|958725|1
Analyst: JXLAutosampler Location: 90
Date Collected: 3/12/2010 11:59:32
Data Type: Original-----
Replicate Data: 247899016|958725|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.541	0.541	0.0071	0.0357	0.0079	12:00:24	Yes
2	0.545	0.545	0.0072	0.0358	0.0080	12:00:54	Yes
Mean:	0.543	0.543	0.0071				
SD:	0.003	0.003	0.0000				
%RSD:	0.552	0.552	0.54				

=====

Sequence No.: 105
Sample ID: 247899017|958725|1
Analyst: JXLAutosampler Location: 91
Date Collected: 3/12/2010 12:01:14
Data Type: Original-----
Replicate Data: 247899017|958725|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.151	0.151	0.0021	0.0130	0.0029	12:02:06	Yes
2	0.155	0.155	0.0022	0.0138	0.0030	12:02:35	Yes
Mean:	0.153	0.153	0.0022				
SD:	0.003	0.003	0.0000				
%RSD:	1.781	1.781	1.60				

=====

Sequence No.: 106
Sample ID: CCV
Analyst:Autosampler Location: 7
Date Collected: 3/12/2010 12:02:56
Data Type: Original-----
Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.016	5.016	0.0641	0.2943	0.0649	12:03:46	Yes
2	5.022	5.022	0.0642	0.2929	0.0650	12:04:15	Yes
Mean:	5.019	5.019	0.0641				
SD:	0.004	0.004	0.0001				
%RSD:	0.082	0.082	0.08				

QC value within limits for Hg 253.7 Recovery = 100.38%
All analyte(s) passed QC.

=====

Sequence No.: 107
Sample ID: CCB
Analyst:Autosampler Location: 8
Date Collected: 3/12/2010 12:04:34
Data Type: Original-----
Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.028	-0.028	-0.0001	0.0028	0.0007	12:05:26	Yes
2	-0.024	-0.024	-0.0001	0.0032	0.0007	12:05:55	Yes
Mean:	-0.026	-0.026	-0.0001				

SD: 0.003 0.003 0.0000

%RSD: 10.46 10.46 29.14

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 108

Autosampler Location: 92

Sample ID: 247899018|958725|1

Date Collected: 3/12/2010 12:06:15

Analyst: JXL

Data Type: Original

Replicate Data: 247899018|958725|1

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.082	0.082	0.0013	0.0091	0.0021	12:07:07	Yes
2	0.085	0.085	0.0013	0.0095	0.0021	12:07:37	Yes
Mean:	0.084	0.084	0.0013				
SD:	0.002	0.002	0.0000				
%RSD:	2.616	2.616	2.18				

Sequence No.: 109

Autosampler Location: 93

Sample ID: 247899019|958725|1

Date Collected: 3/12/2010 12:07:57

Analyst: JXL

Data Type: Original

Replicate Data: 247899019|958725|1

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.918	0.918	0.0119	0.0582	0.0127	12:08:49	Yes
2	0.913	0.913	0.0118	0.0574	0.0126	12:09:18	Yes
Mean:	0.915	0.915	0.0119				
SD:	0.003	0.003	0.0000				
%RSD:	0.375	0.375	0.37				

Sequence No.: 110

Autosampler Location: 94

Sample ID: 247899020|958725|1

Date Collected: 3/12/2010 12:09:39

Analyst: JXL

Data Type: Original

Replicate Data: 247899020|958725|1

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.136	0.136	0.0019	0.0127	0.0027	12:10:30	Yes
2	0.139	0.139	0.0020	0.0129	0.0028	12:11:00	Yes
Mean:	0.137	0.137	0.0020				
SD:	0.002	0.002	0.0000				
%RSD:	1.345	1.345	1.20				

Sequence No.: 111

Autosampler Location: 95

Sample ID: 1202056121|958728|1

Date Collected: 3/12/2010 12:11:20

Analyst: JXL

Data Type: Original

Replicate Data: 1202056121|958728|1

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.040	-0.040	-0.0003	0.0022	0.0005	12:12:12	Yes
2	-0.040	-0.040	-0.0003	0.0023	0.0005	12:12:42	Yes
Mean:	-0.040	-0.040	-0.0003				
SD:	0.000	0.000	0.0000				
%RSD:	0.211	0.211	0.36				

Sequence No.: 112

Autosampler Location: 96

Sample ID: 1202056122|958728|10

Date Collected: 3/12/2010 12:13:02

Analyst: JXL

Data Type: Original

Sample ID: 1202056125|958728|5
Analyst: JXL

Date Collected: 3/12/2010 12:21:33
Data Type: Original

Replicate Data: 1202056125|958728|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.006	-0.006	0.0001	0.0040	0.0009	12:22:24	Yes
2	-0.007	-0.007	0.0001	0.0042	0.0009	12:22:54	Yes
Mean:	-0.006	-0.006	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	10.22	10.22	5.78				

=====

Sequence No.: 118
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 3/12/2010 12:23:15
Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.046	5.046	0.0645	0.2974	0.0653	12:24:05	Yes
2	5.061	5.061	0.0647	0.2954	0.0655	12:24:35	Yes
Mean:	5.054	5.054	0.0646				
SD:	0.011	0.011	0.0001				
%RSD:	0.216	0.216	0.21				

QC value within limits for Hg 253.7 Recovery = 101.08%
All analyte(s) passed QC.

=====

Sequence No.: 119
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 3/12/2010 12:24:54
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.027	-0.027	-0.0001	0.0029	0.0007	12:25:44	Yes
2	-0.027	-0.027	-0.0001	0.0027	0.0007	12:26:14	Yes
Mean:	-0.027	-0.027	-0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	0.122	0.122	0.32				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 120
Sample ID: 247907002|958728|1
Analyst: JXL

Autosampler Location: 102
Date Collected: 3/12/2010 12:26:33
Data Type: Original

Replicate Data: 247907002|958728|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.112	0.112	0.0016	0.0119	0.0024	12:27:25	Yes
2	0.110	0.110	0.0016	0.0114	0.0024	12:27:55	Yes
Mean:	0.111	0.111	0.0016				
SD:	0.001	0.001	0.0000				
%RSD:	1.203	1.203	1.04				

=====

Sequence No.: 121
Sample ID: 247907003|958728|1
Analyst: JXL

Autosampler Location: 103
Date Collected: 3/12/2010 12:28:15
Data Type: Original

Replicate Data: 247907003|958728|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored

Replicate Data: 247907008|958728|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.264	0.264	0.0036	0.0204	0.0044	12:37:38	Yes
2	0.260	0.260	0.0035	0.0195	0.0043	12:38:08	Yes
Mean:	0.262	0.262	0.0036				
SD:	0.003	0.003	0.0000				
%RSD:	1.040	1.040	0.98				

Sequence No.: 127

Sample ID: 247907009|958728|1

Analyst: JXL

Autosampler Location: 109

Date Collected: 3/12/2010 12:38:29

Data Type: Original

Replicate Data: 247907009|958728|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.320	0.320	0.0043	0.0224	0.0051	12:39:21	Yes
2	0.323	0.323	0.0043	0.0226	0.0051	12:39:51	Yes
Mean:	0.321	0.321	0.0043				
SD:	0.002	0.002	0.0000				
%RSD:	0.662	0.662	0.63				

Sequence No.: 128

Sample ID: 247907010|958728|1

Analyst: JXL

Autosampler Location: 110

Date Collected: 3/12/2010 12:40:11

Data Type: Original

Replicate Data: 247907010|958728|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.161	0.161	0.0023	0.0137	0.0031	12:41:03	Yes
2	0.163	0.163	0.0023	0.0138	0.0031	12:41:33	Yes
Mean:	0.162	0.162	0.0023				
SD:	0.001	0.001	0.0000				
%RSD:	0.907	0.907	0.82				

Sequence No.: 129

Sample ID: 247907011|958728|1

Analyst: JXL

Autosampler Location: 111

Date Collected: 3/12/2010 12:41:53

Data Type: Original

Replicate Data: 247907011|958728|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.167	0.167	0.0023	0.0139	0.0031	12:42:46	Yes
2	0.163	0.163	0.0023	0.0139	0.0031	12:43:15	Yes
Mean:	0.165	0.165	0.0023				
SD:	0.003	0.003	0.0000				
%RSD:	1.956	1.956	1.77				

Sequence No.: 130

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 3/12/2010 12:43:36

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.056	5.056	0.0646	0.2990	0.0654	12:44:26	Yes
2	5.035	5.035	0.0643	0.2974	0.0651	12:44:56	Yes
Mean:	5.045	5.045	0.0645				
SD:	0.015	0.015	0.0002				
%RSD:	0.304	0.304	0.30				

QC value within limits for Hg 253.7 Recovery = 100.91%
All analyte(s) passed QC.

Sequence No.: 131
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 3/12/2010 12:45:15
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.026	-0.026	-0.0001	0.0030	0.0007	12:46:05	Yes
2	-0.026	-0.026	-0.0001	0.0030	0.0007	12:46:35	Yes
Mean:	-0.026	-0.026	-0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	0.993	0.993	2.77				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 132
Sample ID: 247907012|958728|1
Analyst: JXL

Autosampler Location: 112
Date Collected: 3/12/2010 12:46:55
Data Type: Original

Replicate Data: 247907012|958728|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.291	0.291	0.0039	0.0212	0.0047	12:47:47	Yes
2	0.287	0.287	0.0039	0.0209	0.0047	12:48:17	Yes
Mean:	0.289	0.289	0.0039				
SD:	0.003	0.003	0.0000				
%RSD:	0.878	0.878	0.83				

Sequence No.: 133
Sample ID: 247907013|958728|1
Analyst: JXL

Autosampler Location: 113
Date Collected: 3/12/2010 12:48:38
Data Type: Original

Replicate Data: 247907013|958728|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.501	0.501	0.0066	0.0335	0.0074	12:49:29	Yes
2	0.505	0.505	0.0066	0.0334	0.0074	12:49:59	Yes
Mean:	0.503	0.503	0.0066				
SD:	0.002	0.002	0.0000				
%RSD:	0.476	0.476	0.46				

Sequence No.: 134
Sample ID: 247907014|958728|1
Analyst: JXL

Autosampler Location: 114
Date Collected: 3/12/2010 12:50:20
Data Type: Original

Replicate Data: 247907014|958728|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.292	0.292	0.0039	0.0216	0.0047	12:51:11	Yes
2	0.293	0.293	0.0039	0.0215	0.0047	12:51:41	Yes
Mean:	0.292	0.292	0.0039				
SD:	0.000	0.000	0.0000				
%RSD:	0.085	0.085	0.08				

Sequence No.: 135
Sample ID: 247907015|958728|1
Analyst: JXL

Autosampler Location: 115
Date Collected: 3/12/2010 12:52:02
Data Type: Original

Replicate Data: 247907015|958728|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
------	------------	---------	---------	------	------	------	------

Replicate Data: 249093001|964089|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.054	-0.054	-0.0005	0.0014	0.0003	13:01:27	Yes
2	-0.055	-0.055	-0.0005	0.0010	0.0003	13:01:57	Yes
Mean:	-0.055	-0.055	-0.0005				
SD:	0.001	0.001	0.0000				
%RSD:	1.901	1.901	2.75				

Sequence No.: 141

Autosampler Location: 121

Sample ID: 1202068282|964089|1

Date Collected: 3/12/2010 13:02:17

Analyst: JXL

Data Type: Original

Replicate Data: 1202068282|964089|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.001	2.001	0.0257	0.1220	0.0265	13:03:10	Yes
2	1.998	1.998	0.0257	0.1213	0.0265	13:03:40	Yes
Mean:	2.000	2.000	0.0257				
SD:	0.002	0.002	0.0000				
%RSD:	0.100	0.100	0.10				

Sequence No.: 142

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/12/2010 13:04:00

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.038	5.038	0.0644	0.2986	0.0652	13:04:50	Yes
2	5.054	5.054	0.0646	0.2980	0.0654	13:05:20	Yes
Mean:	5.046	5.046	0.0645				
SD:	0.011	0.011	0.0001				
%RSD:	0.224	0.224	0.22				

QC value within limits for Hg 253.7 Recovery = 100.91%
All analyte(s) passed QC.

Sequence No.: 143

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/12/2010 13:05:39

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.026	-0.026	-0.0001	0.0030	0.0007	13:06:30	Yes
2	-0.028	-0.028	-0.0001	0.0026	0.0007	13:06:59	Yes
Mean:	-0.027	-0.027	-0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	5.982	5.982	15.81				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 144

Autosampler Location: 122

Sample ID: 1202068283|964089|1

Date Collected: 3/12/2010 13:07:19

Analyst: JXL

Data Type: Original

Replicate Data: 1202068283|964089|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.982	1.982	0.0255	0.1205	0.0263	13:08:11	Yes
2	1.961	1.961	0.0252	0.1192	0.0260	13:08:41	Yes

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.050	-0.050	-0.0004	0.0016	0.0004	13:16:46	Yes
2	-0.050	-0.050	-0.0004	0.0017	0.0004	13:17:16	Yes
Mean:	-0.050	-0.050	-0.0004				
SD:	0.000	0.000	0.0000				
%RSD:	0.288	0.288	0.44				

Sequence No.: 150

Autosampler Location: 128

Sample ID: 1202067161|963551|1

Date Collected: 3/12/2010 13:17:36

Analyst: JXL

Data Type: Original

Replicate Data: 1202067161|963551|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.056	-0.056	-0.0005	0.0016	0.0003	13:18:29	Yes
2	-0.056	-0.056	-0.0005	0.0016	0.0003	13:18:59	Yes
Mean:	-0.056	-0.056	-0.0005				
SD:	0.000	0.000	0.0000				
%RSD:	0.758	0.758	1.08				

Sequence No.: 151

Autosampler Location: 129

Sample ID: 1202067162|963551|1

Date Collected: 3/12/2010 13:19:19

Analyst: JXL

Data Type: Original

Replicate Data: 1202067162|963551|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.460	2.460	0.0315	0.1458	0.0323	13:20:11	Yes
2	2.455	2.455	0.0315	0.1448	0.0323	13:20:41	Yes
Mean:	2.457	2.457	0.0315				
SD:	0.003	0.003	0.0000				
%RSD:	0.140	0.140	0.14				

Sequence No.: 152

Autosampler Location: 130

Sample ID: 249004001|963551|1

Date Collected: 3/12/2010 13:21:02

Analyst: JXL

Data Type: Original

Replicate Data: 249004001|963551|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.097	0.097	0.0015	0.0099	0.0022	13:21:54	Yes
2	0.101	0.101	0.0015	0.0108	0.0023	13:22:24	Yes
Mean:	0.099	0.099	0.0015				
SD:	0.003	0.003	0.0000				
%RSD:	3.168	3.168	2.71				

Sequence No.: 153

Autosampler Location: 131

Sample ID: 1202067163|963551|1

Date Collected: 3/12/2010 13:22:45

Analyst: JXL

Data Type: Original

Replicate Data: 1202067163|963551|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.375	2.375	0.0305	0.1441	0.0313	13:23:37	Yes
2	2.358	2.358	0.0302	0.1424	0.0310	13:24:07	Yes
Mean:	2.366	2.366	0.0303				
SD:	0.012	0.012	0.0002				
%RSD:	0.519	0.519	0.52				

Sequence No.: 154

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/12/2010 13:24:28

Analyst:

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.125	5.125	0.0655	0.3042	0.0663	13:25:18	Yes
2	5.144	5.144	0.0657	0.3038	0.0665	13:25:48	Yes
Mean:	5.135	5.135	0.0656				
SD:	0.013	0.013	0.0002				
%RSD:	0.263	0.263	0.26				

QC value within limits for Hg 253.7 Recovery = 102.70%

All analyte(s) passed QC.

Sequence No.: 155

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/12/2010 13:26:07

Analyst:

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.045	-0.045	-0.0004	0.0018	0.0004	13:26:58	Yes
2	-0.044	-0.044	-0.0004	0.0017	0.0004	13:27:28	Yes
Mean:	-0.044	-0.044	-0.0004				
SD:	0.000	0.000	0.0000				
%RSD:	0.173	0.173	0.28				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 156

Autosampler Location: 132

Sample ID: 1202067164|963551|1

Date Collected: 3/12/2010 13:27:48

Analyst: JXL

Data Type: Original

Replicate Data: 1202067164|963551|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.318	2.318	0.0297	0.1409	0.0305	13:28:39	Yes
2	2.326	2.326	0.0298	0.1410	0.0306	13:29:09	Yes
Mean:	2.322	2.322	0.0298				
SD:	0.005	0.005	0.0001				
%RSD:	0.226	0.226	0.22				

Sequence No.: 157

Autosampler Location: 133

Sample ID: 1202067165|963551|5

Date Collected: 3/12/2010 13:29:30

Analyst: JXL

Data Type: Original

Replicate Data: 1202067165|963551|5

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.020	-0.020	-0.0000	0.0034	0.0008	13:30:23	Yes
2	-0.023	-0.023	-0.0001	0.0029	0.0007	13:30:52	Yes
Mean:	-0.021	-0.021	-0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	10.75	10.75	51.61				

Sequence No.: 158

Autosampler Location: 134

Sample ID: 1202068259|964080|1

Date Collected: 3/12/2010 13:31:13

Analyst: JXL

Data Type: Original

Replicate Data: 1202068259|964080|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.059	-0.059	-0.0005	0.0011	0.0003	13:32:06	Yes

Replicate Data: 1202068263|964080|5

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.054	-0.054	-0.0005	0.0012	0.0003	13:40:40	Yes
2	-0.055	-0.055	-0.0005	0.0014	0.0003	13:41:10	Yes
Mean:	-0.054	-0.054	-0.0005				
SD:	0.000	0.000	0.0000				
%RSD:	0.844	0.844	1.22				

Sequence No.: 164

Autosampler Location: 140

Sample ID: 248996002|964080|1

Date Collected: 3/12/2010 13:41:31

Analyst: JXL

Data Type: Original

Replicate Data: 248996002|964080|1

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.058	-0.058	-0.0005	0.0012	0.0003	13:42:23	Yes
2	-0.058	-0.058	-0.0005	0.0012	0.0003	13:42:53	Yes
Mean:	-0.058	-0.058	-0.0005				
SD:	0.000	0.000	0.0000				
%RSD:	0.397	0.397	0.56				

Sequence No.: 165

Autosampler Location: 141

Sample ID: 248996003|964080|1

Date Collected: 3/12/2010 13:43:14

Analyst: JXL

Data Type: Original

Replicate Data: 248996003|964080|1

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.064	-0.064	-0.0006	0.0005	0.0002	13:44:07	Yes
2	-0.060	-0.060	-0.0006	0.0007	0.0002	13:44:37	Yes
Mean:	-0.062	-0.062	-0.0006				
SD:	0.002	0.002	0.0000				
%RSD:	3.961	3.961	5.44				

Sequence No.: 166

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/12/2010 13:44:58

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.093	5.093	0.0651	0.3041	0.0659	13:45:48	Yes
2	5.092	5.092	0.0650	0.3033	0.0658	13:46:18	Yes
Mean:	5.092	5.092	0.0651				
SD:	0.001	0.001	0.0000				
%RSD:	0.020	0.020	0.02				

QC value within limits for Hg 253.7 Recovery = 101.85%

All analyte(s) passed QC.

Sequence No.: 167

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/12/2010 13:46:37

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.040	-0.040	-0.0003	0.0020	0.0005	13:47:28	Yes
2	-0.043	-0.043	-0.0003	0.0017	0.0005	13:47:58	Yes
Mean:	-0.042	-0.042	-0.0003				
SD:	0.002	0.002	0.0000				
%RSD:	4.094	4.094	6.88				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 168

Sample ID: 248996004|964080|1

Analyst: JXL

Autosampler Location: 142

Date Collected: 3/12/2010 13:48:18

Data Type: Original

Replicate Data: 248996004|964080|1

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.059	-0.059	-0.0005	0.0012	0.0003	13:49:10	Yes
2	-0.061	-0.061	-0.0006	0.0009	0.0002	13:49:40	Yes
Mean:	-0.060	-0.060	-0.0005				
SD:	0.001	0.001	0.0000				
%RSD:	2.315	2.315	3.22				

Sequence No.: 169

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 3/12/2010 13:50:01

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.064	5.064	0.0647	0.3027	0.0655	13:50:51	Yes
2	5.054	5.054	0.0646	0.3021	0.0654	13:51:21	Yes
Mean:	5.059	5.059	0.0646				
SD:	0.007	0.007	0.0001				
%RSD:	0.139	0.139	0.14				

QC value within limits for Hg 253.7 Recovery = 101.18%
All analyte(s) passed QC.

Sequence No.: 170

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/12/2010 13:51:40

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.041	-0.041	-0.0003	0.0019	0.0005	13:52:31	Yes
2	-0.043	-0.043	-0.0003	0.0018	0.0005	13:53:01	Yes
Mean:	-0.042	-0.042	-0.0003				
SD:	0.002	0.002	0.0000				
%RSD:	3.707	3.707	6.22				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====
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\031210S1.SIF
Batch ID:
Results Data Set: 031210S1
Results Library: C:\data-AA\Administrator\Results\Results.mdb=====
Method Loaded

Method Name: SOIL

Method Last Saved: 1/4/2010 13:53:20

Method Description: 7471A, ILM04 ANALYST JXL

=====
Sequence No.: 1

Sample ID: 248198007|958770|100

Analyst: JXL

Autosampler Location: 60

Date Collected: 3/12/2010 14:04:14

Data Type: Original

Replicate Data: 248198007|958770|100

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.547	1.547	0.0199	0.0946	0.0207	14:05:05	Yes
2	1.551	1.551	0.0200	0.0946	0.0208	14:05:35	Yes
Mean:	1.549	1.549	0.0199				
SD:	0.003	0.003	0.0000				
%RSD:	0.184	0.184	0.18				

Sequence No.: 2

Sample ID: 248198008|958770|100

Analyst: JXL

Autosampler Location: 61

Date Collected: 3/12/2010 14:05:55

Data Type: Original

Replicate Data: 248198008|958770|100

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.962	1.962	0.0252	0.1192	0.0260	14:06:47	Yes
2	1.938	1.938	0.0249	0.1172	0.0257	14:07:17	Yes
Mean:	1.950	1.950	0.0250				
SD:	0.017	0.017	0.0002				
%RSD:	0.886	0.886	0.88				

Sequence No.: 3

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 3/12/2010 14:07:37

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.873	4.873	0.0623	0.2889	0.0631	14:08:27	Yes
2	4.857	4.857	0.0621	0.2867	0.0629	14:08:57	Yes
Mean:	4.865	4.865	0.0622				
SD:	0.012	0.012	0.0001				
%RSD:	0.241	0.241	0.24				

QC value within limits for Hg 253.7 Recovery = 97.30%
All analyte(s) passed QC.-----
Sequence No.: 4

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/12/2010 14:09:16

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.040	-0.040	-0.0003	0.0023	0.0005	14:10:06	Yes
2	-0.040	-0.040	-0.0003	0.0023	0.0005	14:10:36	Yes
Mean:	-0.040	-0.040	-0.0003				
SD:	0.000	0.000	0.0000				
%RSD:	1.162	1.162	2.00				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Miscellaneous

Prep Logbook

Acid Digestion of Sediments, Sludges, and Soils

Batch ID: 959126.0
Analyst: Francena Armstrong
Method: SW846 3050B
Lab SOP: GL-MA-E-009 REV# 19
Instrument: Sartorius Balance B-001

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202056923	Metals Soil LCS SRM ICP/Hg	U1062540-1	.514	g
MS	1202056921	Metals Spike Mix I	U1100205-01	.25	mL
MS	1202056921	Metals Spike Mix II	U1100205-06	.25	mL
MSD	1202056922	Metals Spike Mix I	U1100205-01	.25	mL
MSD	1202056922	Metals Spike Mix II	U1100205-06	.25	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check I
1202056918 MB	04-MAR-2010 14:00:00	Soil	0.505	50	99.0099	
1202056923 LCS	04-MAR-2010 14:00:00	Soil	0.514	50	97.27626	
248198001	04-MAR-2010 14:00:00	Soil	0.517	50	96.7118	
1202056919 DUP (248198001)	04-MAR-2010 14:00:00	Soil	0.51	50	98.03922	
1202056920 SDILT (248198001)	04-MAR-2010 14:00:00	Soil	0.517	50	96.7118	
1202056921 MS (248198001)	04-MAR-2010 14:00:00	Soil	0.509	50	98.23183	
1202056922 MSD (248198001)	04-MAR-2010 14:00:00	Soil	0.5	50	100	
248198002	04-MAR-2010 14:00:00	Soil	0.518	50	96.5251	
248198003	04-MAR-2010 14:00:00	Soil	0.527	50	94.87666	
248198004	04-MAR-2010 14:00:00	Soil	0.52	50	96.15385	
248198005	04-MAR-2010 14:00:00	Soil	0.512	50	97.65625	
248198006	04-MAR-2010 14:00:00	Soil	0.502	50	99.60159	
248198007	04-MAR-2010 14:00:00	Soil	0.512	50	97.65625	
248198008	04-MAR-2010 14:00:00	Soil	0.573	50	87.26003	
248198009	04-MAR-2010 14:00:00	Soil	0.501	50	99.8004	
248198010	04-MAR-2010 14:00:00	Soil	0.562	50	88.96797	
248198011	04-MAR-2010 14:00:00	Soil	0.507	50	98.61933	
248198012	04-MAR-2010 14:00:00	Soil	0.522	50	95.78544	

Reagent/Solvent Lot ID	Description	Amount	Comments:
1277916	HYDROCHLORIC ACID	10 mL	Brown, soil w/artifacts.
1277919	Nitric Acid CONC.	1.25 mL	

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GEL Laboratories LLC

Prep Logbook

Acid Digestion of Sediments, Sludges, and Soils

Batch ID: 959128.0 Verified by: _____
 Analyst: Francena Armstrong Lab SOP: GL-MA-E-009 REV# 19
 Method: SW846 3050B Instrument: Sartorius Balance B-001

Sample ID	Run Date	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check
1202056924 MB	04-MAR-2010 14:00:00	0.52	50	96.15385	
1202056929 LCS	04-MAR-2010 14:00:00	0.505	50	99.0099	
248198001	04-MAR-2010 14:00:00	0.528	50	94.69697	
1202056925 DUP (248198001)	04-MAR-2010 14:00:00	0.514	50	97.27626	
1202056926 SDILT (248198001)	04-MAR-2010 14:00:00	0.528	50	94.69697	
1202056927 MS (248198001)	04-MAR-2010 14:00:00	0.517	50	96.7118	
1202056928 MSD (248198001)	04-MAR-2010 14:00:00	0.501	50	99.8004	
248198002	04-MAR-2010 14:00:00	0.541	50	92.42144	
248198003	04-MAR-2010 14:00:00	0.5	50	100	
248198004	04-MAR-2010 14:00:00	0.508	50	98.4252	
248198005	04-MAR-2010 14:00:00	0.5	50	100	
248198006	04-MAR-2010 14:00:00	0.506	50	98.81423	
248198007	04-MAR-2010 14:00:00	0.526	50	95.05703	
248198008	04-MAR-2010 14:00:00	0.509	50	98.23183	
248198009	04-MAR-2010 14:00:00	0.537	50	93.10987	
248198010	04-MAR-2010 14:00:00	0.525	50	95.2381	
248198011	04-MAR-2010 14:00:00	0.526	50	95.05703	
248198012	04-MAR-2010 14:00:00	0.504	50	99.20635	

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202056929	Metals Soil LCS SRM ICPMS	U1062540-MS	.505	g	
MS	1202056927	ICP-MS Spike for soil products.	U1090827-A	.5	mL	Brown,soit w/artifacts.
MS	1202056927	ICP-MS Spike for Soil Products	U1090827-B	.5	mL	
MSD	1202056928	ICP-MS Spike for soil products.	U1090827-A	.5	mL	
MSD	1202056928	ICP-MS Spike for Soil Products	U1090827-B	.5	mL	
REGNT	All	Hydrogen Peroxide 30%	1250038-02	1.5	mL	
REGNT	All	Nitric Acid CONC.	1277919	5	mL	

Prep Logbook

Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Batch ID: 958769.0
Analyst: Tara Griffin
Method: SW846 7471A Prep
Lab SOP: GL-MA-E-010 REV# 23
Instrument: BAL-002

Verified by: _____

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1	Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
1202056211 MB	11-MAR-2010 14:30:00	Soil	0.574	30	52.26481		LCS	1202056212	Metals LCS Soil SRM	UI031809A	.208	g
1202056212 LCS	11-MAR-2010 14:30:00	Soil	0.208	30	144.23077		MS	1202056214	Mercury soil working intermediate standard for MS	WHG1003111-14	.3	mL
248189001	11-MAR-2010 14:30:00	Soil	0.509	30	58.9391		MSD	1202056216	Mercury soil working intermediate standard for MS	WHG1003111-14	.3	mL
1202056213 DUP (248189001)	11-MAR-2010 14:30:00	Soil	0.583	30	51.45798							
1202056214 MS (248189001)	11-MAR-2010 14:30:00	Soil	0.521	30	57.58157							
1202056216 MSD (248189001)	11-MAR-2010 14:30:00	Soil	0.528	30	56.81818							
1202056215 SDILT (248189001)	11-MAR-2010 14:30:00	Soil	0.509	30	58.9391							
248189002	11-MAR-2010 14:30:00	Soil	0.524	30	57.25191							
248198001	11-MAR-2010 14:30:00	Soil	0.514	30	58.36576							
248198002	11-MAR-2010 14:30:00	Soil	0.569	30	52.72408							
248198003	11-MAR-2010 14:30:00	Soil	0.545	30	55.04587							
248198004	11-MAR-2010 14:30:00	Soil	0.576	30	52.08333							
248198005	11-MAR-2010 14:30:00	Soil	0.511	30	58.70841							
248198006	11-MAR-2010 14:30:00	Soil	0.501	30	59.88024							
248198007	11-MAR-2010 14:30:00	Soil	0.521	30	57.58157							
248198008	11-MAR-2010 14:30:00	Soil	0.515	30	58.25243							
248198009	11-MAR-2010 14:30:00	Soil	0.565	30	53.09735							
248198010	11-MAR-2010 14:30:00	Soil	0.546	30	54.94505							
248198011	11-MAR-2010 14:30:00	Soil	0.581	30	51.63511							
248198012	11-MAR-2010 14:30:00	Soil	0.52	30	57.69231							
248202001	11-MAR-2010 14:30:00	Soil	0.567	30	52.91005							
248202002	11-MAR-2010 14:30:00	Soil	0.536	30	55.97015							
248203002	11-MAR-2010 14:30:00	Soil	0.523	30	57.36138							

Reagent/Solvent Lot ID	Description	Amount	Comments:
1255532-C	Hg reducing agent	2 mL	Sample 248189001 is a clumpy dark soil.

GEL Laboratories LLC

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Prep Logbook

Batch ID: 958769.0
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	1202056212	Metals LCS Soil SRM	U1031809A	.208	g
MS	1202056214	Mercury soil working intermediate standard for MS	WHG100311-14	.3	mL
MSD	1202056216	Mercury soil working intermediate standard for MS	WHG100311-14	.3	mL

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			Digestion Start Date: 11-MAR-10 14:30
1277235-A		Hydrochloric Acid Conc.	1.125 mL			Digestion End Date: 11-MAR-10 15:00
1277238-C		5% KMnO4 solution	7.5 mL			
WHG100311-07		Mercury Working Standard 1st Source CAL S 0.2/CRA	30 uL			
WHG100311-08		Mercury Working Standard 1st Source CAL S 0.5	75 uL			
WHG100311-09		Mercury Working 1st Source CAL S 2.0	300 uL			
WHG100311-10		Mercury Working 1st Source CAL S 5.0/CCV	750 uL			
WHG100311-11		Mercury Working 1st Source CAL S 10.0	1.5 mL			
WHG100311-12		Mercury Working 2nd Source S 5.0/CCV	750 uL			

DATA EXCEPTION REPORT

Mo.Day Yr.
12-MAR-10

Division:
Industrial

Quality Criteria:
Specifications

Type:
Process

Instrument Type:
MERCURY

Test / Method:
SW846 7471A

Matrix Type:
Solid

Client Code:
LANL

Batch ID:
958770

Sample Numbers:
See Below

Potentially affected work order(s)(SDG): 248189(10-2120-1),248198(10-2122),248202(10-2124),248203(10-2125)

Application Issues:

Failed RPD for MS/MSD, or PS/PSD

**Specification and Requirements
Exception Description:**

DER Disposition:

1. Failed RPD for MS/MSD, or PS/PSD:

QC 1202056216MSD

1. The matrix spike and matrix spike duplicate % RPD failed outside of the control limits for Hg due to possible matrix interferences and/or sample non-homogeneity. Sample is a clumpy, dark 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

12-MAR-10

Data Validator/Group Leader:

Jamie Johnson

14-MAR-10

DATA EXCEPTION REPORT

Mo.Day Yr. 05-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: 959127	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 248198(10-2122)			
Application Issues: Failed Recovery for MS/PS Method Blank contamination Failed Recovery for MSD/PSD			
Specification and Requirements Exception Description:		DER Disposition:	
1. Failed Recovery for MS/PS: QC 1202056921MS 2. Failed Recovery for MSD/PSD: QC 1202056922MSD 3. Method Blank Contamination: QC 1202056918MB		1. The matrix spike recovery failed outside of the control limits for barium,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. 2. The samples in this SDG contained the above noted analytes at concentrations more than ten times the amount present in the method blank (MB), therefore the data was not adversely affected. 3. The matrix spike duplicate recovery failed outside of the control limits for 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.	

Originator's Name:

Helen Camello 05-APR-10

Data Validator/Group Leader:

Louise Smith 06-APR-10

DATA EXCEPTION REPORT

Mo.Day Yr.
13-APR-10

Division:
Industrial

Quality Criteria:
Specifications

Type:
Process

Instrument Type:
ICP/MS

Test / Method:
SW846 3050B/6020

Matrix Type:
Solid

Client Code:
LANL

Batch ID:
959129

Sample Numbers:
See Below

Potentially affected work order(s)(SDG): 248198(10-2122)

Application Issues:

Failed Recovery for MSD/PSD

**Specification and Requirements
Exception Description:**

1. Failed Recovery for MSD/PSD:

QC 1202056928MSD

DER Disposition:

The matrix spike duplicate recovery failed outside of the control limits for Se 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.

Originator's Name:

Samantha Jacobs 13-APR-10

Data Validator/Group Leader:

Jamie Johnson 14-APR-10

Standard Logbook

Serial ID: UHG1167639-01 **Opened:** 13-AUG-09 **Amount :** 125 mL
Name: MHGSTOCK1 **Received:** 13-AUG-09 **Catalog Number :** PLHG4-2Y
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 15-37HG
Employee: Bryan Davis **Solvent :** 10% HNO3
Supplier: Spex
Description: Mercury Source Standard #1 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	1000 mg/L		

Serial ID: UHG1167641-02 **Opened:** 13-AUG-09 **Amount :** 100 mL
Name: MHGSTOCK2 **Received:** 13-AUG-09 **Catalog Number :** AHG1KN-100
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 4905530
Employee: Bryan Davis **Solvent :** 3% HNO3
Supplier: Ricca Chemical Company
Description: Mercury Source Standard #2 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	999.7 mg/L		

Serial ID: UI031809A **Opened:** 18-MAR-09 **Catalog Number :** 540
Name: METALSOILSRM **Received:** 18-MAR-09 **Lot Number :** D061-540
Type: Source Material **Expires:** 10-OCT-10
Employee: Jamie Johnson
Supplier: ERA
Description: Metals LCS Soil SRM
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10600 mg/kg	Antimony	126 mg/kg
Arsenic	225 mg/kg	Barium	565 mg/kg
Beryllium	162 mg/kg	Boron	107 mg/kg
Cadmium	69.1 mg/kg	Calcium	10000 mg/kg
Chromium	124 mg/kg	Cobalt	115 mg/kg
Copper	66.7 mg/kg	Iron	17600 mg/kg
Lead	223 mg/kg	Magnesium	4260 mg/kg
Manganese	368 mg/kg	Mercury	5.15 mg/kg
Molybdenum	107 mg/kg	Nickel	172 mg/kg
Potassium	4090 mg/kg	Selenium	147 mg/kg
Silver	35.2 mg/kg	Sodium	538 mg/kg
Strontium	117 mg/kg	Thallium	173 mg/kg
Tin	164 mg/kg	Titanium	381 mg/kg
Vanadium	93.9 mg/kg	Zinc	349 mg/kg

Standard Logbook

Serial ID: UI062540-I **Opened:** 12-JUN-09 **Amount :** 80 g
Name: ICP SOIL SRM **Received:** 12-JUN-09 **Lot Number :** D062-540
Type: Source Material **Expires:** 12-JUN-10
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICP/Hg
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	173 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.7 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Magnesium	4000 mg/kg
Manganese	558 mg/kg	Mercury	8.46 mg/kg
Molybdenum	48.6 mg/kg	Nickel	134 mg/kg
Phosphorous	736 mg/kg	Potassium	4300 mg/kg
Selenium	286 mg/kg	Silica	2591 mg/kg
Silicon	1211 mg/kg	Silver	30.1 mg/kg
Sodium	1020 mg/kg	Strontium	227 mg/kg
Sulfur	385 mg/kg	Thallium	121 mg/kg
Tin	104 mg/kg	Titanium	462 mg/kg
Vanadium	115 mg/kg	Zinc	594 mg/kg

Serial ID: UI062540-MS **Opened:** 12-JUN-09 **Lot Number :** D062-540
Name: ICPMS SOIL SRM **Received:** 12-JUN-09
Type: Source Material **Expires:** 12-JAN-10
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICPMS
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	67.4 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.6 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Lithium	10.6 mg/kg
Magnesium	4000 mg/kg	Manganese	558 mg/kg
Mercury	8.46 mg/kg	Molybdenum	48.6 mg/kg
Nickel	134 mg/kg	Phosphorous	755 mg/kg
Potassium	4300 mg/kg	Selenium	286 mg/kg
Silver	30.1 mg/kg	Sodium	1020 mg/kg

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Strontium	227 mg/kg	Thallium	121 mg/kg
Thorium	9.84 mg/kg	Tin	104 mg/kg
Titanium	462 mg/kg	Uranium	2.13 mg/kg
Uranium-235	.0153 mg/kg	Uranium-238	2.11 mg/kg
Vanadium	92.4 mg/kg	Zinc	594 mg/kg
Zirconium	10.6 mg/kg		

Serial ID: UI090421-40 **Opened:** 09-OCT-09 **Amount :** 250 mL
Name: TRACE ICP Na-1000SOUR **Received:** 21-APR-09 **Catalog Number :** HP100052-1
Type: Source Material **Expires:** 09-OCT-10 **Lot Number :** 0830227
Employee: Helen Camello **Solvent :** 1%HNO3
Supplier: ENVIRONMENTAL EXPRESS
Description: Sodium 1000 +/- 3 ug/mL in 1% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL		

Serial ID: UI090422-40 **Opened:** 04-MAY-09 **Amount :** 500 mL
Name: TRACE ICP ICSA SOLN A **Received:** 22-APR-09 **Catalog Number :** 160005-01-03
Type: Source Material **Expires:** 04-MAY-10 **Lot Number :** 1013357
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: o2si
Description: TRACE ICP ICSA SOLN A mg/L +/- 0.5% IN 5% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Calcium	5000 mg/L
Iron	2000 mg/L	Magnesium	5000 mg/L

Serial ID: UI090612-02 **Opened:** 12-JUN-09 **Catalog Number :** 060074-06-01
Name: ICPMS Tungsten - 10mg/L **Received:** 12-JUN-09 **Lot Number :** 1016377
Type: Source Material **Expires:** 12-JUN-10 **Solvent :** 2% HNO3
Employee: Paul Boyd
Supplier: O2SI
Description: ICPMS Tungsten standard SPIKE - 10mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Tungsten	10 mg/L		

Standard Logbook

Serial ID: UI090701-09 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #1 **Received:** 01-JUL-09 **Catalog Number :** 160044-09-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016477
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: 02SI
Description: ICPMS CRDL Master Soln #1
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	15 mg/L	Arsenic	5 mg/L
Barium	2 mg/L	Beryllium	.5 mg/L
Boron	15 mg/L	Cadmium	1 mg/L
Calcium	100 mg/L	Chromium	3 mg/L
Cobalt	1 mg/L	Copper	1 mg/L
Iron	25 mg/L	Lead	2 mg/L
Lithium	10 mg/L	Magnesium	15 mg/L
Manganese	5 mg/L	Nickel	2 mg/L
Phosphorous	50 mg/L	Potassium	300 mg/L
Selenium	5 mg/L	Sodium	250 mg/L
Strontium	10 mg/L	Thallium	1 mg/L
Thorium	1 mg/L	Uranium	.2 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UI090701-10 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #2 **Received:** 01-JUL-09 **Catalog Number :** 160044-08-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016476
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: 02SI
Description: ICPMS CRDL Soln #2
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Molybdenum	.5 mg/L
Silver	1 mg/L	Tin	2 mg/L
Titanium	10 mg/L	Tungsten	5 mg/L
Zirconium	2 mg/L		

Serial ID: UI090701-40 **Opened:** 01-JUL-09 **Amount :** 500 mL
Name: TRACE ICP Stock PQL St **Received:** 30-JUN-09 **Catalog Number :** 160543-01-03
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016475
Employee: Helen Camello **Solvent :** +/- 0.5% in 2% HNO3 + TrHF
Supplier: 02si
Description: TRACE ICP Stock PQL Standard
Comments: None

Analyte	Concentration	Analyte	Concentration
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Standard Logbook

Analyte	Concentration	Analyte	Concentration
Aluminum	100 mg/L	Antimony	5 mg/L
Arsenic	15 mg/L	Barium	2.5 mg/L
Beryllium	2.5 mg/L	Boron	25 mg/L
Cadmium	2.5 mg/L	Calcium	100 mg/L
Chromium	2.5 mg/L	Cobalt	2.5 mg/L
Copper	5 mg/L	Iron	50 mg/L
Lead	5 mg/L	Magnesium	150 mg/L
Manganese	5 mg/L	Molybdenum	5 mg/L
Nickel	2.5 mg/L	Phosphorous	75 mg/L
Potassium	75 mg/L	Selenium	15 mg/L
Silicon	50 mg/L	Silver	2.5 mg/L
Sodium	150 mg/L	Strontium	2.5 mg/L
Sulfur	50 mg/L	Thallium	10 mg/L
Tin	5 mg/L	Titanium	2.5 mg/L
Uranium	25 mg/L	Vanadium	2.5 mg/L
Zinc	5 mg/L		

Serial ID: UI090827-A **Opened:** 27-AUG-09 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 27-AUG-09 **Lot Number :** 1015749
Type: Source Material **Expires:** 27-AUG-10
Employee: Francena Armstrong
Supplier: 02si
Description: ICP-MS Spike for soil products.
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	8 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Boron	10 mg/L	Cadmium	1 mg/L
Calcium	200 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	20 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorus, Total as P	200 mg/L	Potassium	200 mg/L
Selenium	2 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	10 mg/L
Thorium	5 mg/L	Uranium	5 mg/L
Uranium-235	.036 mg/L	Uranium-238	4.964 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Standard Logbook

Serial ID: UI090827-B **Opened:** 27-AUG-09 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 27-AUG-09 **Lot Number :** 1015749
Type: Source Material **Expires:** 27-AUG-10
Employee: Francena Armstrong
Supplier: 02si
Description: ICP-MS Spike for Soil Products
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	5 mg/L
Silicon	200 mg/L	Silver	5 mg/L
Tin	5 mg/L	Zirconium	5 mg/L

Serial ID: UI090925-40 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX38-500N
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909129
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1A 5%HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Arsenic	100 mg/L
Barium	100 mg/L	Boron	100 mg/L
Cadmium	100 mg/L	Calcium	1000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	1000 mg/L
Lead	100 mg/L	Phosphorous	500 mg/L
Potassium	500 mg/L	Selenium	500 mg/L
Sodium	500 mg/L	Strontium	100 mg/L

Serial ID: UI090925-41 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX39-500B
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909130
Employee: Helen Camello **Solvent :** 5%HNO3,TR.HF
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 mg/L	Beryllium	50 mg/L
Magnesium	1000 mg/L	Manganese	100 mg/L
Molybdenum	100 mg/L	Nickel	100 mg/L
Silver	50 mg/L	Sulfur	500 mg/L
Thallium	100 mg/L	Tin	100 mg/L
Titanium	100 mg/L	Uranium	100 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Vanadium	100 mg/L	Zinc	100 mg/L

Serial ID: UI091015-42 **Opened:** 28-OCT-09 **Amount :** 500 mL
Name: SI 1000mg/L **Received:** 15-OCT-09 **Catalog Number :** 060014-02-03
Type: Source Material **Expires:** 28-OCT-10 **Lot Number :** 1017581
Employee: Helen Camello **Solvent :** 0.3%H2O(NH4)2SiF6
Supplier: o2si
Description: Silicon 1000mg/L+/-0.3%in H2O(NH4)2SiF6
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091102-40 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1A SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-1-500
Type: Source Material **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
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Standard Logbook

Analyte	Concentration	Analyte	Concentration
Antimony	200 mg/L	Molybdenum	200 mg/L
Silver	200 mg/L	Sulfur	400 mg/L
Tin	200 mg/L	Titanium	200 mg/L

Serial ID: UI091102-42 **Opened:** 17-NOV-09 **Amount :** 200 mL
Name: SILICON **Received:** 02-NOV-09 **Catalog Number :** HP100050-4F
Type: Source Material **Expires:** 17-NOV-10 **Lot Number :** 0921924
Employee: Helen Camello **Solvent :** H2O/tr HF
Supplier: ENVIRNMENTAL EXPRESS
Description: SILICON 1000mg/L H2O/tr HF
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI100205-01 **Opened:** 05-FEB-10 **Lot Number :** 1018514
Name: METALSPIKE-1 **Received:** 05-FEB-10
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix I
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 ug/mL	Arsenic	100 ug/mL
Barium	100 ug/mL	Beryllium	100 ug/mL
Boron	100 ug/mL	Cadmium	100 ug/mL
Calcium	1000 ug/mL	Cobalt	100 ug/mL
Iron	1000 ug/mL	Lead	100 ug/mL
Magnesium	1000 ug/mL	Phosphorous	100 ug/mL
Potassium	1000 ug/mL	Silver	100 ug/mL
Sodium	1000 ug/mL	Strontium	100 ug/mL

Serial ID: UI100205-06 **Opened:** 05-FEB-10 **Lot Number :** 1018515
Name: METALSPIKE-2 **Received:** 05-FEB-10
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix II
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 ug/mL	Chromium	100 ug/mL
Copper	100 ug/mL	Manganese	100 ug/mL

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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: UI100310-48 **Opened:** 19-MAR-10 **Amount :** 1000 mL
Name: Trace ICP ICESA **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: UI100317-06 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master A **Received:** 17-MAR-10 **Catalog Number :** 160055-01
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019161
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV SOLN A - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2020 mg/L	Calcium	2000 mg/L
Iron	2000 mg/L	Magnesium	2000 mg/L
Phosphorous	2000 mg/L	Potassium	2000 mg/L
Sodium	2000 mg/L		

Serial ID: UI100317-07 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master B **Received:** 17-MAR-10 **Catalog Number :** 160054-02
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019162
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln B - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	20 mg/L	Barium	20 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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 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: Q2SI
Description: ICPMS ICV/CCV Soln C - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	20 mg/L
Silver	20 mg/L	Tin	20 mg/L
Titanium	20 mg/L	Tungsten	20 mg/L
Zirconium	20 mg/L		

Serial ID: UI100318-11 **Opened:** 18-MAR-10 **Amount :** 1000 mL
Name: ICP-MS ICSA Master A **Received:** 18-MAR-10 **Catalog Number :** 160013-01-01L
Type: Source Material **Expires:** 18-MAR-11 **Lot Number :** 1018321
Employee: Paul Boyd **Solvent :** 2% HNO3
Supplier: Q2SI
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

Standard Logbook

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

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: UI100401-48 **Opened:** 02-APR-10 **Amount :** 1000 mL
Name: Trace ICP ICSA **Received:** 01-APR-10 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 02-APR-11 **Lot Number :** 1019463
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Iron	200000 UG/L	Magnesium	500000 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		

Serial ID: UI100405-40 **Opened:** 05-APR-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 02-APR-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 05-APR-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: UI100405-41 **Opened:** 05-APR-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 02-APR-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 05-APR-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: UMS100226-01 **Opened:** 26-FEB-10 **Amount :** 250 mL
Name: ICPMSCalSPIKEB **Received:** 26-FEB-10 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-104JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	10 mg/L	Barium	10 mg/L
Beryllium	10 mg/L	Boron	20 mg/L
Cadmium	10 mg/L	Chromium	10 mg/L
Cobalt	10 mg/L	Copper	10 mg/L
Lead	10 mg/L	Lithium	10 mg/L
Manganese	10 mg/L	Nickel	10 mg/L
Selenium	10 mg/L	Silver	10 mg/L
Strontium	10 mg/L	Thallium	10 mg/L
Thorium	10 mg/L	Uranium	10 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UMS100226-02 **Opened:** 26-FEB-10 **Catalog Number :** ZGEL-102-250
Name: ICPMSCaSPIKEA **Received:** 26-FEB-10 **Lot Number :** 21-103JB
Type: Source Material **Expires:** 26-FEB-11
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Phosphorous	1000 mg/L	Potassium	1000 mg/L
Sodium	1000 mg/L		

Serial ID: UMS100226-03 **Opened:** 26-FEB-10 **Amount :** 250 ml
Name: ICPMSCaSPIKEC **Received:** 26-FEB-10 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-102JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution C
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: IHG100311-01 **Opened:** 11-MAR-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 11-MAR-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 12-MAR-10 **Solvent :** 1mL HNO3 + TypeI H2O
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 1st Source 200 ug/L
Comments: Prepare fresh daily

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Standard Logbook

Serial ID: IHG100311-02 **Opened:** 11-MAR-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 11-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Intermediate **Expires:** 12-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: WHG100311-07 **Opened:** 11-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS0.2CRA **Received:** 11-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 18-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.
IHG100311-01	Mercury	200 ug/L	30 uL	30 mL	.2 ug/L

Serial ID: WHG100311-08 **Opened:** 11-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS0.5 **Received:** 11-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 18-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.
IHG100311-01	Mercury	200 ug/L	75 uL	30 mL	.5 ug/L

Serial ID: WHG100311-09 **Opened:** 11-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS2.0 **Received:** 11-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 18-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 1st Source CAL S 2.0
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100311-01	Mercury	200 ug/L	300 uL	30 mL	2 ug/L

Standard Logbook

Serial ID: WHG100311-10 **Opened:** 11-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS5.0CCV **Received:** 11-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 18-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.
IHG100311-01	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100311-11 **Opened:** 11-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS10.0 **Received:** 11-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 18-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.
IHG100311-01	Mercury	200 ug/L	1.5 mL	30 mL	10 ug/L

Serial ID: WHG100311-12 **Opened:** 11-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKS5.0ICV **Received:** 11-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 18-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.
IHG100311-02	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100311-14 **Opened:** 11-MAR-10 **Pipet Id :** Hg1289245
Name: MHGSOILMSSPIKE **Received:** 11-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 18-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury soil working intermediate standard for MS
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Standard Logbook

Serial ID: WI100329-42 **Opened:** 29-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 30-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1293083
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.1 PPM CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100329-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100329-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100329-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100329-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100329-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100329-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100329-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100329-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100329-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100329-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100329-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Serial ID: WI100329-43 **Opened:** 29-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 30-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1293083
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	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: WI100329-44 **Opened:** 29-MAR-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 30-MAR-10 **Solvent :** 3%HCL and 1 %HNO3-1293083
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
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: WI100329-45 **Opened:** 29-MAR-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 30-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1293083
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP S-10 CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	10 mL	500 mL	20000 UG/L
UI090422-40	Aluminum	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Calcium	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Iron	2000 mg/L	5 mL	500 mL	20000 UG/L
UI090422-40	Magnesium	5000 mg/L	5 mL	500 mL	50000 UG/L

Serial ID: WI100329-46 **Opened:** 29-MAR-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 30-MAR-10 **Solvent :** 3%HCL AND 1%HNO3-1293083
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
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: WI100329-47 **Opened:** 29-MAR-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809
Type: Working **Expires:** 30-MAR-10 **Solvent :** 3%HCL &1%HNO3-1293083
Employee: Helen Camello
Supplier: 02si
Description: PQL Working Standard
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI090701-40	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI090701-40	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
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: WI100405-42 **Opened:** 05-APR-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 06-APR-10 **Solvent :** 3%HCL and 1%HNO3 -1296961
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.
WI100405-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100405-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100405-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100405-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100405-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100405-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100405-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100405-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100405-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100405-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100405-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100405-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100405-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100405-43 **Opened:** 05-APR-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 06-APR-10 **Solvent :** 3%HCL and 1%HNO3 -1296961
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: WI100405-44 **Opened:** 05-APR-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 06-APR-10 **Solvent :** 3%HCL and 1 %HNO3-1296961
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: WI100405-45 **Opened:** 05-APR-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 06-APR-10 **Solvent :** 3%HCL and 1%HNO3 -1296961
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: WI100405-46 **Opened:** 05-APR-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 06-APR-10 **Solvent :** 3%HCL AND 1%HNO3-1296961
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: W100405-47 **Opened:** 05-APR-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809
Type: Working **Expires:** 06-APR-10 **Solvent :** 3%HCL &1%HNO3-1296961
Employee: Helen Carnello
Supplier: O2si
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: WMS100412-04 **Opened:** 12-APR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 12-APR-10 **Balance Id :** 4025216
Type: Working **Expires:** 13-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: WMS100412-04A **Opened:** 12-APR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 12-APR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 13-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.
WMS100412-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100412-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100412-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100412-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100412-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100412-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100412-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100412-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100412-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100412-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100412-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100412-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: <u>WMS100412-05</u>	Opened: <u>12-APR-10</u>	Balance Id : <u>40245216</u>
Name: <u>ICPMS ICV</u>	Received: <u>12-APR-10</u>	Pipet Id : <u>3541598</u>
Type: <u>Working</u>	Expires: <u>13-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: WMS100412-06 **Opened:** 12-APR-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 12-APR-10 **Pipet Id :** 3820544
Type: Working **Expires:** 13-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
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: WMS100412-07 **Opened:** 12-APR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 12-APR-10 **Lot Number :** 1010773
Type: Working **Expires:** 13-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: WMS100412-08 **Opened:** 12-APR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 12-APR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 13-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: 1255532-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-NaCl.NH2OH.HCl-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: Hg reducing agent
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1228372-A	B-NH2OH.HCl-MER	N/A	120 g	1000 mL	N/A

Serial ID: 1274391-1 **Opened:** 24-FEB-10 **Instrument Id :** MERCURY
Name: B-HNO3-MER **Received:** 24-FEB-10 **Lot Number :** H44025
Type: Reagent/Solvent **Expires:** 24-FEB-11
Employee: Tara Griffin
Supplier: Mallinckrodt Chemicals
Description: NITRIC ACID
Comments: None

Serial ID: 1277235-A **Opened:** 01-MAR-10 **Lot Number :** J02039
Name: B-HCl-MER **Received:** 01-MAR-10
Type: Reagent/Solvent **Expires:** 01-MAR-11
Employee: Tara Griffin
Supplier: J T Baker
Description: Hydrochloric Acid Conc.
Comments: None

Serial ID: 1277238-C **Opened:** 01-MAR-10 **Balance Id :** BAL-002
Name: B-KMnO4-MER **Received:** 01-MAR-10
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: 5% KMnO4 solution
Comments: None

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: 1296961 Opened: 05-APR-10 Amount : 20 L
Name: B-ICP-RINSE SOLN Received: 01-APR-10 Lot Number : H04040+G34050
Type: Reagent/Solvent Expires: 11-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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	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 10-2122-1**

Sample Analysis

Sample ID	Client ID
248199001	RE36-10-7529
1202056866	Method Blank (MB) ICP
1202056867	Laboratory Control Sample (LCS)
1202056870	248199001(RE36-10-7529L) Serial Dilution (SD)
1202056868	248199001(RE36-10-7529D) Sample Duplicate (DUP)
1202056869	248199001(RE36-10-7529S) Matrix Spike (MS)
1202056872	Method Blank (MB) ICP-MS
1202056873	Laboratory Control Sample (LCS)
1202056876	248199001(RE36-10-7529L) Serial Dilution (SD)
1202056874	248199001(RE36-10-7529D) Sample Duplicate (DUP)
1202056875	248199001(RE36-10-7529S) 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:	959109, 959112 and 958969
Prep Batch :	959108, 959110 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: 248199001 (RE36-10-7529)-ICP and ICP-MS and 248257001 (RE46-10-13544)-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. Gmore Date: 4.17.10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2122-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248199001

BASIS: As Received

DATE COLLECTED 23-FEB-10

CLIENT ID: RE36-10-7529

LEVEL: Low

DATE RECEIVED 26-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	03/29/10 20:25	032910C-1	959109
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	PRB	04/13/10 14:11	100413-3	959112
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BCD1	04/12/10 05:18	100411-2	959112
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BCD1	04/12/10 05:18	100411-2	959112
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	03/29/10 20:25	032910C-1	959109
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	03/29/10 20:25	032910C-1	959109
7439-92-1	Lead	1.43	ug/L	J	0.5	2	2	1	MS	BCD1	04/12/10 05:18	100411-2	959112
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	03/29/10 20:25	032910C-1	959109
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	BCD1	04/12/10 05:18	100411-2	959112
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	03/02/10 12:29	030210W3-6	958969
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-09-7	Potassium	150	ug/L	U	50	150	150	1	P	HSC	03/29/10 20:25	032910C-1	959109
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-23-5	Sodium	115	ug/L	J	100	300	300	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	BCD1	04/12/10 05:18	100411-2	959112
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	PRB	04/13/10 16:37	100413-5	959112
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	03/29/10 20:25	032910C-1	959109
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	03/29/10 20:25	032910C-1	959109

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
959109	959108	SW846 3005A	50	mL	50	mL	03/04/10	FGA
959112	959110	SW846 3005A	50	mL	50	mL	03/04/10	FGA

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2122-1

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	5140	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	29-MAR-10 18:35	032910C-1
	Arsenic	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	29-MAR-10 18:35	032910C-1
	Barium	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	29-MAR-10 18:35	032910C-1
	Calcium	5000	ug/L	5000	ug/L	100	90.0 – 110.0	P	29-MAR-10 18:35	032910C-1
	Chromium	488	ug/L	500	ug/L	97.6	90.0 – 110.0	P	29-MAR-10 18:35	032910C-1
	Cobalt	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	29-MAR-10 18:35	032910C-1
	Copper	510	ug/L	500	ug/L	102	90.0 – 110.0	P	29-MAR-10 18:35	032910C-1
	Iron	5010	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	29-MAR-10 18:35	032910C-1
	Magnesium	5200	ug/L	5000	ug/L	103.9	90.0 – 110.0	P	29-MAR-10 18:35	032910C-1
	Nickel	495	ug/L	500	ug/L	99	90.0 – 110.0	P	29-MAR-10 18:35	032910C-1
	Potassium	2470	ug/L	2500	ug/L	98.7	90.0 – 110.0	P	29-MAR-10 18:35	032910C-1
	Selenium	2470	ug/L	2500	ug/L	98.8	90.0 – 110.0	P	29-MAR-10 18:35	032910C-1
	Silver	257	ug/L	250	ug/L	102.8	90.0 – 110.0	P	29-MAR-10 18:35	032910C-1
	Sodium	2460	ug/L	2500	ug/L	98.5	90.0 – 110.0	P	29-MAR-10 18:35	032910C-1
	Vanadium	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	29-MAR-10 18:35	032910C-1
	Zinc	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	29-MAR-10 18:35	032910C-1
	Beryllium	51.8	ug/L	50	ug/L	103.6	90.0 – 110.0	MS	12-APR-10 03:01	100411-2
	Cadmium	51.2	ug/L	50	ug/L	102.5	90.0 – 110.0	MS	12-APR-10 03:01	100411-2
	Lead	51.3	ug/L	50	ug/L	102.6	90.0 – 110.0	MS	12-APR-10 03:01	100411-2
	Manganese	53.3	ug/L	50	ug/L	106.6	90.0 – 110.0	MS	12-APR-10 03:01	100411-2
	Thallium	50	ug/L	50	ug/L	99.9	90.0 – 110.0	MS	12-APR-10 03:01	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	101.7	90.0 – 110.0	P	29-MAR-10 18:49	032910C-1
	Arsenic	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	29-MAR-10 18:49	032910C-1
	Barium	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	29-MAR-10 18:49	032910C-1
	Calcium	4990	ug/L	5000	ug/L	99.8	90.0 – 110.0	P	29-MAR-10 18:49	032910C-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2122-1

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	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	29-MAR-10 18:49	032910C-1
	Cobalt	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	29-MAR-10 18:49	032910C-1
	Copper	496	ug/L	500	ug/L	99.3	90.0 – 110.0	P	29-MAR-10 18:49	032910C-1
	Iron	4940	ug/L	5000	ug/L	98.8	90.0 – 110.0	P	29-MAR-10 18:49	032910C-1
	Magnesium	5080	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	29-MAR-10 18:49	032910C-1
	Nickel	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	29-MAR-10 18:49	032910C-1
	Potassium	5440	ug/L	5000	ug/L	108.7	90.0 – 110.0	P	29-MAR-10 18:49	032910C-1
	Selenium	488	ug/L	500	ug/L	97.6	90.0 – 110.0	P	29-MAR-10 18:49	032910C-1
	Silver	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	29-MAR-10 18:49	032910C-1
	Sodium	10000	ug/L	10000	ug/L	100	90.0 – 110.0	P	29-MAR-10 18:49	032910C-1
	Vanadium	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	29-MAR-10 18:49	032910C-1
	Zinc	488	ug/L	500	ug/L	97.7	90.0 – 110.0	P	29-MAR-10 18:49	032910C-1
	Beryllium	49	ug/L	50	ug/L	98	90.0 – 110.0	MS	12-APR-10 03:32	100411-2
	Cadmium	50.8	ug/L	50	ug/L	101.7	90.0 – 110.0	MS	12-APR-10 03:32	100411-2
	Lead	51.3	ug/L	50	ug/L	102.7	90.0 – 110.0	MS	12-APR-10 03:32	100411-2
	Manganese	52.9	ug/L	50	ug/L	105.8	90.0 – 110.0	MS	12-APR-10 03:32	100411-2
	Thallium	50.3	ug/L	50	ug/L	100.6	90.0 – 110.0	MS	12-APR-10 03:32	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	5100	ug/L	5000	ug/L	102	90.0 – 110.0	P	29-MAR-10 18:57	032910C-1
	Arsenic	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	29-MAR-10 18:57	032910C-1
	Barium	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	29-MAR-10 18:57	032910C-1
	Calcium	4970	ug/L	5000	ug/L	99.4	90.0 – 110.0	P	29-MAR-10 18:57	032910C-1
	Chromium	492	ug/L	500	ug/L	98.5	90.0 – 110.0	P	29-MAR-10 18:57	032910C-1
	Cobalt	490	ug/L	500	ug/L	98	90.0 – 110.0	P	29-MAR-10 18:57	032910C-1
	Copper	495	ug/L	500	ug/L	99	90.0 – 110.0	P	29-MAR-10 18:57	032910C-1
	Iron	4920	ug/L	5000	ug/L	98.4	90.0 – 110.0	P	29-MAR-10 18:57	032910C-1
	Magnesium	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	29-MAR-10 18:57	032910C-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-2122-1

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	491	ug/L	500	ug/L	98.3	90.0 - 110.0	P	29-MAR-10 18:57	032910C-1
	Potassium	4890	ug/L	5000	ug/L	97.8	90.0 - 110.0	P	29-MAR-10 18:57	032910C-1
	Selenium	483	ug/L	500	ug/L	96.6	90.0 - 110.0	P	29-MAR-10 18:57	032910C-1
	Silver	498	ug/L	500	ug/L	99.6	90.0 - 110.0	P	29-MAR-10 18:57	032910C-1
	Sodium	9880	ug/L	10000	ug/L	98.8	90.0 - 110.0	P	29-MAR-10 18:57	032910C-1
	Vanadium	500	ug/L	500	ug/L	100	90.0 - 110.0	P	29-MAR-10 18:57	032910C-1
	Zinc	484	ug/L	500	ug/L	96.8	90.0 - 110.0	P	29-MAR-10 18:57	032910C-1
	Beryllium	49.9	ug/L	50	ug/L	99.9	90.0 - 110.0	MS	12-APR-10 03:51	100411-2
	Cadmium	52.1	ug/L	50	ug/L	104.2	90.0 - 110.0	MS	12-APR-10 03:51	100411-2
	Lead	52.4	ug/L	50	ug/L	104.8	90.0 - 110.0	MS	12-APR-10 03:51	100411-2
	Manganese	53.6	ug/L	50	ug/L	107.2	90.0 - 110.0	MS	12-APR-10 03:51	100411-2
	Thallium	50.8	ug/L	50	ug/L	101.7	90.0 - 110.0	MS	12-APR-10 03:51	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
	Aluminum	5160	ug/L	5000	ug/L	103.3	90.0 - 110.0	P	29-MAR-10 19:31	032910C-1
	Arsenic	515	ug/L	500	ug/L	103	90.0 - 110.0	P	29-MAR-10 19:31	032910C-1
	Barium	498	ug/L	500	ug/L	99.6	90.0 - 110.0	P	29-MAR-10 19:31	032910C-1
	Calcium	4960	ug/L	5000	ug/L	99.2	90.0 - 110.0	P	29-MAR-10 19:31	032910C-1
	Chromium	488	ug/L	500	ug/L	97.7	90.0 - 110.0	P	29-MAR-10 19:31	032910C-1
	Cobalt	487	ug/L	500	ug/L	97.5	90.0 - 110.0	P	29-MAR-10 19:31	032910C-1
	Copper	493	ug/L	500	ug/L	98.6	90.0 - 110.0	P	29-MAR-10 19:31	032910C-1
	Iron	4930	ug/L	5000	ug/L	98.5	90.0 - 110.0	P	29-MAR-10 19:31	032910C-1
	Magnesium	5060	ug/L	5000	ug/L	101.2	90.0 - 110.0	P	29-MAR-10 19:31	032910C-1
	Nickel	490	ug/L	500	ug/L	98.1	90.0 - 110.0	P	29-MAR-10 19:31	032910C-1
	Potassium	4830	ug/L	5000	ug/L	96.6	90.0 - 110.0	P	29-MAR-10 19:31	032910C-1
	Selenium	476	ug/L	500	ug/L	95.2	90.0 - 110.0	P	29-MAR-10 19:31	032910C-1
	Silver	496	ug/L	500	ug/L	99.2	90.0 - 110.0	P	29-MAR-10 19:31	032910C-1
	Sodium	9860	ug/L	10000	ug/L	98.6	90.0 - 110.0	P	29-MAR-10 19:31	032910C-1

SW846

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2122-1

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>
	Vanadium	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	29-MAR-10 19:31	032910C-1
	Zinc	480	ug/L	500	ug/L	96.1	90.0 – 110.0	P	29-MAR-10 19:31	032910C-1
	Beryllium	49.2	ug/L	50	ug/L	98.4	90.0 – 110.0	MS	12-APR-10 05:05	100411-2
	Cadmium	50.4	ug/L	50	ug/L	100.8	90.0 – 110.0	MS	12-APR-10 05:05	100411-2
	Lead	50.7	ug/L	50	ug/L	101.4	90.0 – 110.0	MS	12-APR-10 05:05	100411-2
	Manganese	51.8	ug/L	50	ug/L	103.6	90.0 – 110.0	MS	12-APR-10 05:05	100411-2
	Thallium	48	ug/L	50	ug/L	96	90.0 – 110.0	MS	12-APR-10 05:05	100411-2
	Antimony	52.3	ug/L	50	ug/L	104.6	90.0 – 110.0	MS	13-APR-10 12:53	100413-3
	Uranium	48.8	ug/L	50	ug/L	97.6	90.0 – 110.0	MS	13-APR-10 15:59	100413-5
CCV04	Mercury	5.02	ug/L	5	ug/L	100.3	80.0 – 120.0	AV	02-MAR-10 09:54	030210W3-6
	Aluminum	5160	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	29-MAR-10 19:52	032910C-1
	Arsenic	520	ug/L	500	ug/L	104.1	90.0 – 110.0	P	29-MAR-10 19:52	032910C-1
	Barium	498	ug/L	500	ug/L	99.5	90.0 – 110.0	P	29-MAR-10 19:52	032910C-1
	Calcium	4950	ug/L	5000	ug/L	98.9	90.0 – 110.0	P	29-MAR-10 19:52	032910C-1
	Chromium	488	ug/L	500	ug/L	97.6	90.0 – 110.0	P	29-MAR-10 19:52	032910C-1
	Cobalt	486	ug/L	500	ug/L	97.1	90.0 – 110.0	P	29-MAR-10 19:52	032910C-1
	Copper	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	29-MAR-10 19:52	032910C-1
	Iron	4910	ug/L	5000	ug/L	98.3	90.0 – 110.0	P	29-MAR-10 19:52	032910C-1
	Magnesium	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	29-MAR-10 19:52	032910C-1
	Nickel	487	ug/L	500	ug/L	97.5	90.0 – 110.0	P	29-MAR-10 19:52	032910C-1
	Potassium	4830	ug/L	5000	ug/L	96.7	90.0 – 110.0	P	29-MAR-10 19:52	032910C-1
	Selenium	476	ug/L	500	ug/L	95.2	90.0 – 110.0	P	29-MAR-10 19:52	032910C-1
	Silver	495	ug/L	500	ug/L	99.1	90.0 – 110.0	P	29-MAR-10 19:52	032910C-1
	Sodium	9860	ug/L	10000	ug/L	98.6	90.0 – 110.0	P	29-MAR-10 19:52	032910C-1
	Vanadium	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	29-MAR-10 19:52	032910C-1
	Zinc	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	29-MAR-10 19:52	032910C-1
	Beryllium	50.9	ug/L	50	ug/L	101.8	90.0 – 110.0	MS	12-APR-10 05:42	100411-2
	Cadmium	50	ug/L	50	ug/L	100	90.0 – 110.0	MS	12-APR-10 05:42	100411-2
	Lead	50.4	ug/L	50	ug/L	100.8	90.0 – 110.0	MS	12-APR-10 05:42	100411-2

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-2122-1

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>
	Manganese	52	ug/L	50	ug/L	104.1	90.0 – 110.0	MS	12-APR-10 05:42	100411-2
	Thallium	48.2	ug/L	50	ug/L	96.5	90.0 – 110.0	MS	12-APR-10 05:42	100411-2
	Antimony	51.4	ug/L	50	ug/L	102.7	90.0 – 110.0	MS	13-APR-10 13:21	100413-3
	Uranium	50.4	ug/L	50	ug/L	100.8	90.0 – 110.0	MS	13-APR-10 16:14	100413-5
CCV05										
	Mercury	5	ug/L	5	ug/L	99.9	80.0 – 120.0	AV	02-MAR-10 10:17	030210W3-6
	Aluminum	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	29-MAR-10 20:14	032910C-1
	Arsenic	532	ug/L	500	ug/L	106.5	90.0 – 110.0	P	29-MAR-10 20:14	032910C-1
	Barium	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	29-MAR-10 20:14	032910C-1
	Calcium	4930	ug/L	5000	ug/L	98.6	90.0 – 110.0	P	29-MAR-10 20:14	032910C-1
	Chromium	492	ug/L	500	ug/L	98.3	90.0 – 110.0	P	29-MAR-10 20:14	032910C-1
	Cobalt	489	ug/L	500	ug/L	97.8	90.0 – 110.0	P	29-MAR-10 20:14	032910C-1
	Copper	495	ug/L	500	ug/L	99	90.0 – 110.0	P	29-MAR-10 20:14	032910C-1
	Iron	4900	ug/L	5000	ug/L	98	90.0 – 110.0	P	29-MAR-10 20:14	032910C-1
	Magnesium	5040	ug/L	5000	ug/L	100.7	90.0 – 110.0	P	29-MAR-10 20:14	032910C-1
	Nickel	490	ug/L	500	ug/L	98.1	90.0 – 110.0	P	29-MAR-10 20:14	032910C-1
	Potassium	4780	ug/L	5000	ug/L	95.7	90.0 – 110.0	P	29-MAR-10 20:14	032910C-1
	Selenium	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	29-MAR-10 20:14	032910C-1
	Silver	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	29-MAR-10 20:14	032910C-1
	Sodium	9800	ug/L	10000	ug/L	98	90.0 – 110.0	P	29-MAR-10 20:14	032910C-1
	Vanadium	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	29-MAR-10 20:14	032910C-1
	Zinc	482	ug/L	500	ug/L	96.5	90.0 – 110.0	P	29-MAR-10 20:14	032910C-1
	Antimony	52.7	ug/L	50	ug/L	105.4	90.0 – 110.0	MS	13-APR-10 13:36	100413-3
	Uranium	49.5	ug/L	50	ug/L	98.9	90.0 – 110.0	MS	13-APR-10 16:29	100413-5
CCV06										
	Mercury	5.06	ug/L	5	ug/L	101.2	80.0 – 120.0	AV	02-MAR-10 10:41	030210W3-6
	Aluminum	5180	ug/L	5000	ug/L	103.7	90.0 – 110.0	P	29-MAR-10 20:39	032910C-1
	Arsenic	533	ug/L	500	ug/L	106.7	90.0 – 110.0	P	29-MAR-10 20:39	032910C-1
	Barium	500	ug/L	500	ug/L	100	90.0 – 110.0	P	29-MAR-10 20:39	032910C-1
	Calcium	4890	ug/L	5000	ug/L	97.8	90.0 – 110.0	P	29-MAR-10 20:39	032910C-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2122-1

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	488	ug/L	500	ug/L	97.6	90.0 – 110.0	P	29-MAR-10 20:39	032910C-1
	Cobalt	485	ug/L	500	ug/L	97.1	90.0 – 110.0	P	29-MAR-10 20:39	032910C-1
	Copper	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	29-MAR-10 20:39	032910C-1
	Iron	4870	ug/L	5000	ug/L	97.5	90.0 – 110.0	P	29-MAR-10 20:39	032910C-1
	Magnesium	5020	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	29-MAR-10 20:39	032910C-1
	Nickel	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	29-MAR-10 20:39	032910C-1
	Potassium	4730	ug/L	5000	ug/L	94.6	90.0 – 110.0	P	29-MAR-10 20:39	032910C-1
	Selenium	471	ug/L	500	ug/L	94.2	90.0 – 110.0	P	29-MAR-10 20:39	032910C-1
	Silver	495	ug/L	500	ug/L	98.9	90.0 – 110.0	P	29-MAR-10 20:39	032910C-1
	Sodium	9760	ug/L	10000	ug/L	97.6	90.0 – 110.0	P	29-MAR-10 20:39	032910C-1
	Vanadium	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	29-MAR-10 20:39	032910C-1
	Zinc	478	ug/L	500	ug/L	95.7	90.0 – 110.0	P	29-MAR-10 20:39	032910C-1
	Antimony	52.1	ug/L	50	ug/L	104.2	90.0 – 110.0	MS	13-APR-10 13:59	100413-3
	Uranium	48.8	ug/L	50	ug/L	97.6	90.0 – 110.0	MS	13-APR-10 16:44	100413-5
CCV07										
	Mercury	5.01	ug/L	5	ug/L	100.3	80.0 – 120.0	AV	02-MAR-10 11:04	030210W3-6
	Antimony	51	ug/L	50	ug/L	102.1	90.0 – 110.0	MS	13-APR-10 14:21	100413-3
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: 10-2122-1

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	2.32	ug/L	2	ug/L	115.8	70.0 – 130.0	MS	12-APR-10 03:14	100411-2
	Manganese	6.18	ug/L	5	ug/L	123.5	70.0 – 130.0	MS	12-APR-10 03:14	100411-2
	Thallium	1.14	ug/L	1	ug/L	114.3	70.0 – 130.0	MS	12-APR-10 03:14	100411-2
	Cadmium	1.19	ug/L	1	ug/L	119	70.0 – 130.0	MS	12-APR-10 03:14	100411-2
	Beryllium	.545	ug/L	.5	ug/L	109	70.0 – 130.0	MS	12-APR-10 03:14	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										
	Silver	4.62	ug/L	5	ug/L	92.4	70.0 – 130.0	P	29-MAR-10 18:40	032910C-1
	Sodium	260	ug/L	300	ug/L	86.8	70.0 – 130.0	P	29-MAR-10 18:40	032910C-1
	Arsenic	29.8	ug/L	30	ug/L	99.4	70.0 – 130.0	P	29-MAR-10 18:40	032910C-1
	Barium	5.16	ug/L	5	ug/L	103.1	70.0 – 130.0	P	29-MAR-10 18:40	032910C-1
	Potassium	170	ug/L	150	ug/L	113.4	70.0 – 130.0	P	29-MAR-10 18:40	032910C-1
	Nickel	5.03	ug/L	5	ug/L	100.7	70.0 – 130.0	P	29-MAR-10 18:40	032910C-1
	Magnesium	303	ug/L	300	ug/L	101.1	70.0 – 130.0	P	29-MAR-10 18:40	032910C-1
	Iron	103	ug/L	100	ug/L	103.4	70.0 – 130.0	P	29-MAR-10 18:40	032910C-1
	Aluminum	201	ug/L	200	ug/L	100.4	70.0 – 130.0	P	29-MAR-10 18:40	032910C-1
	Chromium	4.84	ug/L	5	ug/L	96.8	70.0 – 130.0	P	29-MAR-10 18:40	032910C-1
	Cobalt	5.14	ug/L	5	ug/L	102.7	70.0 – 130.0	P	29-MAR-10 18:40	032910C-1
	Copper	10.1	ug/L	10	ug/L	101.4	70.0 – 130.0	P	29-MAR-10 18:40	032910C-1
	Vanadium	4.53	ug/L	5	ug/L	90.6	70.0 – 130.0	P	29-MAR-10 18:40	032910C-1
	Zinc	9.92	ug/L	10	ug/L	99.2	70.0 – 130.0	P	29-MAR-10 18:40	032910C-1
	Calcium	204	ug/L	200	ug/L	101.8	70.0 – 130.0	P	29-MAR-10 18:40	032910C-1
	Selenium	29.5	ug/L	30	ug/L	98.3	70.0 – 130.0	P	29-MAR-10 18:40	032910C-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122-1

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	0.066	+/-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	29-MAR-10 18:37	032910C-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-MAR-10 18:37	032910C-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 18:37	032910C-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-MAR-10 18:37	032910C-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 18:37	032910C-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 18:37	032910C-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-MAR-10 18:37	032910C-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-MAR-10 18:37	032910C-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-MAR-10 18:37	032910C-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-MAR-10 18:37	032910C-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-MAR-10 18:37	032910C-1
	Selenium	5.57	+/-30	J	5.0	30.0	LIQ	P	29-MAR-10 18:37	032910C-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 18:37	032910C-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-MAR-10 18:37	032910C-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 18:37	032910C-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-MAR-10 18:37	032910C-1
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	12-APR-10 03:08	100411-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	12-APR-10 03:08	100411-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	12-APR-10 03:08	100411-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	12-APR-10 03:08	100411-2
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	12-APR-10 03:08	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	29-MAR-10 18:51	032910C-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-MAR-10 18:51	032910C-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 18:51	032910C-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-MAR-10 18:51	032910C-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 18:51	032910C-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122-1

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>
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 18:51	032910C-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-MAR-10 18:51	032910C-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-MAR-10 18:51	032910C-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-MAR-10 18:51	032910C-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-MAR-10 18:51	032910C-1
	Potassium	152.39	+/-150		50.0	150	LIQ	P	29-MAR-10 18:51	032910C-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-MAR-10 18:51	032910C-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 18:51	032910C-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-MAR-10 18:51	032910C-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 18:51	032910C-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-MAR-10 18:51	032910C-1
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	12-APR-10 03:38	100411-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	12-APR-10 03:38	100411-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	12-APR-10 03:38	100411-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	12-APR-10 03:38	100411-2
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	12-APR-10 03:38	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	29-MAR-10 18:59	032910C-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-MAR-10 18:59	032910C-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 18:59	032910C-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-MAR-10 18:59	032910C-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 18:59	032910C-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 18:59	032910C-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-MAR-10 18:59	032910C-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-MAR-10 18:59	032910C-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-MAR-10 18:59	032910C-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-MAR-10 18:59	032910C-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-MAR-10 18:59	032910C-1

SW846

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122-1

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>
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-MAR-10 18:59	032910C-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 18:59	032910C-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-MAR-10 18:59	032910C-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 18:59	032910C-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-MAR-10 18:59	032910C-1
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	12-APR-10 03:57	100411-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	12-APR-10 03:57	100411-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	12-APR-10 03:57	100411-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	12-APR-10 03:57	100411-2
	Thallium	0.597	+/-1	J	0.3	1.0	LIQ	MS	12-APR-10 03:57	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
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-MAR-10 19:33	032910C-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-MAR-10 19:33	032910C-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 19:33	032910C-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-MAR-10 19:33	032910C-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 19:33	032910C-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 19:33	032910C-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-MAR-10 19:33	032910C-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-MAR-10 19:33	032910C-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-MAR-10 19:33	032910C-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-MAR-10 19:33	032910C-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-MAR-10 19:33	032910C-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-MAR-10 19:33	032910C-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 19:33	032910C-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-MAR-10 19:33	032910C-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 19:33	032910C-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-MAR-10 19:33	032910C-1
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	12-APR-10 05:11	100411-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122-1

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	0.11	+/-1	U	0.11	1.0	LIQ	MS	12-APR-10 05:11	100411-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	12-APR-10 05:11	100411-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	12-APR-10 05:11	100411-2
	Thallium	0.37	+/-1	J	0.3	1.0	LIQ	MS	12-APR-10 05:11	100411-2
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	13-APR-10 12:56	100413-3
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	13-APR-10 16:00	100413-5
CCB04	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 09:56	030210W3-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-MAR-10 19:54	032910C-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-MAR-10 19:54	032910C-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 19:54	032910C-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-MAR-10 19:54	032910C-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 19:54	032910C-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 19:54	032910C-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-MAR-10 19:54	032910C-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-MAR-10 19:54	032910C-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-MAR-10 19:54	032910C-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-MAR-10 19:54	032910C-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-MAR-10 19:54	032910C-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-MAR-10 19:54	032910C-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 19:54	032910C-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-MAR-10 19:54	032910C-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 19:54	032910C-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-MAR-10 19:54	032910C-1
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	12-APR-10 05:49	100411-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	12-APR-10 05:49	100411-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	12-APR-10 05:49	100411-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	12-APR-10 05:49	100411-2
	Thallium	1.12	+/-1		0.3	1.0	LIQ	MS	12-APR-10 05:49	100411-2
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	13-APR-10 13:24	100413-3
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	13-APR-10 16:15	100413-5

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122-1

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>
CCB05	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 10:19	030210W3-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-MAR-10 20:16	032910C-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-MAR-10 20:16	032910C-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 20:16	032910C-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-MAR-10 20:16	032910C-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 20:16	032910C-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 20:16	032910C-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-MAR-10 20:16	032910C-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-MAR-10 20:16	032910C-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-MAR-10 20:16	032910C-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-MAR-10 20:16	032910C-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-MAR-10 20:16	032910C-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-MAR-10 20:16	032910C-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 20:16	032910C-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-MAR-10 20:16	032910C-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 20:16	032910C-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-MAR-10 20:16	032910C-1
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	13-APR-10 13:39	100413-3
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	13-APR-10 16:30	100413-5
CCB06	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 10:42	030210W3-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-MAR-10 20:41	032910C-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-MAR-10 20:41	032910C-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 20:41	032910C-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-MAR-10 20:41	032910C-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 20:41	032910C-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 20:41	032910C-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-MAR-10 20:41	032910C-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-MAR-10 20:41	032910C-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-MAR-10 20:41	032910C-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-MAR-10 20:41	032910C-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2122-1

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>
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-MAR-10 20:41	032910C-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-MAR-10 20:41	032910C-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-MAR-10 20:41	032910C-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-MAR-10 20:41	032910C-1
	Vanadium	-1.05	+/-5	J	1.0	5.0	LIQ	P	29-MAR-10 20:41	032910C-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-MAR-10 20:41	032910C-1
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	13-APR-10 14:01	100413-3
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	13-APR-10 16:45	100413-5
CCB07	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 11:06	030210W3-6
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	13-APR-10 14:23	100413-3
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
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. 10-2122-1

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
1202056866	Aluminum	68	ug/L	+/-200	U	P	68	200
	Arsenic	5	ug/L	+/-30	U	P	5	30
	Barium	1	ug/L	+/-5	U	P	1	5
	Calcium	50	ug/L	+/-200	U	P	50	200
	Chromium	1	ug/L	+/-5	U	P	1	5
	Cobalt	1	ug/L	+/-5	U	P	1	5
	Copper	3	ug/L	+/-10	U	P	3	10
	Iron	30	ug/L	+/-100	U	P	30	100
	Magnesium	85	ug/L	+/-300	U	P	85	300
	Nickel	1.5	ug/L	+/-5	U	P	1.5	5
	Potassium	50	ug/L	+/-150	U	P	50	150
	Selenium	5	ug/L	+/-30	U	P	5	30
	Silver	1	ug/L	+/-5	U	P	1	5
	Sodium	100	ug/L	+/-300	U	P	100	300
	Vanadium	1	ug/L	+/-5	U	P	1	5
	Zinc	3.3	ug/L	+/-10	U	P	3.3	10
1202056872	Antimony	1	ug/L	+/-3	U	MS	1	3
	Beryllium	0.1	ug/L	+/-0.5	U	MS	0.1	0.5
	Cadmium	0.11	ug/L	+/-1	U	MS	0.11	1
	Lead	1.11	ug/L	+/-2	J	MS	0.5	2
	Manganese	1	ug/L	+/-5	U	MS	1	5
	Thallium	0.338	ug/L	+/-1	J	MS	0.3	1
	Uranium	0.05	ug/L	+/-0.2	U	MS	0.05	0.2

METALS

-4-

Interference Check Sample

SDG No: 10-2122-1

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	511000	ug/L	500000	ug/L	102	80.0 – 120.0	29-MAR-10 18:43	032910C-1
	Arsenic	4.51	ug/L					29-MAR-10 18:43	032910C-1
	Barium	0.49	ug/L					29-MAR-10 18:43	032910C-1
	Calcium	479000	ug/L	500000	ug/L	95.7	80.0 – 120.0	29-MAR-10 18:43	032910C-1
	Chromium	1.9	ug/L					29-MAR-10 18:43	032910C-1
	Cobalt	-6.27	ug/L					29-MAR-10 18:43	032910C-1
	Copper	-2.45	ug/L					29-MAR-10 18:43	032910C-1
	Iron	189000	ug/L	200000	ug/L	94.6	80.0 – 120.0	29-MAR-10 18:43	032910C-1
	Magnesium	481000	ug/L	500000	ug/L	96.2	80.0 – 120.0	29-MAR-10 18:43	032910C-1
	Nickel	2.89	ug/L					29-MAR-10 18:43	032910C-1
	Potassium	-157.0	ug/L					29-MAR-10 18:43	032910C-1
	Selenium	-3.7	ug/L					29-MAR-10 18:43	032910C-1
	Silver	0.683	ug/L					29-MAR-10 18:43	032910C-1
	Sodium	12.5	ug/L					29-MAR-10 18:43	032910C-1
	Vanadium	1.57	ug/L					29-MAR-10 18:43	032910C-1
	Zinc	7.6	ug/L					29-MAR-10 18:43	032910C-1
ICSAB01									
	Aluminum	520000	ug/L	500000	ug/L	104	80.0 – 120.0	29-MAR-10 18:45	032910C-1
	Arsenic	526	ug/L	500	ug/L	105	80.0 – 120.0	29-MAR-10 18:45	032910C-1
	Barium	500	ug/L	500	ug/L	100	80.0 – 120.0	29-MAR-10 18:45	032910C-1
	Calcium	487000	ug/L	500000	ug/L	97.4	80.0 – 120.0	29-MAR-10 18:45	032910C-1
	Chromium	485	ug/L	500	ug/L	96.9	80.0 – 120.0	29-MAR-10 18:45	032910C-1
	Cobalt	437	ug/L	500	ug/L	87.5	80.0 – 120.0	29-MAR-10 18:45	032910C-1
	Copper	537	ug/L	500	ug/L	107	80.0 – 120.0	29-MAR-10 18:45	032910C-1
	Iron	191000	ug/L	200000	ug/L	95.3	80.0 – 120.0	29-MAR-10 18:45	032910C-1
	Magnesium	483000	ug/L	500000	ug/L	96.6	80.0 – 120.0	29-MAR-10 18:45	032910C-1
	Nickel	451	ug/L	500	ug/L	90.1	80.0 – 120.0	29-MAR-10 18:45	032910C-1
	Potassium	5450	ug/L	5000	ug/L	109	80.0 – 120.0	29-MAR-10 18:45	032910C-1
	Selenium	2360	ug/L	2500	ug/L	94.4	80.0 – 120.0	29-MAR-10 18:45	032910C-1

METALS
-4-
Interference Check Sample

SDG No: 10-2122-1

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>
	Silver	271	ug/L	250	ug/L	108	80.0 – 120.0	29-MAR-10 18:45	032910C-1
	Sodium	5320	ug/L	5000	ug/L	106	80.0 – 120.0	29-MAR-10 18:45	032910C-1
	Vanadium	517	ug/L	500	ug/L	103	80.0 – 120.0	29-MAR-10 18:45	032910C-1
	Zinc	484	ug/L	500	ug/L	96.8	80.0 – 120.0	29-MAR-10 18:45	032910C-1

METALS

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Interference Check Sample

SDG No: 10-2122-1

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	0.135	ug/L					12-APR-10 03:20	100411-2
	Cadmium	0.235	ug/L					12-APR-10 03:20	100411-2
	Lead	0.207	ug/L					12-APR-10 03:20	100411-2
	Manganese	5.81	ug/L					12-APR-10 03:20	100411-2
	Thallium	-0.037	ug/L					12-APR-10 03:20	100411-2
ICSAB01									
	Beryllium	17.9	ug/L	20	ug/L	89.5	80.0 - 120.0	12-APR-10 03:26	100411-2
	Cadmium	19.0	ug/L	20.44	ug/L	92.7	80.0 - 120.0	12-APR-10 03:26	100411-2
	Lead	18.5	ug/L	20.19	ug/L	91.7	80.0 - 120.0	12-APR-10 03:26	100411-2
	Manganese	25.4	ug/L	25.8	ug/L	98.4	80.0 - 120.0	12-APR-10 03:26	100411-2
	Thallium	17.7	ug/L	20	ug/L	88.5	80.0 - 120.0	12-APR-10 03:26	100411-2

METALS
-4-
Interference Check Sample

SDG No: 10-2122-1

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	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: 10-2122-1

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	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. 10-2122-1 **Client ID** RE46-10-13544S**Contract:** LANL01004 **Level:** Low**Matrix:** WATER **% Solids:****Sample ID:** 248257001 **Spike ID:** 1202056611

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75-125	2.31		0.066	U	2	114		AV

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2122-1 Client ID RE36-10-7529S

Contract: LANL01004 Level: Low

Matrix: WATER % Solids:

Sample ID: 248199001 Spike ID: 1202056869

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75-125	5190		68	U	5000	104		P
Arsenic	ug/L	75-125	535		5	U	500	107		P
Barium	ug/L	75-125	502		1	U	500	100		P
Calcium	ug/L	75-125	4930		50	U	5000	97.8		P
Chromium	ug/L	75-125	486		1	U	500	97.1		P
Cobalt	ug/L	75-125	474		1	U	500	94.8		P
Copper	ug/L	75-125	496		3	U	500	99		P
Iron	ug/L	75-125	4880		30	U	5000	97.1		P
Magnesium	ug/L	75-125	5060		85	U	5000	101		P
Nickel	ug/L	75-125	487		1.5	U	500	97.4		P
Potassium	ug/L	75-125	4860		50	U	5000	96.2		P
Selenium	ug/L	75-125	461		5	U	500	92.2		P
Silver	ug/L	75-125	476		1	U	500	95.1		P
Sodium	ug/L	75-125	5030		115	J	5000	98.3		P
Vanadium	ug/L	75-125	497		1	U	500	99.4		P
Zinc	ug/L	75-125	467		3.3	U	500	93.1		P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2122-1 Client ID RE36-10-7529S

Contract: LANL01004 Level: Low

Matrix: WATER % Solids:

Sample ID: 248199001 Spike ID: 1202056875

<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	206		1	U	200	103		MS
Beryllium	ug/L	75-125	48.6		0.1	U	50	97.2		MS
Cadmium	ug/L	75-125	9.94		0.11	U	10	99.4		MS
Lead	ug/L	75-125	41.5		1.43	J	40	100		MS
Manganese	ug/L	75-125	51.9		1	U	50	103		MS
Thallium	ug/L	75-125	84.4		0.3	U	100	84.1		MS
Uranium	ug/L	75-125	45.2		0.05	U	50	90.4		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2122-1

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.: 10-2122-1

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE36-10-7529D

Sample ID: 248199001

Duplicate ID: 1202056868

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	+/-300	115 J		105 J		9.86		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.: 10-2122-1

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE36-10-7529D

Sample ID: 248199001

Duplicate ID: 1202056874

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	+/-2	1.43 J		0.631 J		77.4		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. 10-2122-1

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. 10-2122-1

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>
1202056867								
	Aluminum	ug/L	5000	5200		104	80-120	P
	Arsenic	ug/L	500	539		108	80-120	P
	Barium	ug/L	500	509		102	80-120	P
	Calcium	ug/L	5000	4960		99.1	80-120	P
	Chromium	ug/L	500	492		98.3	80-120	P
	Cobalt	ug/L	500	481		96.2	80-120	P
	Copper	ug/L	500	502		100	80-120	P
	Iron	ug/L	5000	4920		98.3	80-120	P
	Nickel	ug/L	500	496		99.2	80-120	P
	Potassium	ug/L	5000	4810		96.2	80-120	P
	Selenium	ug/L	500	475		95	80-120	P
	Silver	ug/L	500	482		96.5	80-120	P
	Sodium	ug/L	5000	4930		98.6	80-120	P
	Vanadium	ug/L	500	504		101	80-120	P
	Zinc	ug/L	500	477		95.3	80-120	P
	Magnesium	ug/L	5000	5110		102	80-120	P

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-2122-1

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>
1202056873								
	Antimony	ug/L	50	55.1		110	80-120	MS
	Beryllium	ug/L	50	48.6		97.1	80-120	MS
	Cadmium	ug/L	50	48.2		96.4	80-120	MS
	Lead	ug/L	50	52.2		104	80-120	MS
	Manganese	ug/L	50	53.8		108	80-120	MS
	Thallium	ug/L	50	47.8		95.6	80-120	MS
	Uranium	ug/L	50	44.9		89.7	80-120	MS

METALS

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Serial Dilution Sample Summary

SDG NO. 10-2122-1 Client ID RE46-10-13544L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 248257001 Serial Dilution ID: 1202056612

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Mercury	.066	U	.33	U				AV

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-2122-1 Client ID RE36-10-7529L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 248199001 Serial Dilution ID: 1202056870

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	115	J	500	U	100			P
Vanadium	1	U	5	U				P
Zinc	3.3	U	16.5	U				P

METALS

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Serial Dilution Sample Summary

SDG NO. 10-2122-1 **Client ID** RE36-10-7529L**Contract:** LANL01004**Matrix:** LIQUID **Level:** Low**Sample ID:** 248199001 **Serial Dilution ID:** 1202056876

Analyte	<u>Initial Value ug/L</u>	<u>C</u>	<u>Serial Value ug/L</u>	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Antimony	1	U	5	U				MS
Beryllium	.1	U	.5	U				MS
Cadmium	.11	U	.55	U				MS
Lead	1.43	J	2.5	U	100			MS
Manganese	1	U	5	U				MS
Thallium	.3	U	13.4					MS
Uranium	.05	U	.25	U				MS

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2122-1

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	959108						
1202056866	MB for batch 959108	MB	W	04-MAR-10	50mL	50mL	
1202056867	LCS for batch 959108	LCS	W	04-MAR-10	50mL	50mL	
1202056869	RE36-10-7529S	MS	W	04-MAR-10	50mL	50mL	
1202056868	RE36-10-7529D	DUP	W	04-MAR-10	50mL	50mL	
248199001	RE36-10-7529	SAMPLE	W	04-MAR-10	50mL	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2122-1

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	959110						
1202056872	MB for batch 959110	MB	W	04-MAR-10	50mL	50mL	
1202056873	LCS for batch 959110	LCS	W	04-MAR-10	50mL	50mL	
1202056875	RE36-10-7529S	MS	W	04-MAR-10	50mL	50mL	
1202056874	RE36-10-7529D	DUP	W	04-MAR-10	50mL	50mL	
248199001	RE36-10-7529	SAMPLE	W	04-MAR-10	50mL	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2122-1

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	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	
248199001	RE36-10-7529	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

End Date: 13-APR-10

Client Sdg: 10-2122-1

Method: MS

Data File: 100413-3

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	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																							
ZZZZZZ	1	12:09:00																								
ZZZZZZ	1	12:12:00																								
ZZZZZZ	1	12:14:00																								
ZZZZZZ	1	12:16:00																								
ZZZZZZ	1	12:19:00																								
ZZZZZZ	1	12:21:00																								
ZZZZZZ	1	12:24:00																								
ZZZZZZ	5	12:26:00																								
ZZZZZZ	1	12:29:00																								
CCV02	1	12:31:00	X																							
CCB02	1	12:34:00	X																							
ZZZZZZ	1	12:36:00																								
ZZZZZZ	1	12:39:00																								
ZZZZZZ	1	12:41:00																								
ZZZZZZ	1	12:44:00																								
ZZZZZZ	1	12:46:00																								
ZZZZZZ	1	12:48:00																								
ZZZZZZ	1	12:51:00																								
CCV03	1	12:53:00	X																							
CCB03	1	12:56:00	X																							
ZZZZZZ	1	12:58:00																								
ZZZZZZ	1	13:01:00																								
ZZZZZZ	1	13:03:00																								
ZZZZZZ	1	13:06:00																								
ZZZZZZ	1	13:08:00																								
ZZZZZZ	1	13:11:00																								
ZZZZZZ	5	13:13:00																								
ZZZZZZ	1	13:19:00																								
CCV04	1	13:21:00	X																							
CCB04	1	13:24:00	X																							

Metals
-14-
Analysis Run Log

[illegible]

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: 10-2122-1

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	Ti	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		
ZZZZZZ	1	15:29:00																								
ZZZZZZ	1	15:31:00																								
ZZZZZZ	1	15:32:00																								
ZZZZZZ	1	15:34:00																								
ZZZZZZ	1	15:35:00																								
ZZZZZZ	1	15:37:00																								
ZZZZZZ	1	15:39:00																								
ZZZZZZ	5	15:40:00																								
ZZZZZZ	1	15:42:00																								
CCV02	1	15:44:00																						X		
CCB02	1	15:45:00																						X		
ZZZZZZ	1	15:47:00																								
ZZZZZZ	1	15:49:00																								
ZZZZZZ	1	15:50:00																								
ZZZZZZ	1	15:52:00																								
ZZZZZZ	1	15:54:00																								
ZZZZZZ	1	15:55:00																								
ZZZZZZ	1	15:57:00																								
CCV03	1	15:59:00																						X		
CCB03	1	16:00:00																						X		
ZZZZZZ	1	16:02:00																								
ZZZZZZ	1	16:04:00																								
ZZZZZZ	1	16:05:00																								
ZZZZZZ	1	16:07:00																								
ZZZZZZ	1	16:09:00																								
ZZZZZZ	1	16:10:00																								
ZZZZZZ	5	16:12:00																								
CCV04	1	16:14:00																						X		
CCB04	1	16:15:00																						X		
1202056872	1	16:17:00																						X		

[illegible]

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: HG3

Start Date: 02-MAR-10

End Date: 02-MAR-10

Client Sdg: 10-2122-1

Method: AV

Data File: 030210W3-6

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	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																								

SW846

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
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																								

Samp No.	D/F	Run Time
ZZZZZZ	1	12:19:00
ZZZZZZ	1	12:21:00
ZZZZZZ	1	12:23:00
ZZZZZZ	1	12:25:00
ZZZZZZ	1	12:27:00
248199001	1	12:29:00
ZZZZZZ	1	12:31:00
ZZZZZZ	1	12:33:00
ZZZZZZ	1	12:35:00
CCV11	1	12:37:00
CCB11	1	12:39:00
ZZZZZZ	1	12:41:00
ZZZZZZ	1	12:43:00
1202056610	1	12:45:00
1202056611	1	12:47:00
1202056612	5	12:49:00
ZZZZZZ	1	12:51:00
ZZZZZZ	1	12:53:00
ZZZZZZ	1	12:55:00
ZZZZZZ	1	12:56:00
ZZZZZZ	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: 29-MAR-10

End Date: 29-MAR-10

Client Sdg: 10-2122-1

Method: P

Data File: 032910C-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	18:25:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
S0.1	1	18:28:00			X	X				X	X	X						X	X	X	X				X	X
S0.5	1	18:30:00	X		X	X			X	X	X	X			X			X	X	X	X				X	X
SCAL	1	18:32:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
S10	1	18:34:00	X						X				X		X							X				
ICV01	1	18:35:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICB01	1	18:37:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
PQL01	1	18:40:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICSA01	1	18:43:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICSAB01	1	18:45:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR01	1	18:46:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR02	1	18:48:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCV01	1	18:49:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB01	1	18:51:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCV02	1	18:57:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB02	1	18:59:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	19:17:00																								
ZZZZZZ	1	19:20:00																								
ZZZZZZ	1	19:21:00																								
ZZZZZZ	1	19:23:00																								
ZZZZZZ	1	19:25:00																								
ZZZZZZ	1	19:26:00																								
ZZZZZZ	5	19:29:00																								
CCV03	1	19:31:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB03	1	19:33:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	19:36:00																								
ZZZZZZ	1	19:38:00																								
ZZZZZZ	1	19:40:00																								
ZZZZZZ	1	19:42:00																								
ZZZZZZ	1	19:44:00																								
ZZZZZZ	1	19:46:00																								
ZZZZZZ	1	19:48:00																								
ZZZZZZ	1	19:50:00																								
CCV04	1	19:52:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB04	1	19:54:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	19:57:00																								
ZZZZZZ	1	19:59:00																								
ZZZZZZ	1	20:02:00																								
ZZZZZZ	1	20:04:00																								
ZZZZZZ	1	20:06:00																								

Metals
-14-
Analysis Run Log

[illegible]

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: 10-2122-1

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	02:43:00					X	X					X	X									X			
S10	1	02:49:00					X	X					X	X									X			
S100	1	02:55:00					X	X					X	X									X			
ICV01	1	03:01:00					X	X					X	X									X			
ICB01	1	03:08:00					X	X					X	X									X			
CRDL01	1	03:14:00					X	X					X	X									X			
ICSA01	1	03:20:00					X	X					X	X									X			
ICSAB01	1	03:26:00					X	X					X	X									X			
CCV01	1	03:32:00					X	X					X	X									X			
CCB01	1	03:38:00					X	X					X	X									X			
LR01	1	03:44:00					X	X					X	X									X			
CCV02	1	03:51:00					X	X					X	X									X			
CCB02	1	03:57:00					X	X					X	X									X			
1202056872	1	04:03:00					X	X					X	X									X			
1202056873	1	04:09:00					X	X					X	X									X			
ZZZZZZ	1	04:15:00																								
ZZZZZZ	1	04:22:00																								
ZZZZZZ	1	04:28:00																								
ZZZZZZ	1	04:34:00																								
ZZZZZZ	1	04:40:00																								
ZZZZZZ	1	04:46:00																								
ZZZZZZ	1	04:53:00																								
ZZZZZZ	1	04:59:00																								
CCV03	1	05:05:00					X	X					X	X									X			
CCB03	1	05:11:00					X	X					X	X									X			
248199001	1	05:18:00					X	X					X	X									X			
1202056874	1	05:24:00					X	X					X	X									X			
1202056875	1	05:30:00					X	X					X	X									X			
1202056876	5	05:36:00					X	X					X	X									X			
CCV04	1	05:42:00					X	X					X	X									X			
CCB04	1	05:49:00					X	X					X	X									X			

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2122-1

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>
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. 10-2122-1

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. 10-2122-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
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: GEL

GEL Job No: 10-2122-1

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: 22-MAR-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Aluminum	Antimony	Arsenic	Barium	Beryllium
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00676	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: **10-2122-1**

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: **22-MAR-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Boron	Cadmium	Chromium	Cobalt	Copper
Parmname	Wavelength					
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: 10-2122-1

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
Tballium	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: **10-2122-1**

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: 10-2122-1

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: 22-MAR-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Strontium	Sulfur	Thallium	Tin	Titanium
Parmname	Wavelength					
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: 10-2122-1

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. 10-2122-1

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>
Aluminum	1	50000	ug/L	01-FEB-10
Antimony	1000	250	ug/L	01-FEB-10
Arsenic	1000	1000	ug/L	01-FEB-10
Barium	1000	1000	ug/L	01-FEB-10
Beryllium	1000	1000	ug/L	01-FEB-10
Cadmium	1000	1000	ug/L	01-FEB-10
Calcium	500	50000	ug/L	01-FEB-10
Chromium	1000	1000	ug/L	01-FEB-10
Cobalt	1000	1000	ug/L	01-FEB-10
Copper	1000	1000	ug/L	01-FEB-10
Iron	500	50000	ug/L	01-FEB-10
Lead	1000	5000	ug/L	01-FEB-10
Magnesium	1	50000	ug/L	01-FEB-10
Manganese	1000	1000	ug/L	01-FEB-10
Nickel	1000	1000	ug/L	01-FEB-10
Potassium	1	50000	ug/L	01-FEB-10
Selenium	1000	500	ug/L	01-FEB-10
Silver	1000	250	ug/L	01-FEB-10
Sodium	1	50000	ug/L	01-FEB-10
Thallium	1000	500	ug/L	01-FEB-10
Uranium	1000	5000	ug/L	01-FEB-10
Vanadium	1000	100	ug/L	01-FEB-10
Zinc	1000	2500	ug/L	01-FEB-10

METALS
-12-
Linear Ranges

SDG NO. 10-2122-1

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>
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
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

METALS
-12-
Linear Ranges

SDG NO. 10-2122-1

Contract: LANL01004

Lab Code: GEL

Instrument IDICPMS4

<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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Reprocessing Begun

Logged In Analyst: optima4

Technique: ICP Continuous

Results Data Set (original): 032910B

Results Library (original): C:\pe\optima4\Results\Results.mdb

Results Data Set (reprocessed): 032910C

Results Library (reprocessed): C:\pe\optima4\Results\Results.mdb

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Method Loaded

Method Name: Gen Eng fast_new Si

Method Last Saved: 3/29/2010 19:12:39

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: 8

Sample ID: S0

Date Collected: 3/29/2010 18:25:17

Analyst:

Data Type: Reprocessed on 3/29/2010 19:14:31

Logged In Analyst (Original) : optima4

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc 361.383	1675486.4	1675486.4	100.16 %	18:27:09
1	Sc RADIAL	146509.4	146509.4	101 %	18:25:47
1	Y 371.029	1022720.1	1022720.1	100.01 %	18:27:09
1	Ag 328.068†	2983.2	2978.4	[0.00] µg/L	18:27:11
1	Al 396.153Radial†	-35.1	-35.0	[0.00] µg/L	18:26:07
1	As 188.979†	-19.2	-19.2	[0.00] µg/L	18:27:31

1	B 249.677†	3447.9	3442.3	[0.00]	µg/L	18:27:11
1	Ba 233.527†	-170.9	-170.6	[0.00]	µg/L	18:27:31
1	Be 313.107†	-760.2	-759.0	[0.00]	µg/L	18:27:11
1	Ca 317.933Radial†	609.6	606.5	[0.00]	µg/L	18:26:07
1	Cd 226.502†	-94.3	-94.2	[0.00]	µg/L	18:27:31
1	Co 228.616†	-177.2	-176.9	[0.00]	µg/L	18:27:31
1	Cr 267.716†	191.1	190.8	[0.00]	µg/L	18:27:31
1	Cu 324.752†	2447.0	2443.1	[0.00]	µg/L	18:27:11
1	Fe 238.204 Radial†	120.7	120.1	[0.00]	µg/L	18:26:07
1	K 766.490 Radial†	1409.9	1402.7	[0.00]	µg/L	18:25:47
1	Mg 279.077 IEC†	182.4	181.4	[0.00]	µg/L	18:26:07
1	Mn 257.610†	83.5	83.4	[0.00]	µg/L	18:27:31
1	Mo 202.031†	-61.5	-61.4	[0.00]	µg/L	18:27:31
1	Na 589.592 Radial†	1727.7	1718.8	[0.00]	µg/L	18:25:47
1	Ni 231.604†	-12.7	-12.7	[0.00]	µg/L	18:27:31
1	P 214.914†	74.6	74.5	[0.00]	µg/L	18:27:31
1	Pb 220.353†	124.0	123.8	[0.00]	µg/L	18:27:31
1	S 181.975 Axial†	92.2	92.1	[0.00]	µg/L	18:27:31
1	Sb 206.836†	94.8	94.7	[0.00]	µg/L	18:27:31
1	Se 196.026†	10.9	10.9	[0.00]	µg/L	18:27:31
1	SiO2†	1567.1	1564.5	[0.00]	µg/L	18:27:31
1	Si 251.611†	683.3	682.2	[0.00]	µg/L	18:27:11
1	Sn 189.927†	-0.3	-0.3	[0.00]	µg/L	18:27:31
1	Sr 421.552†	-242.7	-241.5	[0.00]	µg/L	18:25:47
1	Ti 334.940†	661.0	659.9	[0.00]	µg/L	18:27:11
1	Tl 190.801†	-125.7	-125.5	[0.00]	µg/L	18:27:31
1	U 409.014†	-452.8	-452.0	[0.00]	µg/L	18:27:11
1	V 292.402†	515.3	514.5	[0.00]	µg/L	18:27:11
1	Zn 213.857†	458.0	457.2	[0.00]	µg/L	18:27:31
2	Sc 361.383	1673882.1	1673882.1	100.07	%	18:27:33
2	Sc RADIAL	143614.2	143614.2	98.5	%	18:26:09
2	Y 371.029	1022767.5	1022767.5	100.02	%	18:27:33
2	Ag 328.068†	3053.8	3051.7	[0.00]	µg/L	18:27:35
2	Al 396.153Radial†	-38.9	-39.5	[0.00]	µg/L	18:26:29
2	As 188.979†	-15.1	-15.1	[0.00]	µg/L	18:27:55
2	B 249.677†	3293.2	3291.1	[0.00]	µg/L	18:27:35
2	Ba 233.527†	-175.9	-175.8	[0.00]	µg/L	18:27:55
2	Be 313.107†	-530.4	-530.1	[0.00]	µg/L	18:27:35
2	Ca 317.933Radial†	602.3	611.3	[0.00]	µg/L	18:26:29
2	Cd 226.502†	-94.9	-94.9	[0.00]	µg/L	18:27:55
2	Co 228.616†	-169.1	-169.0	[0.00]	µg/L	18:27:55
2	Cr 267.716†	157.6	157.5	[0.00]	µg/L	18:27:55
2	Cu 324.752†	2326.2	2324.7	[0.00]	µg/L	18:27:35
2	Fe 238.204 Radial†	112.7	114.4	[0.00]	µg/L	18:26:29
2	K 766.490 Radial†	1475.1	1497.1	[0.00]	µg/L	18:26:09
2	Mg 279.077 IEC†	191.8	194.7	[0.00]	µg/L	18:26:29
2	Mn 257.610†	69.4	69.3	[0.00]	µg/L	18:27:55
2	Mo 202.031†	-55.1	-55.0	[0.00]	µg/L	18:27:55
2	Na 589.592 Radial†	1691.1	1716.3	[0.00]	µg/L	18:26:09
2	Ni 231.604†	-51.5	-51.5	[0.00]	µg/L	18:27:55
2	P 214.914†	99.0	98.9	[0.00]	µg/L	18:27:55
2	Pb 220.353†	108.5	108.4	[0.00]	µg/L	18:27:55
2	S 181.975 Axial†	90.3	90.2	[0.00]	µg/L	18:27:55
2	Sb 206.836†	81.0	81.0	[0.00]	µg/L	18:27:55
2	Se 196.026†	15.5	15.5	[0.00]	µg/L	18:27:55
2	SiO2†	1541.6	1540.6	[0.00]	µg/L	18:27:55
2	Si 251.611†	721.8	721.4	[0.00]	µg/L	18:27:35
2	Sn 189.927†	7.0	7.0	[0.00]	µg/L	18:27:55
2	Sr 421.552†	-264.2	-268.1	[0.00]	µg/L	18:26:09
2	Ti 334.940†	533.5	533.1	[0.00]	µg/L	18:27:35
2	Tl 190.801†	-121.5	-121.4	[0.00]	µg/L	18:27:55
2	U 409.014†	-565.6	-565.2	[0.00]	µg/L	18:27:35
2	V 292.402†	425.8	425.5	[0.00]	µg/L	18:27:35
2	Zn 213.857†	466.7	466.4	[0.00]	µg/L	18:27:55
3	Sc 361.383	1668955.0	1668955.0	99.772	%	18:27:57
3	Sc RADIAL	147139.1	147139.1	101	%	18:26:31
3	Y 371.029	1022257.2	1022257.2	99.968	%	18:27:57
3	Ag 328.068†	2864.4	2871.0	[0.00]	µg/L	18:27:59
3	Al 396.153Radial†	-21.4	-21.2	[0.00]	µg/L	18:26:51
3	As 188.979†	-8.4	-8.4	[0.00]	µg/L	18:28:20
3	B 249.677†	3326.1	3333.7	[0.00]	µg/L	18:27:59

3	Ba 233.527†	-178.4	-178.8	[0.00]	µg/L	18:28:20
3	Be 313.107†	-689.7	-691.3	[0.00]	µg/L	18:27:59
3	Ca 317.933Radial†	636.8	630.8	[0.00]	µg/L	18:26:51
3	Cd 226.502†	-94.0	-94.2	[0.00]	µg/L	18:28:20
3	Co 228.616†	-183.5	-183.9	[0.00]	µg/L	18:28:20
3	Cr 267.716†	132.1	132.4	[0.00]	µg/L	18:28:20
3	Cu 324.752†	2501.2	2506.9	[0.00]	µg/L	18:27:59
3	Fe 238.204 Radial†	106.3	105.3	[0.00]	µg/L	18:26:51
3	K 766.490 Radial†	1479.1	1465.2	[0.00]	µg/L	18:26:31
3	Mg 279.077 IEC†	185.6	183.9	[0.00]	µg/L	18:26:51
3	Mn 257.610†	87.1	87.3	[0.00]	µg/L	18:28:20
3	Mo 202.031†	-49.1	-49.2	[0.00]	µg/L	18:28:20
3	Na 589.592 Radial†	1664.8	1649.1	[0.00]	µg/L	18:26:31
3	Ni 231.604†	-58.4	-58.5	[0.00]	µg/L	18:28:20
3	P 214.914†	65.2	65.3	[0.00]	µg/L	18:28:20
3	Pb 220.353†	104.9	105.1	[0.00]	µg/L	18:28:20
3	S 181.975 Axial†	101.9	102.2	[0.00]	µg/L	18:28:20
3	Sb 206.836†	84.1	84.3	[0.00]	µg/L	18:28:20
3	Se 196.026†	6.3	6.3	[0.00]	µg/L	18:28:20
3	SiO2†	1609.7	1613.4	[0.00]	µg/L	18:28:20
3	Si 251.611†	624.2	625.6	[0.00]	µg/L	18:27:59
3	Sn 189.927†	-0.6	-0.6	[0.00]	µg/L	18:28:20
3	Sr 421.552†	-327.4	-324.4	[0.00]	µg/L	18:26:31
3	Ti 334.940†	714.3	716.0	[0.00]	µg/L	18:27:59
3	Tl 190.801†	-113.7	-113.9	[0.00]	µg/L	18:28:20
3	U 409.014†	-419.1	-420.1	[0.00]	µg/L	18:27:59
3	V 292.402†	354.6	355.5	[0.00]	µg/L	18:27:59
3	Zn 213.857†	468.5	469.6	[0.00]	µg/L	18:28:20

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1672774.5	3403.67	0.20%	100.00 %
Sc RADIAL	145754.2	1879.88	1.29%	100 %
Y 371.029	1022581.6	281.95	0.03%	100.00 %
Ag 328.068†	2967.0	90.92	3.06%	[0.00] µg/L
Al 396.153Radial†	-31.9	9.54	29.92%	[0.00] µg/L
As 188.979†	-14.2	5.41	37.98%	[0.00] µg/L
B 249.677†	3355.7	78.00	2.32%	[0.00] µg/L
Ba 233.527†	-175.1	4.13	2.36%	[0.00] µg/L
Be 313.107†	-660.1	117.60	17.82%	[0.00] µg/L
Ca 317.933Radial†	616.2	12.87	2.09%	[0.00] µg/L
Cd 226.502†	-94.4	0.38	0.41%	[0.00] µg/L
Co 228.616†	-176.6	7.48	4.23%	[0.00] µg/L
Cr 267.716†	160.2	29.32	18.30%	[0.00] µg/L
Cu 324.752†	2424.9	92.45	3.81%	[0.00] µg/L
Fe 238.204 Radial†	113.3	7.45	6.58%	[0.00] µg/L
K 766.490 Radial†	1455.0	48.06	3.30%	[0.00] µg/L
Mg 279.077 IEC†	186.7	7.04	3.77%	[0.00] µg/L
Mn 257.610†	80.0	9.46	11.83%	[0.00] µg/L
Mo 202.031†	-55.2	6.06	10.98%	[0.00] µg/L
Na 589.592 Radial†	1694.7	39.52	2.33%	[0.00] µg/L
Ni 231.604†	-40.9	24.66	60.28%	[0.00] µg/L
P 214.914†	79.6	17.37	21.83%	[0.00] µg/L
Pb 220.353†	112.4	9.96	8.86%	[0.00] µg/L
S 181.975 Axial†	94.8	6.43	6.78%	[0.00] µg/L
Sb 206.836†	86.6	7.13	8.23%	[0.00] µg/L
Se 196.026†	10.9	4.59	42.08%	[0.00] µg/L
SiO2†	1572.9	37.13	2.36%	[0.00] µg/L
Si 251.611†	676.4	48.15	7.12%	[0.00] µg/L
Sn 189.927†	2.0	4.32	214.20%	[0.00] µg/L
Sr 421.552†	-278.0	42.30	15.22%	[0.00] µg/L
Ti 334.940†	636.3	93.67	14.72%	[0.00] µg/L
Tl 190.801†	-120.3	5.87	4.88%	[0.00] µg/L
U 409.014†	-479.1	76.26	15.92%	[0.00] µg/L
V 292.402†	431.8	79.70	18.46%	[0.00] µg/L
Zn 213.857†	464.4	6.40	1.38%	[0.00] µg/L

Sequence No.: 2

Sample ID: S0.1

Analyst:

Logged In Analyst (Original) : optima4

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 3/29/2010 18:28:28

Data Type: Reprocessed on 3/29/2010 19:14:33

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc 361.383	1661946.1	1661946.1	99.353 %		18:29:20
1	Sc RADIAL	142262.8	142262.8	97.6 %		18:28:58
1	Y 371.029	1013636.7	1013636.7	99.125 %		18:29:20
1	Ag 328.068†	28004.5	25219.9	[100] µg/L		18:29:22
1	As 188.979†	214.7	230.4	[100] µg/L		18:29:42
1	B 249.677†	9080.8	5784.2	[100] µg/L		18:29:22
1	Ba 233.527†	21988.9	22307.2	[100] µg/L		18:29:22
1	Be 313.107†	303759.0	306398.2	[100] µg/L		18:29:20
1	Cd 226.502†	14418.1	14606.5	[100] µg/L		18:29:22
1	Co 228.616†	7233.5	7457.2	[100] µg/L		18:29:42
1	Cr 267.716†	11824.2	11741.0	[100] µg/L		18:29:22
1	Cu 324.752†	25515.5	23256.9	[100] µg/L		18:29:22
1	K 766.490 Radial†	3700.4	2336.2	[1000] µg/L		18:28:58
1	Mn 257.610†	75396.6	75807.8	[100] µg/L		18:29:22
1	Mo 202.031†	3080.8	3156.1	[100] µg/L		18:29:42
1	Ni 231.604†	8001.7	8094.7	[100] µg/L		18:29:22
1	P 214.914†	2111.9	2046.0	[500] µg/L		18:29:42
1	Pb 220.353†	1769.2	1668.3	[100] µg/L		18:29:42
1	S 181.975 Axial†	329.8	237.2	[200] µg/L		18:29:42
1	Sb 206.836†	823.1	741.9	[100] µg/L		18:29:42
1	Se 196.026†	270.2	261.0	[100] µg/L		18:29:42
1	SiO2†	11219.8	9720.0	[1069.5] µg/L		18:29:22
1	Si 251.611†	30808.9	30333.3	[500] µg/L		18:29:22
1	Sn 189.927†	1389.8	1396.8	[100] µg/L		18:29:42
1	Sr 421.552†	43261.6	44601.3	[100] µg/L		18:28:58
1	Ti 334.940†	97625.2	97625.0	[100] µg/L		18:29:22
1	Tl 190.801†	629.9	754.3	[100] µg/L		18:29:42
1	U 409.014†	1288.2	1775.7	[100] µg/L		18:29:22
1	V 292.402†	18219.3	17906.2	[100] µg/L		18:29:22
1	Zn 213.857†	16338.0	15980.0	[100] µg/L		18:29:22
2	Sc 361.383	1666549.8	1666549.8	99.628 %		18:29:44
2	Sc RADIAL	146980.5	146980.5	101 %		18:29:00
2	Y 371.029	1017353.0	1017353.0	99.489 %		18:29:44
2	Ag 328.068†	28245.8	25384.2	[100] µg/L		18:29:47
2	As 188.979†	216.8	231.9	[100] µg/L		18:30:07
2	B 249.677†	9095.6	5773.9	[100] µg/L		18:29:47
2	Ba 233.527†	22220.1	22478.2	[100] µg/L		18:29:47
2	Be 313.107†	301592.1	303378.7	[100] µg/L		18:29:44
2	Cd 226.502†	14444.4	14592.7	[100] µg/L		18:29:47
2	Co 228.616†	7194.5	7397.9	[100] µg/L		18:30:07
2	Cr 267.716†	11989.4	11874.0	[100] µg/L		18:29:47
2	Cu 324.752†	25454.5	23124.7	[100] µg/L		18:29:47
2	K 766.490 Radial†	3828.6	2341.7	[1000] µg/L		18:29:00
2	Mn 257.610†	75955.3	76159.0	[100] µg/L		18:29:47
2	Mo 202.031†	3072.9	3139.6	[100] µg/L		18:30:07
2	Ni 231.604†	7945.1	8015.7	[100] µg/L		18:29:47
2	P 214.914†	2095.0	2023.3	[500] µg/L		18:30:07
2	Pb 220.353†	1806.4	1700.7	[100] µg/L		18:30:07
2	S 181.975 Axial†	328.8	235.2	[200] µg/L		18:30:07
2	Sb 206.836†	831.1	747.6	[100] µg/L		18:30:07
2	Se 196.026†	268.7	258.8	[100] µg/L		18:30:07
2	SiO2†	11380.9	9850.6	[1069.5] µg/L		18:29:47
2	Si 251.611†	30908.3	30347.4	[500] µg/L		18:29:47
2	Sn 189.927†	1386.9	1390.0	[100] µg/L		18:30:07
2	Sr 421.552†	43897.3	43809.0	[100] µg/L		18:29:00
2	Ti 334.940†	97949.2	97678.7	[100] µg/L		18:29:47
2	Tl 190.801†	629.9	752.6	[100] µg/L		18:30:07
2	U 409.014†	1127.3	1610.7	[100] µg/L		18:29:47

2	V 292.402†	18287.8	17924.3	[100] µg/L	18:29:47
2	Zn 213.857†	16478.9	16076.1	[100] µg/L	18:29:47
3	Sc 361.383	1678711.7	1678711.7	100.35 %	18:30:09
3	Sc RADIAL	143945.0	143945.0	98.8 %	18:29:02
3	Y 371.029	1024374.9	1024374.9	100.18 %	18:30:09
3	Ag 328.068†	27960.9	24894.9	[100] µg/L	18:30:11
3	As 188.979†	221.3	234.7	[100] µg/L	18:30:31
3	B 249.677†	9088.4	5700.5	[100] µg/L	18:30:11
3	Ba 233.527†	21982.2	22079.5	[100] µg/L	18:30:11
3	Be 313.107†	305374.6	304954.6	[100] µg/L	18:30:09
3	Cd 226.502†	14449.3	14492.6	[100] µg/L	18:30:11
3	Co 228.616†	7225.7	7376.7	[100] µg/L	18:30:31
3	Cr 267.716†	11783.4	11581.4	[100] µg/L	18:30:11
3	Cu 324.752†	25635.6	23120.1	[100] µg/L	18:30:11
3	K 766.490 Radial†	3785.9	2378.5	[1000] µg/L	18:29:02
3	Mn 257.610†	75567.2	75219.9	[100] µg/L	18:30:11
3	Mo 202.031†	3088.5	3132.8	[100] µg/L	18:30:31
3	Ni 231.604†	7999.7	8012.3	[100] µg/L	18:30:11
3	P 214.914†	2091.9	2004.9	[500] µg/L	18:30:31
3	Pb 220.353†	1784.3	1665.6	[100] µg/L	18:30:31
3	S 181.975 Axial†	327.0	231.0	[200] µg/L	18:30:31
3	Sb 206.836†	817.3	727.8	[100] µg/L	18:30:31
3	Se 196.026†	251.7	239.9	[100] µg/L	18:30:31
3	SiO2†	11327.9	9715.0	[1069.5] µg/L	18:30:11
3	Si 251.611†	30819.3	30033.9	[500] µg/L	18:30:11
3	Sn 189.927†	1401.4	1394.4	[100] µg/L	18:30:31
3	Sr 421.552†	43851.5	44680.7	[100] µg/L	18:29:02
3	Ti 334.940†	97740.3	96758.3	[100] µg/L	18:30:11
3	Tl 190.801†	620.5	738.6	[100] µg/L	18:30:31
3	U 409.014†	1269.9	1744.5	[100] µg/L	18:30:11
3	V 292.402†	18059.5	17563.8	[100] µg/L	18:30:11
3	Zn 213.857†	16510.7	15987.9	[100] µg/L	18:30:11

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1669069.2	8662.09	0.52%	99.778 %
Sc RADIAL	144396.1	2390.99	1.66%	99.1 %
Y 371.029	1018454.9	5453.26	0.54%	99.596 %
Ag 328.068†	25166.4	249.02	0.99%	[100] µg/L
As 188.979†	232.3	2.20	0.95%	[100] µg/L
B 249.677†	5752.9	45.63	0.79%	[100] µg/L
Ba 233.527†	22288.3	200.02	0.90%	[100] µg/L
Be 313.107†	304910.5	1510.27	0.50%	[100] µg/L
Cd 226.502†	14563.9	62.13	0.43%	[100] µg/L
Co 228.616†	7410.6	41.70	0.56%	[100] µg/L
Cr 267.716†	11732.1	146.47	1.25%	[100] µg/L
Cu 324.752†	23167.2	77.70	0.34%	[100] µg/L
K 766.490 Radial†	2352.1	22.98	0.98%	[1000] µg/L
Mn 257.610†	75728.9	474.50	0.63%	[100] µg/L
Mo 202.031†	3142.8	11.99	0.38%	[100] µg/L
Ni 231.604†	8040.9	46.63	0.58%	[100] µg/L
P 214.914†	2024.7	20.61	1.02%	[500] µg/L
Pb 220.353†	1678.2	19.56	1.17%	[100] µg/L
S 181.975 Axial†	234.4	3.15	1.34%	[200] µg/L
Sb 206.836†	739.1	10.21	1.38%	[100] µg/L
Se 196.026†	253.2	11.62	4.59%	[100] µg/L
SiO2†	9761.9	76.87	0.79%	[1069.5] µg/L
Si 251.611†	30238.2	177.02	0.59%	[500] µg/L
Sn 189.927†	1393.8	3.45	0.25%	[100] µg/L
Sr 421.552†	44363.6	481.98	1.09%	[100] µg/L
Ti 334.940†	97354.0	516.57	0.53%	[100] µg/L
Tl 190.801†	748.5	8.62	1.15%	[100] µg/L
U 409.014†	1710.3	87.69	5.13%	[100] µg/L
V 292.402†	17798.1	203.14	1.14%	[100] µg/L
Zn 213.857†	16014.7	53.32	0.33%	[100] µg/L

Sequence No.: 3
 Sample ID: S0.5
 Analyst:
 Logged In Analyst (Original) : optima4
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 3/29/2010 18:30:39
 Data Type: Reprocessed on 3/29/2010 19:14:34

Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Analysis Time
1	Sc 361.383	1666330.4	1666330.4	99.615 %	18:31:37
1	Sc RADIAL	146255.9	146255.9	100 %	18:31:10
1	Y 371.029	1010770.4	1010770.4	98.845 %	18:31:37
1	Ag 328.068†	124810.0	122325.6	[500] µg/L	18:31:37
1	Al 396.153Radial†	22730.9	22684.8	[5000] µg/L	18:31:10
1	As 188.979†	1130.3	1148.9	[500] µg/L	18:31:57
1	B 249.677†	32443.2	29213.0	[500] µg/L	18:31:37
1	Ba 233.527†	108021.9	108614.7	[500] µg/L	18:31:37
1	Be 313.107†	1516563.3	1523088.3	[500] µg/L	18:31:37
1	Ca 317.933Radial†	86179.3	85267.4	[5000] µg/L	18:31:10
1	Cd 226.502†	71219.1	71589.0	[500] µg/L	18:31:37
1	Co 228.616†	35394.0	35707.4	[500] µg/L	18:31:57
1	Cr 267.716†	57615.1	57677.6	[500] µg/L	18:31:37
1	Cu 324.752†	116290.7	114315.5	[500] µg/L	18:31:37
1	K 766.490 Radial†	13629.8	12128.1	[5000] µg/L	18:31:10
1	Mg 279.077 IEC†	12468.2	12238.8	[5000] µg/L	18:31:10
1	Mn 257.610†	362696.8	364019.5	[500] µg/L	18:31:37
1	Mo 202.031†	15371.1	15485.8	[500] µg/L	18:31:57
1	Ni 231.604†	38767.1	38957.9	[500] µg/L	18:31:37
1	P 214.914†	10122.4	10082.0	[2500] µg/L	18:31:57
1	Pb 220.353†	8161.6	8080.8	[500] µg/L	18:31:57
1	S 181.975 Axial†	1278.6	1188.7	[1000] µg/L	18:31:57
1	Sb 206.836†	3687.2	3614.8	[500] µg/L	18:31:57
1	Se 196.026†	1225.0	1218.8	[500] µg/L	18:31:57
1	SiO2†	49926.4	48546.6	[5347.5] µg/L	18:31:37
1	Si 251.611†	150511.0	150416.7	[2500] µg/L	18:31:37
1	Sn 189.927†	6828.0	6852.4	[500] µg/L	18:31:57
1	Sr 421.552†	212817.9	212365.9	[500] µg/L	18:31:08
1	Ti 334.940†	484276.9	485513.3	[500] µg/L	18:31:37
1	Tl 190.801†	3503.2	3637.1	[500] µg/L	18:31:57
1	U 409.014†	6910.1	7415.9	[500] µg/L	18:31:37
1	V 292.402†	89155.4	89068.4	[500] µg/L	18:31:37
1	Zn 213.857†	79249.5	79091.5	[500] µg/L	18:31:37
2	Sc 361.383	1656377.5	1656377.5	99.020 %	18:32:00
2	Sc RADIAL	143364.9	143364.9	98.4 %	18:31:14
2	Y 371.029	1005040.5	1005040.5	98.285 %	18:32:00
2	Ag 328.068†	123893.4	122152.8	[500] µg/L	18:32:00
2	Al 396.153Radial†	22411.8	22817.2	[5000] µg/L	18:31:14
2	As 188.979†	1160.9	1186.7	[500] µg/L	18:32:21
2	B 249.677†	32166.0	29128.7	[500] µg/L	18:32:00
2	Ba 233.527†	106821.0	108053.5	[500] µg/L	18:32:00
2	Be 313.107†	1497872.7	1513360.7	[500] µg/L	18:32:00
2	Ca 317.933Radial†	83955.9	84739.0	[5000] µg/L	18:31:14
2	Cd 226.502†	70376.7	71167.8	[500] µg/L	18:32:00
2	Co 228.616†	35865.0	36396.7	[500] µg/L	18:32:21
2	Cr 267.716†	57094.1	57499.1	[500] µg/L	18:32:00
2	Cu 324.752†	115218.7	113934.4	[500] µg/L	18:32:00
2	K 766.490 Radial†	13146.4	11910.5	[5000] µg/L	18:31:14
2	Mg 279.077 IEC†	12081.5	12096.2	[5000] µg/L	18:31:14
2	Mn 257.610†	359096.8	362571.6	[500] µg/L	18:32:00
2	Mo 202.031†	15556.5	15765.7	[500] µg/L	18:32:21
2	Ni 231.604†	38151.2	38569.7	[500] µg/L	18:32:00
2	P 214.914†	10250.6	10272.5	[2500] µg/L	18:32:21
2	Pb 220.353†	8247.6	8216.9	[500] µg/L	18:32:21
2	S 181.975 Axial†	1295.5	1213.5	[1000] µg/L	18:32:21
2	Sb 206.836†	3729.7	3679.9	[500] µg/L	18:32:21
2	Se 196.026†	1259.6	1261.2	[500] µg/L	18:32:21
2	SiO2†	49488.1	48405.1	[5347.5] µg/L	18:32:00

2	Si 251.611†	149066.4	149865.6	[2500] µg/L	18:32:00
2	Sn 189.927†	6928.0	6994.5	[500] µg/L	18:32:21
2	Sr 421.552†	210571.1	214358.5	[500] µg/L	18:31:12
2	Ti 334.940†	480119.5	484236.0	[500] µg/L	18:32:00
2	Tl 190.801†	3520.8	3676.0	[500] µg/L	18:32:21
2	U 409.014†	6871.4	7418.6	[500] µg/L	18:32:00
2	V 292.402†	88228.0	88669.5	[500] µg/L	18:32:00
2	Zn 213.857†	78116.6	78425.5	[500] µg/L	18:32:00
3	Sc 361.383	1678591.9	1678591.9	100.35 %	18:32:24
3	Sc RADIAL	148088.8	148088.8	102 %	18:31:18
3	Y 371.029	1018746.9	1018746.9	99.625 %	18:32:24
3	Ag 328.068†	125886.3	122483.0	[500] µg/L	18:32:24
3	Al 396.153Radial†	22914.6	22585.2	[5000] µg/L	18:31:18
3	As 188.979†	1161.2	1171.4	[500] µg/L	18:32:44
3	B 249.677†	32821.8	29352.3	[500] µg/L	18:32:24
3	Ba 233.527†	108685.7	108484.1	[500] µg/L	18:32:24
3	Be 313.107†	1528160.6	1523524.6	[500] µg/L	18:32:24
3	Ca 317.933Radial†	86630.7	84648.8	[5000] µg/L	18:31:18
3	Cd 226.502†	72351.9	72195.6	[500] µg/L	18:32:24
3	Co 228.616†	36165.4	36216.7	[500] µg/L	18:32:44
3	Cr 267.716†	58224.7	57862.7	[500] µg/L	18:32:24
3	Cu 324.752†	117068.1	114237.5	[500] µg/L	18:32:24
3	K 766.490 Radial†	13544.3	11875.7	[5000] µg/L	18:31:18
3	Mg 279.077 IEC†	12711.0	12323.9	[5000] µg/L	18:31:18
3	Mn 257.610†	365977.4	364629.0	[500] µg/L	18:32:24
3	Mo 202.031†	15658.0	15658.9	[500] µg/L	18:32:44
3	Ni 231.604†	38949.9	38855.9	[500] µg/L	18:32:24
3	P 214.914†	10378.5	10262.9	[2500] µg/L	18:32:44
3	Pb 220.353†	8301.3	8160.1	[500] µg/L	18:32:44
3	S 181.975 Axial†	1298.3	1199.0	[1000] µg/L	18:32:44
3	Sb 206.836†	3757.3	3657.7	[500] µg/L	18:32:44
3	Se 196.026†	1268.4	1253.0	[500] µg/L	18:32:44
3	SiO2†	50453.3	48705.6	[5347.5] µg/L	18:32:24
3	Si 251.611†	151847.8	150645.2	[2500] µg/L	18:32:24
3	Sn 189.927†	6976.6	6950.4	[500] µg/L	18:32:44
3	Sr 421.552†	212729.2	209653.5	[500] µg/L	18:31:16
3	Ti 334.940†	487904.2	485577.0	[500] µg/L	18:32:24
3	Tl 190.801†	3573.5	3681.5	[500] µg/L	18:32:44
3	U 409.014†	7083.7	7538.2	[500] µg/L	18:32:24
3	V 292.402†	89928.1	89184.6	[500] µg/L	18:32:24
3	Zn 213.857†	79862.3	79121.1	[500] µg/L	18:32:24

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sc 361.383	1667099.9	11127.18	0.67%	99.661 %	
Sc RADIAL	145903.2	2381.65	1.63%	100 %	
Y 371.029	1011519.3	6883.81	0.68%	98.918 %	
Ag 328.068†	122320.5	165.15	0.14%	[500] µg/L	
Al 396.153Radial†	22695.7	116.36	0.51%	[5000] µg/L	
As 188.979†	1169.0	19.01	1.63%	[500] µg/L	
B 249.677†	29231.4	112.94	0.39%	[500] µg/L	
Ba 233.527†	108384.1	293.66	0.27%	[500] µg/L	
Be 313.107†	1519991.2	5746.30	0.38%	[500] µg/L	
Ca 317.933Radial†	84885.1	334.21	0.39%	[5000] µg/L	
Cd 226.502†	71650.8	516.66	0.72%	[500] µg/L	
Co 228.616†	36106.9	357.49	0.99%	[500] µg/L	
Cr 267.716†	57679.8	181.81	0.32%	[500] µg/L	
Cu 324.752†	114162.5	201.35	0.18%	[500] µg/L	
K 766.490 Radial†	11971.4	136.75	1.14%	[5000] µg/L	
Mg 279.077 IEC†	12219.6	115.04	0.94%	[5000] µg/L	
Mn 257.610†	363740.0	1056.77	0.29%	[500] µg/L	
Mo 202.031†	15636.8	141.25	0.90%	[500] µg/L	
Ni 231.604†	38794.5	201.22	0.52%	[500] µg/L	
P 214.914†	10205.8	107.31	1.05%	[2500] µg/L	
Pb 220.353†	8152.6	68.35	0.84%	[500] µg/L	
S 181.975 Axial†	1200.4	12.45	1.04%	[1000] µg/L	
Sb 206.836†	3650.8	33.08	0.91%	[500] µg/L	
Se 196.026†	1244.3	22.47	1.81%	[500] µg/L	
SiO2†	48552.4	150.29	0.31%	[5347.5] µg/L	

Si 251.611†	150309.2	400.75	0.27%	[2500] µg/L
Sn 189.927†	6932.4	72.76	1.05%	[500] µg/L
Sr 421.552†	212126.0	2361.66	1.11%	[500] µg/L
Ti 334.940†	485108.8	756.53	0.16%	[500] µg/L
Tl 190.801†	3664.9	24.20	0.66%	[500] µg/L
U 409.014†	7457.6	69.86	0.94%	[500] µg/L
V 292.402†	88974.2	270.15	0.30%	[500] µg/L
Zn 213.857†	78879.4	393.36	0.50%	[500] µg/L

Sequence No.: 4
 Sample ID: SCAL
 Analyst:
 Logged In Analyst (Original) : optima4
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 3/29/2010 18:32:52
 Data Type: Reprocessed on 3/29/2010 19:14:34

Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Analysis Time
1	Sc 361.383	1695274.3	1695274.3	101.35 %		18:33:51
1	Sc RADIAL	148093.8	148093.8	102 %		18:33:23
1	Y 371.029	1024428.2	1024428.2	100.18 %		18:33:51
1	Ag 328.068†	253437.3	247106.6	[1000] µg/L		18:33:51
1	Al 396.153Radial†	47074.8	46363.0	[10000] µg/L		18:33:23
1	As 188.979†	2423.7	2405.8	[1000] µg/L		18:33:53
1	B 249.677†	64171.5	59964.1	[1000] µg/L		18:33:51
1	Ba 233.527†	222696.0	219915.4	[1000] µg/L		18:33:51
1	Be 313.107†	3125497.2	3084675.4	[1000] µg/L		18:33:51
1	Ca 317.933Radial†	175989.6	172593.1	[10000] µg/L		18:33:23
1	Cd 226.502†	147319.9	145459.1	[1000] µg/L		18:33:51
1	Co 228.616†	73285.4	72489.3	[1000] µg/L		18:33:53
1	Cr 267.716†	118453.3	116720.9	[1000] µg/L		18:33:51
1	Cu 324.752†	236158.0	230598.8	[1000] µg/L		18:33:51
1	Fe 238.204 Radial†	153305.8	150770.6	[10000] µg/L		18:33:23
1	K 766.490 Radial†	26333.7	24462.7	[10000] µg/L		18:33:23
1	Mg 279.077 IEC†	25539.7	24949.5	[10000] µg/L		18:33:23
1	Mn 257.610†	742700.4	732763.2	[1000] µg/L		18:33:51
1	Mo 202.031†	31916.7	31548.3	[1000] µg/L		18:33:53
1	Na 589.592 Radial†	67840.0	65073.6	[10000] µg/L		18:33:23
1	Ni 231.604†	79543.1	78528.3	[1000] µg/L		18:33:51
1	P 214.914†	21051.1	20692.1	[5000] µg/L		18:33:53
1	Pb 220.353†	16751.4	16416.6	[1000] µg/L		18:33:53
1	S 181.975 Axial†	2600.1	2470.7	[2000] µg/L		18:33:53
1	Sb 206.836†	7615.0	7427.3	[1000] µg/L		18:33:53
1	Se 196.026†	2517.5	2473.2	[1000] µg/L		18:33:53
1	SiO2†	101024.7	98111.1	[10695] µg/L		18:33:51
1	Si 251.611†	307939.1	303175.7	[5000] µg/L		18:33:51
1	Sn 189.927†	14211.0	14020.4	[1000] µg/L		18:33:53
1	Sr 421.552†	434456.1	427870.5	[1000] µg/L		18:33:21
1	Ti 334.940†	997481.3	983606.3	[1000] µg/L		18:33:51
1	Tl 190.801†	7335.9	7358.9	[1000] µg/L		18:33:53
1	U 409.014†	16212.4	16476.3	[1000] µg/L		18:33:51
1	V 292.402†	183867.8	180995.7	[1000] µg/L		18:33:51
1	Zn 213.857†	161925.8	159312.2	[1000] µg/L		18:33:51
2	Sc 361.383	1690996.4	1690996.4	101.09 %		18:33:57
2	Sc RADIAL	145999.7	145999.7	100 %		18:33:27
2	Y 371.029	1021922.1	1021922.1	99.936 %		18:33:57
2	Ag 328.068†	252044.6	246361.5	[1000] µg/L		18:33:57
2	Al 396.153Radial†	46624.8	46578.3	[10000] µg/L		18:33:27
2	As 188.979†	2403.1	2391.4	[1000] µg/L		18:33:59
2	B 249.677†	63843.6	59800.0	[1000] µg/L		18:33:57
2	Ba 233.527†	221227.7	219018.9	[1000] µg/L		18:33:57
2	Be 313.107†	3107291.9	3074468.3	[1000] µg/L		18:33:57
2	Ca 317.933Radial†	173656.9	172748.8	[10000] µg/L		18:33:27
2	Cd 226.502†	146575.4	145090.3	[1000] µg/L		18:33:57
2	Co 228.616†	74805.8	74176.3	[1000] µg/L		18:33:59
2	Cr 267.716†	118015.5	116583.5	[1000] µg/L		18:33:57
2	Cu 324.752†	235118.6	230160.1	[1000] µg/L		18:33:57
2	Fe 238.204 Radial†	151211.1	150843.6	[10000] µg/L		18:33:27
2	K 766.490 Radial†	25931.4	24432.8	[10000] µg/L		18:33:27
2	Mg 279.077 IEC†	24969.0	24740.4	[10000] µg/L		18:33:27
2	Mn 257.610†	740445.3	732386.4	[1000] µg/L		18:33:57
2	Mo 202.031†	32495.1	32200.2	[1000] µg/L		18:33:59
2	Na 589.592 Radial†	67249.4	65441.6	[10000] µg/L		18:33:27
2	Ni 231.604†	79100.3	78288.9	[1000] µg/L		18:33:57
2	P 214.914†	21690.5	21377.2	[5000] µg/L		18:33:59
2	Pb 220.353†	17172.9	16875.4	[1000] µg/L		18:33:59

2	S 181.975 Axial†	2679.6	2555.9	[2000]	µg/L	18:33:59
2	Sb 206.836†	7635.7	7466.8	[1000]	µg/L	18:33:59
2	Se 196.026†	2666.5	2626.9	[1000]	µg/L	18:33:59
2	SiO2†	100664.8	98007.2	[10695]	µg/L	18:33:57
2	Si 251.611†	306502.8	302523.6	[5000]	µg/L	18:33:57
2	Sn 189.927†	14443.7	14286.0	[1000]	µg/L	18:33:59
2	Sr 421.552†	430963.7	430517.1	[1000]	µg/L	18:33:25
2	Ti 334.940†	993955.9	982608.8	[1000]	µg/L	18:33:57
2	Tl 190.801†	7531.3	7570.4	[1000]	µg/L	18:33:59
2	U 409.014†	16040.6	16346.9	[1000]	µg/L	18:33:57
2	V 292.402†	183235.5	180829.1	[1000]	µg/L	18:33:57
2	Zn 213.857†	161264.5	159062.3	[1000]	µg/L	18:33:57
3	Sc 361.383	1679595.4	1679595.4	100.41	%	18:34:04
3	Sc RADIAL	149693.3	149693.3	103	%	18:33:31
3	Y 371.029	1015550.9	1015550.9	99.312	%	18:34:04
3	Ag 328.068†	251016.5	247030.1	[1000]	µg/L	18:34:04
3	Al 396.153Radial†	47551.4	46332.0	[10000]	µg/L	18:33:31
3	As 188.979†	2421.2	2425.6	[1000]	µg/L	18:34:06
3	B 249.677†	63426.3	59813.0	[1000]	µg/L	18:34:04
3	Ba 233.527†	219963.3	219245.0	[1000]	µg/L	18:34:04
3	Be 313.107†	3093622.9	3081719.7	[1000]	µg/L	18:34:04
3	Ca 317.933Radial†	178184.0	172879.1	[10000]	µg/L	18:33:31
3	Cd 226.502†	145509.3	145012.8	[1000]	µg/L	18:34:04
3	Co 228.616†	73160.7	73040.2	[1000]	µg/L	18:34:06
3	Cr 267.716†	117369.2	116732.4	[1000]	µg/L	18:34:04
3	Cu 324.752†	233979.9	230604.8	[1000]	µg/L	18:34:04
3	Fe 238.204 Radial†	154947.1	150756.5	[10000]	µg/L	18:33:31
3	K 766.490 Radial†	26410.5	24260.6	[10000]	µg/L	18:33:31
3	Mg 279.077 IEC†	25740.2	24876.2	[10000]	µg/L	18:33:31
3	Mn 257.610†	735902.7	732834.1	[1000]	µg/L	18:34:04
3	Mo 202.031†	31675.9	31602.5	[1000]	µg/L	18:34:06
3	Na 589.592 Radial†	68591.3	65091.7	[10000]	µg/L	18:33:31
3	Ni 231.604†	78372.8	78095.4	[1000]	µg/L	18:34:04
3	P 214.914†	21100.1	20934.8	[5000]	µg/L	18:34:06
3	Pb 220.353†	16565.8	16386.1	[1000]	µg/L	18:34:06
3	S 181.975 Axial†	2538.8	2433.7	[2000]	µg/L	18:34:06
3	Sb 206.836†	7547.1	7429.8	[1000]	µg/L	18:34:06
3	Se 196.026†	2534.8	2513.6	[1000]	µg/L	18:34:06
3	SiO2†	99973.5	97994.7	[10695]	µg/L	18:34:04
3	Si 251.611†	304718.9	302805.0	[5000]	µg/L	18:34:04
3	Sn 189.927†	14107.2	14047.9	[1000]	µg/L	18:34:06
3	Sr 421.552†	434068.2	422924.1	[1000]	µg/L	18:33:29
3	Ti 334.940†	988596.9	983945.8	[1000]	µg/L	18:34:04
3	Tl 190.801†	7419.8	7510.0	[1000]	µg/L	18:34:06
3	U 409.014†	16237.0	16650.2	[1000]	µg/L	18:34:04
3	V 292.402†	181988.8	180817.9	[1000]	µg/L	18:34:04
3	Zn 213.857†	160057.9	158943.5	[1000]	µg/L	18:34:04

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1688622.0	8104.65	0.48%	100.95	%
Sc RADIAL	147928.9	1852.30	1.25%	101	%
Y 371.029	1020633.7	4576.76	0.45%	99.810	%
Ag 328.068†	246832.7	409.85	0.17%	[1000]	µg/L
Al 396.153Radial†	46424.4	134.12	0.29%	[10000]	µg/L
As 188.979†	2407.6	17.16	0.71%	[1000]	µg/L
B 249.677†	59859.0	91.23	0.15%	[1000]	µg/L
Ba 233.527†	219393.1	466.22	0.21%	[1000]	µg/L
Be 313.107†	3080287.8	5252.04	0.17%	[1000]	µg/L
Ca 317.933Radial†	172740.3	143.17	0.08%	[10000]	µg/L
Cd 226.502†	145187.4	238.43	0.16%	[1000]	µg/L
Co 228.616†	73235.3	860.22	1.17%	[1000]	µg/L
Cr 267.716†	116678.9	82.81	0.07%	[1000]	µg/L
Cu 324.752†	230454.6	255.03	0.11%	[1000]	µg/L
Fe 238.204 Radial†	150790.2	46.73	0.03%	[10000]	µg/L
K 766.490 Radial†	24385.4	109.10	0.45%	[10000]	µg/L
Mg 279.077 IEC†	24855.4	106.12	0.43%	[10000]	µg/L
Mn 257.610†	732661.3	240.63	0.03%	[1000]	µg/L
Mo 202.031†	31783.7	361.73	1.14%	[1000]	µg/L

Na 589.592 Radial†	65202.3	207.44	0.32%	[10000]	µg/L
Ni 231.604†	78304.2	216.83	0.28%	[1000]	µg/L
P 214.914†	21001.4	347.34	1.65%	[5000]	µg/L
Pb 220.353†	16559.4	274.11	1.66%	[1000]	µg/L
S 181.975 Axial†	2486.8	62.65	2.52%	[2000]	µg/L
Sb 206.836†	7441.3	22.10	0.30%	[1000]	µg/L
Se 196.026†	2537.9	79.67	3.14%	[1000]	µg/L
SiO2†	98037.6	63.89	0.07%	[10695]	µg/L
Si 251.611†	302834.8	327.07	0.11%	[5000]	µg/L
Sn 189.927†	14118.1	146.08	1.03%	[1000]	µg/L
Sr 421.552†	427103.9	3854.12	0.90%	[1000]	µg/L
Ti 334.940†	983387.0	694.94	0.07%	[1000]	µg/L
Tl 190.801†	7479.8	108.97	1.46%	[1000]	µg/L
U 409.014†	16491.1	152.21	0.92%	[1000]	µg/L
V 292.402†	180880.9	99.54	0.06%	[1000]	µg/L
Zn 213.857†	159106.0	188.24	0.12%	[1000]	µg/L

Sequence No.: 5

Sample ID: S10

Analyst:

Logged In Analyst (Original) : optima4

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 3/29/2010 18:34:14

Data Type: Reprocessed on 3/29/2010 19:14:35

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Analysis Time
1	Sc 361.383	1647889.5	1647889.5	98.512 %		18:35:05
1	Sc RADIAL	147922.0	147922.0	101 %		18:34:43
1	Y 371.029	997984.1	997984.1	97.595 %		18:35:05
1	Al 396.153Radial†	231630.6	228268.0	[50000] µg/L		18:34:43
1	Ca 317.933Radial†	864405.0	851121.2	[50000] µg/L		18:34:43
1	Fe 238.204 Radial†	304562.8	299986.3	[20000] µg/L		18:34:43
1	Mg 279.077 IEC†	122786.4	120800.3	[50000] µg/L		18:34:43
1	Na 589.592 Radial†	134121.8	130461.6	[20000] µg/L		18:34:43
2	Sc 361.383	1646965.2	1646965.2	98.457 %		18:35:08
2	Sc RADIAL	147135.1	147135.1	101 %		18:34:45
2	Y 371.029	998151.2	998151.2	97.611 %		18:35:08
2	Al 396.153Radial†	231070.3	228933.5	[50000] µg/L		18:34:45
2	Ca 317.933Radial†	860622.6	851929.2	[50000] µg/L		18:34:45
2	Fe 238.204 Radial†	303079.0	300121.2	[20000] µg/L		18:34:45
2	Mg 279.077 IEC†	122393.7	121058.3	[50000] µg/L		18:34:45
2	Na 589.592 Radial†	133483.0	130535.5	[20000] µg/L		18:34:45
3	Sc 361.383	1642134.3	1642134.3	98.168 %		18:35:10
3	Sc RADIAL	146873.2	146873.2	101 %		18:34:47
3	Y 371.029	994617.7	994617.7	97.265 %		18:35:10
3	Al 396.153Radial†	231391.3	229660.2	[50000] µg/L		18:34:47
3	Ca 317.933Radial†	862939.8	855749.1	[50000] µg/L		18:34:47
3	Fe 238.204 Radial†	304238.1	301806.9	[20000] µg/L		18:34:47
3	Mg 279.077 IEC†	122676.5	121555.2	[50000] µg/L		18:34:47
3	Na 589.592 Radial†	134070.7	131354.5	[20000] µg/L		18:34:47

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib. Units
Sc 361.383	1645663.0	3090.68	0.19%	98.379 %	
Sc RADIAL	147310.1	545.84	0.37%	101 %	
Y 371.029	996917.7	1993.60	0.20%	97.490 %	
Al 396.153Radial†	228953.9	696.32	0.30%	[50000] µg/L	
Ca 317.933Radial†	852933.2	2471.89	0.29%	[50000] µg/L	
Fe 238.204 Radial†	300638.1	1014.46	0.34%	[20000] µg/L	
Mg 279.077 IEC†	121137.9	383.71	0.32%	[50000] µg/L	
Na 589.592 Radial†	130783.9	495.57	0.38%	[20000] µg/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	246.4	0.00000	0.999992	
Al 396.153Radial	3	Lin Thru 0	0.0	4.581	0.00000	0.999996	
As 188.979	3	Lin Thru 0	0.0	2.393	0.00000	0.999929	
B 249.677	3	Lin Thru 0	0.0	59.56	0.00000	0.999952	
Ba 233.527	3	Lin Thru 0	0.0	218.9	0.00000	0.999987	
Be 313.107	3	Lin Thru 0	0.0	3072	0.00000	0.999986	
Ca 317.933Radial	3	Lin Thru 0	0.0	17.07	0.00000	0.999997	
Cd 226.502	3	Lin Thru 0	0.0	144.8	0.00000	0.999986	
Co 228.616	3	Lin Thru 0	0.0	73.04	0.00000	0.999984	
Cr 267.716	3	Lin Thru 0	0.0	116.4	0.00000	0.999990	
Cu 324.752	3	Lin Thru 0	0.0	230.0	0.00000	0.999993	
Fe 238.204 Radia	2	Lin Thru 0	0.0	15.04	0.00000	0.999999	
K 766.490 Radial	3	Lin Thru 0	0.0	2.429	0.00000	0.999970	
Mg 279.077 IEC	3	Lin Thru 0	0.0	2.425	0.00000	0.999987	
Mn 257.610	3	Lin Thru 0	0.0	731.8	0.00000	0.999991	
Mo 202.031	3	Lin Thru 0	0.0	31.68	0.00000	0.999979	

Na 589.592 Radia	2	Lin Thru 0	0.0	6.535	0.00000	0.999999
Ni 231.604	3	Lin Thru 0	0.0	78.18	0.00000	0.999990
P 214.914	3	Lin Thru 0	0.0	4.176	0.00000	0.999933
Pb 220.353	3	Lin Thru 0	0.0	16.51	0.00000	0.999980
S 181.975 Axial	3	Lin Thru 0	0.0	1.234	0.00000	0.999894
Sb 206.836	3	Lin Thru 0	0.0	7.413	0.00000	0.999972
Se 196.026	3	Lin Thru 0	0.0	2.528	0.00000	0.999970
SiO2	3	Lin Thru 0	0.0	9.149	0.00000	0.999993
Si 251.611	3	Lin Thru 0	0.0	60.48	0.00000	0.999996
Sn 189.927	3	Lin Thru 0	0.0	14.07	0.00000	0.999974
Sr 421.552	3	Lin Thru 0	0.0	426.7	0.00000	0.999990
Ti 334.940	3	Lin Thru 0	0.0	980.7	0.00000	0.999985
Tl 190.801	3	Lin Thru 0	0.0	7.450	0.00000	0.999968
U 409.014	3	Lin Thru 0	0.0	16.18	0.00000	0.999235
V 292.402	3	Lin Thru 0	0.0	180.3	0.00000	0.999978
Zn 213.857	3	Lin Thru 0	0.0	158.8	0.00000	0.999994

Sequence No.: 6

Sample ID: ICV

Analyst:

Logged In Analyst (Original) : optima4

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 3/29/2010 18:35:18

Data Type: Reprocessed on 3/29/2010 19:14:36

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 361.383	1701844.8	1701844.8	101.74 %		18:36:17
1	Sc RADIAL	151216.0	151216.0	104 %		18:35:50
1	Y 371.029	1036585.9	1036585.9	101.37 %		18:36:17
1	Ag 328.068†	65858.6	61766.5	256.87 µg/L	256.87 ppb	18:36:17
1	Al 396.153Radial†	24486.5	23634.0	5134.9 µg/L	5134.9 ppb	18:35:50
1	As 188.979†	1140.6	1135.4	481.67 µg/L	481.67 ppb	18:36:37
1	B 249.677†	34168.2	30228.9	505.75 µg/L	505.75 ppb	18:36:17
1	Ba 233.527†	112714.3	110964.0	507.33 µg/L	507.33 ppb	18:36:17
1	Be 313.107†	798269.6	785294.0	255.76 µg/L	255.76 ppb	18:36:17
1	Ca 317.933Radial†	89164.4	85327.7	4999.8 µg/L	4999.8 ppb	18:35:50
1	Cd 226.502†	72993.3	71840.9	495.79 µg/L	495.79 ppb	18:36:17
1	Co 228.616†	37444.2	36981.2	506.64 µg/L	506.64 ppb	18:36:17
1	Cr 267.716†	57873.1	56724.3	487.10 µg/L	487.10 ppb	18:36:17
1	Cu 324.752†	121386.5	116888.2	509.66 µg/L	509.66 ppb	18:36:17
1	Fe 238.204 Radial†	78431.6	75485.5	5018.5 µg/L	5018.5 ppb	18:35:50
1	K 766.490 Radial†	7725.2	5991.2	2463.6 µg/L	2463.6 ppb	18:35:50
1	Mg 279.077 IEC†	13310.9	12643.4	5221.4 µg/L	5221.4 ppb	18:35:50
1	Mn 257.610†	376288.9	369781.3	505.06 µg/L	505.06 ppb	18:36:17
1	Mo 202.031†	16673.6	16444.0	519.54 µg/L	519.54 ppb	18:36:37
1	Na 589.592 Radial†	18471.5	16109.6	2462.8 µg/L	2462.8 ppb	18:35:50
1	Ni 231.604†	39283.0	38652.9	494.42 µg/L	494.42 ppb	18:36:17
1	P 214.914†	10554.2	10294.3	2456.6 µg/L	2456.6 ppb	18:36:37
1	Pb 220.353†	8472.5	8215.3	499.30 µg/L	499.30 ppb	18:36:37
1	S 181.975 Axial†	3123.6	2975.4	2415.0 µg/L	2415.0 ppb	18:36:37
1	Sb 206.836†	3775.1	3624.0	490.49 µg/L	490.49 ppb	18:36:37
1	Se 196.026†	6364.3	6244.7	2470 µg/L	2470 ppb	18:36:37
1	SiO2†	99568.8	96295.2	10503 µg/L	10503 ppb	18:36:17
1	Si 251.611†	303093.3	297239.6	4904.5 µg/L	4904.5 ppb	18:36:17
1	Sn 189.927†	7432.7	7303.7	520.86 µg/L	520.86 ppb	18:36:37
1	Sr 421.552†	233447.1	225293.2	527.99 µg/L	527.99 ppb	18:35:48
1	Ti 334.940†	482527.6	473648.9	482.33 µg/L	482.33 ppb	18:36:17
1	Tl 190.801†	3799.6	3855.0	524.73 µg/L	524.73 ppb	18:36:37
1	U 409.014†	6773.0	7136.4	471.37 µg/L	471.37 ppb	18:36:17
1	V 292.402†	91625.4	89628.5	503.69 µg/L	503.69 ppb	18:36:17
1	Zn 213.857†	81346.1	79492.2	496.47 µg/L	496.47 ppb	18:36:17
2	Sc 361.383	1701980.9	1701980.9	101.75 %		18:36:40
2	Sc RADIAL	148848.9	148848.9	102 %		18:35:54
2	Y 371.029	1036246.9	1036246.9	101.34 %		18:36:40
2	Ag 328.068†	66063.0	61962.3	257.67 µg/L	257.67 ppb	18:36:40
2	Al 396.153Radial†	24189.6	23718.6	5153.2 µg/L	5153.2 ppb	18:35:54
2	As 188.979†	1141.1	1135.8	481.85 µg/L	481.85 ppb	18:37:00
2	B 249.677†	34342.1	30397.1	508.57 µg/L	508.57 ppb	18:36:40
2	Ba 233.527†	113003.6	111239.5	508.60 µg/L	508.60 ppb	18:36:40
2	Be 313.107†	803326.2	790201.1	257.35 µg/L	257.35 ppb	18:36:40
2	Ca 317.933Radial†	87776.3	85335.2	5000.3 µg/L	5000.3 ppb	18:35:54
2	Cd 226.502†	73305.6	72142.1	497.87 µg/L	497.87 ppb	18:36:40
2	Co 228.616†	37456.8	36990.6	506.77 µg/L	506.77 ppb	18:36:40
2	Cr 267.716†	58033.0	56876.9	488.42 µg/L	488.42 ppb	18:36:40
2	Cu 324.752†	121826.1	117310.6	511.48 µg/L	511.48 ppb	18:36:40
2	Fe 238.204 Radial†	77113.3	75396.8	5012.6 µg/L	5012.6 ppb	18:35:54
2	K 766.490 Radial†	7618.8	6005.4	2469.4 µg/L	2469.4 ppb	18:35:54
2	Mg 279.077 IEC†	12970.7	12514.3	5168.3 µg/L	5168.3 ppb	18:35:54
2	Mn 257.610†	377832.0	371268.3	507.10 µg/L	507.10 ppb	18:36:40
2	Mo 202.031†	16755.0	16522.7	522.02 µg/L	522.02 ppb	18:37:00
2	Na 589.592 Radial†	18069.9	15999.5	2445.9 µg/L	2445.9 ppb	18:35:54
2	Ni 231.604†	39447.3	38811.3	496.44 µg/L	496.44 ppb	18:36:40
2	P 214.914†	10626.3	10364.3	2473.3 µg/L	2473.3 ppb	18:37:00
2	Pb 220.353†	8494.9	8236.7	500.61 µg/L	500.61 ppb	18:37:00

2	S 181.975 Axial†	3125.4	2976.9	2416.3 µg/L	2416.3 ppb	18:37:00
2	Sb 206.836†	3806.5	3654.5	494.63 µg/L	494.63 ppb	18:37:00
2	Se 196.026†	6410.3	6289.4	2490 µg/L	2490 ppb	18:37:00
2	SiO2†	100159.6	96868.0	10565 µg/L	10565 ppb	18:36:40
2	Si 251.611†	304136.0	298240.5	4921.0 µg/L	4921.0 ppb	18:36:40
2	Sn 189.927†	7468.1	7337.9	523.29 µg/L	523.29 ppb	18:37:00
2	Sr 421.552†	233080.0	228512.0	535.53 µg/L	535.53 ppb	18:35:52
2	Ti 334.940†	484116.4	475172.5	483.90 µg/L	483.90 ppb	18:36:40
2	Tl 190.801†	3811.9	3866.8	526.34 µg/L	526.34 ppb	18:37:00
2	U 409.014†	6593.5	6959.4	460.57 µg/L	460.57 ppb	18:36:40
2	V 292.402†	92020.5	90009.6	505.83 µg/L	505.83 ppb	18:36:40
2	Zn 213.857†	81495.2	79632.3	497.34 µg/L	497.34 ppb	18:36:40
3	Sc 361.383	1720635.0	1720635.0	102.86 %		18:37:03
3	Sc RADIAL	149044.6	149044.6	102 %		18:35:58
3	Y 371.029	1046771.8	1046771.8	102.37 %		18:37:03
3	Ag 328.068†	66524.8	61707.3	256.63 µg/L	256.63 ppb	18:37:03
3	Al 396.153Radial†	24064.3	23565.0	5120.0 µg/L	5120.0 ppb	18:35:58
3	As 188.979†	1131.9	1114.6	473.00 µg/L	473.00 ppb	18:37:23
3	B 249.677†	34751.0	30428.7	509.10 µg/L	509.10 ppb	18:37:03
3	Ba 233.527†	114119.3	111120.0	508.05 µg/L	508.05 ppb	18:37:03
3	Be 313.107†	809136.9	787290.3	256.41 µg/L	256.41 ppb	18:37:03
3	Ca 317.933Radial†	87762.2	85208.6	4992.9 µg/L	4992.9 ppb	18:35:58
3	Cd 226.502†	74233.6	72263.2	498.71 µg/L	498.71 ppb	18:37:03
3	Co 228.616†	37810.4	36935.2	506.02 µg/L	506.02 ppb	18:37:03
3	Cr 267.716†	58579.7	56790.0	487.67 µg/L	487.67 ppb	18:37:03
3	Cu 324.752†	122627.9	116792.1	509.24 µg/L	509.24 ppb	18:37:03
3	Fe 238.204 Radial†	77211.6	75393.8	5012.4 µg/L	5012.4 ppb	18:35:58
3	K 766.490 Radial†	7631.8	6008.3	2470.6 µg/L	2470.6 ppb	18:35:58
3	Mg 279.077 IEC†	13062.0	12587.0	5198.1 µg/L	5198.1 ppb	18:35:58
3	Mn 257.610†	380724.0	370053.9	505.44 µg/L	505.44 ppb	18:37:03
3	Mo 202.031†	16767.7	16356.5	516.77 µg/L	516.77 ppb	18:37:23
3	Na 589.592 Radial†	18288.4	16189.9	2475.1 µg/L	2475.1 ppb	18:35:58
3	Ni 231.604†	39680.9	38618.1	493.97 µg/L	493.97 ppb	18:37:03
3	P 214.914†	10598.2	10223.8	2439.7 µg/L	2439.7 ppb	18:37:23
3	Pb 220.353†	8535.0	8185.1	497.46 µg/L	497.46 ppb	18:37:23
3	S 181.975 Axial†	3153.8	2971.2	2411.6 µg/L	2411.6 ppb	18:37:23
3	Sb 206.836†	3795.0	3602.8	487.58 µg/L	487.58 ppb	18:37:23
3	Se 196.026†	6408.5	6219.4	2460 µg/L	2460 ppb	18:37:23
3	SiO2†	100969.8	96588.4	10535 µg/L	10535 ppb	18:37:03
3	Si 251.611†	306927.5	297713.8	4912.4 µg/L	4912.4 ppb	18:37:03
3	Sn 189.927†	7476.5	7266.5	518.21 µg/L	518.21 ppb	18:37:23
3	Sr 421.552†	230245.5	225440.5	528.33 µg/L	528.33 ppb	18:35:56
3	Ti 334.940†	487355.2	473162.7	481.84 µg/L	481.84 ppb	18:37:03
3	Tl 190.801†	3807.3	3821.7	520.26 µg/L	520.26 ppb	18:37:23
3	U 409.014†	6788.8	7079.0	467.87 µg/L	467.87 ppb	18:37:03
3	V 292.402†	92755.7	89743.8	504.30 µg/L	504.30 ppb	18:37:03
3	Zn 213.857†	82290.5	79537.1	496.75 µg/L	496.75 ppb	18:37:03

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1708153.5	102.11 %	0.646			0.63%
Sc RADIAL	149703.2	103 %	0.9			0.88%
Y 371.029	1039868.2	101.69 %	0.585			0.58%
Ag 328.068†	61812.1	257.06 µg/L	0.547	257.06 ppb	0.547	0.21%
QC value within limits for Ag 328.068 Recovery = 102.82%						
Al 396.153Radial†	23639.2	5136.0 µg/L	16.67	5136.0 ppb	16.67	0.32%
QC value within limits for Al 396.153Radial Recovery = 102.72%						
As 188.979†	1128.6	478.84 µg/L	5.057	478.84 ppb	5.057	1.06%
QC value within limits for As 188.979 Recovery = 95.77%						
B 249.677†	30351.6	507.81 µg/L	1.804	507.81 ppb	1.804	0.36%
QC value within limits for B 249.677 Recovery = 101.56%						
Ba 233.527†	111107.9	507.99 µg/L	0.632	507.99 ppb	0.632	0.12%
QC value within limits for Ba 233.527 Recovery = 101.60%						
Be 313.107†	787595.1	256.51 µg/L	0.802	256.51 ppb	0.802	0.31%
QC value within limits for Be 313.107 Recovery = 102.60%						
Ca 317.933Radial†	85290.5	4997.7 µg/L	4.16	4997.7 ppb	4.16	0.08%
QC value within limits for Ca 317.933Radial Recovery = 99.95%						
Cd 226.502†	72082.0	497.46 µg/L	1.502	497.46 ppb	1.502	0.30%
QC value within limits for Cd 226.502 Recovery = 99.49%						

Co 228.616†	36969.0	506.48 µg/L	0.406	506.48 ppb	0.406	0.08%
QC value within limits for Co 228.616 Recovery = 101.30%						
Cr 267.716†	56797.1	487.73 µg/L	0.662	487.73 ppb	0.662	0.14%
QC value within limits for Cr 267.716 Recovery = 97.55%						
Cu 324.752†	116997.0	510.13 µg/L	1.195	510.13 ppb	1.195	0.23%
QC value within limits for Cu 324.752 Recovery = 102.03%						
Fe 238.204 Radial†	75425.3	5014.5 µg/L	3.46	5014.5 ppb	3.46	0.07%
QC value within limits for Fe 238.204 Radial Recovery = 100.29%						
K 766.490 Radial†	6001.6	2467.9 µg/L	3.77	2467.9 ppb	3.77	0.15%
QC value within limits for K 766.490 Radial Recovery = 98.71%						
Mg 279.077 IEC†	12581.6	5195.9 µg/L	26.65	5195.9 ppb	26.65	0.51%
QC value within limits for Mg 279.077 IEC Recovery = 103.92%						
Mn 257.610†	370367.8	505.87 µg/L	1.083	505.87 ppb	1.083	0.21%
QC value within limits for Mn 257.610 Recovery = 101.17%						
Mo 202.031†	16441.1	519.44 µg/L	2.624	519.44 ppb	2.624	0.51%
QC value within limits for Mo 202.031 Recovery = 103.89%						
Na 589.592 Radial†	16099.7	2461.3 µg/L	14.63	2461.3 ppb	14.63	0.59%
QC value within limits for Na 589.592 Radial Recovery = 98.45%						
Ni 231.604†	38694.1	494.94 µg/L	1.317	494.94 ppb	1.317	0.27%
QC value within limits for Ni 231.604 Recovery = 98.99%						
P 214.914†	10294.2	2456.5 µg/L	16.81	2456.5 ppb	16.81	0.68%
QC value within limits for P 214.914 Recovery = 98.26%						
Pb 220.353†	8212.4	499.12 µg/L	1.581	499.12 ppb	1.581	0.32%
QC value within limits for Pb 220.353 Recovery = 99.82%						
S 181.975 Axial†	2974.5	2414.3 µg/L	2.40	2414.3 ppb	2.40	0.10%
QC value within limits for S 181.975 Axial Recovery = 96.57%						
Sb 206.836†	3627.1	490.90 µg/L	3.546	490.90 ppb	3.546	0.72%
QC value within limits for Sb 206.836 Recovery = 98.18%						
Se 196.026†	6251.2	2470 µg/L	14.0	2470 ppb	14.0	0.57%
QC value within limits for Se 196.026 Recovery = 98.99%						
SiO2†	96583.8	10534 µg/L	31.3	10534 ppb	31.3	0.30%
QC value within limits for SiO2 Recovery = 98.50%						
Si 251.611†	297731.3	4912.6 µg/L	8.25	4912.6 ppb	8.25	0.17%
QC value within limits for Si 251.611 Recovery = 98.25%						
Sn 189.927†	7302.7	520.79 µg/L	2.541	520.79 ppb	2.541	0.49%
QC value within limits for Sn 189.927 Recovery = 104.16%						
Sr 421.552†	226415.3	530.62 µg/L	4.259	530.62 ppb	4.259	0.80%
QC value within limits for Sr 421.552 Recovery = 106.12%						
Ti 334.940†	473994.7	482.69 µg/L	1.073	482.69 ppb	1.073	0.22%
QC value within limits for Ti 334.940 Recovery = 96.54%						
Tl 190.801†	3847.8	523.78 µg/L	3.151	523.78 ppb	3.151	0.60%
QC value within limits for Tl 190.801 Recovery = 104.76%						
U 409.014†	7058.3	466.61 µg/L	5.511	466.61 ppb	5.511	1.18%
QC value within limits for U 409.014 Recovery = 93.32%						
V 292.402†	89793.9	504.61 µg/L	1.101	504.61 ppb	1.101	0.22%
QC value within limits for V 292.402 Recovery = 100.92%						
Zn 213.857†	79553.9	496.85 µg/L	0.443	496.85 ppb	0.443	0.09%
QC value within limits for Zn 213.857 Recovery = 99.37%						
All analyte(s) passed QC.						

Sequence No.: 7

Sample ID: ICB

Analyst:

Logged In Analyst (Original) : optima4

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 3/29/2010 18:37:32

Data Type: Reprocessed on 3/29/2010 19:14:36

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 361.383	1718110.5	1718110.5	102.71 %		18:39:24
1	Sc RADIAL	149870.1	149870.1	103 %		18:38:01
1	Y 371.029	1056124.6	1056124.6	103.28 %		18:39:24
1	Ag 328.068†	2764.1	-275.9	-1.1170 µg/L	-1.1170 ppb	18:39:26
1	Al 396.153Radial†	-34.1	-1.3	-0.3025 µg/L	-0.3025 ppb	18:38:21
1	As 188.979†	-13.9	0.8	0.3158 µg/L	0.3158 ppb	18:39:46
1	B 249.677†	3290.8	-151.7	-2.5477 µg/L	-2.5477 ppb	18:39:46
1	Ba 233.527†	-149.3	29.7	0.1352 µg/L	0.1352 ppb	18:39:46
1	Be 313.107†	-642.8	34.2	0.0134 µg/L	0.0134 ppb	18:39:26
1	Ca 317.933Radial†	601.2	-31.5	-1.8457 µg/L	-1.8457 ppb	18:38:21
1	Cd 226.502†	-82.2	14.4	0.0988 µg/L	0.0988 ppb	18:39:46
1	Co 228.616†	-179.0	2.3	0.0321 µg/L	0.0321 ppb	18:39:46
1	Cr 267.716†	164.4	-0.2	-0.0075 µg/L	-0.0075 ppb	18:39:46
1	Cu 324.752†	2372.4	-115.1	-0.4939 µg/L	-0.4939 ppb	18:39:26
1	Fe 238.204 Radial†	141.5	24.3	1.6170 µg/L	1.6170 ppb	18:38:21
1	K 766.490 Radial†	1569.1	71.0	29.223 µg/L	29.223 ppb	18:38:01
1	Mg 279.077 IEC†	162.3	-28.9	-11.902 µg/L	-11.902 ppb	18:38:21
1	Mn 257.610†	162.2	77.9	0.1069 µg/L	0.1069 ppb	18:39:46
1	Mo 202.031†	-48.8	7.7	0.2416 µg/L	0.2416 ppb	18:39:46
1	Na 589.592 Radial†	1595.3	-143.3	-21.948 µg/L	-21.948 ppb	18:38:01
1	Ni 231.604†	-74.2	-31.3	-0.4003 µg/L	-0.4003 ppb	18:39:46
1	P 214.914†	77.1	-4.5	-1.0788 µg/L	-1.0788 ppb	18:39:46
1	Pb 220.353†	105.8	-9.5	-0.5776 µg/L	-0.5776 ppb	18:39:46
1	S 181.975 Axial†	96.4	-1.0	-0.8082 µg/L	-0.8082 ppb	18:39:46
1	Sb 206.836†	76.9	-11.8	-1.5863 µg/L	-1.5863 ppb	18:39:46
1	Se 196.026†	30.3	18.6	7.35 µg/L	7.35 ppb	18:39:46
1	SiO2†	1615.4	-0.1	-0.0156 µg/L	-0.0156 ppb	18:39:46
1	Si 251.611†	756.3	60.0	0.9881 µg/L	0.9881 ppb	18:39:26
1	Sn 189.927†	2.2	0.2	0.0117 µg/L	0.0117 ppb	18:39:46
1	Sr 421.552†	-232.4	51.9	0.1217 µg/L	0.1217 ppb	18:38:01
1	Ti 334.940†	823.7	165.6	0.1667 µg/L	0.1667 ppb	18:39:26
1	Tl 190.801†	-129.5	-5.8	-0.7821 µg/L	-0.7821 ppb	18:39:46
1	U 409.014†	-365.4	123.4	7.5895 µg/L	7.5895 ppb	18:39:26
1	V 292.402†	336.7	-104.0	-0.5695 µg/L	-0.5695 ppb	18:39:26
1	Zn 213.857†	481.8	4.7	0.0326 µg/L	0.0326 ppb	18:39:46
2	Sc 361.383	1718304.1	1718304.1	102.72 %		18:39:48
2	Sc RADIAL	149819.8	149819.8	103 %		18:38:23
2	Y 371.029	1056622.1	1056622.1	103.33 %		18:39:48
2	Ag 328.068†	3062.4	14.3	0.0846 µg/L	0.0846 ppb	18:39:50
2	Al 396.153Radial†	-45.4	-12.3	-2.7171 µg/L	-2.7171 ppb	18:38:44
2	As 188.979†	-10.9	3.6	1.5162 µg/L	1.5162 ppb	18:40:10
2	B 249.677†	3277.0	-165.5	-2.7792 µg/L	-2.7792 ppb	18:40:10
2	Ba 233.527†	-168.1	11.4	0.0526 µg/L	0.0526 ppb	18:40:10
2	Be 313.107†	-415.9	255.2	0.0882 µg/L	0.0882 ppb	18:39:50
2	Ca 317.933Radial†	633.4	0.0	0.0016 µg/L	0.0016 ppb	18:38:44
2	Cd 226.502†	-115.3	-17.9	-0.1235 µg/L	-0.1235 ppb	18:40:10
2	Co 228.616†	-162.9	18.1	0.2472 µg/L	0.2472 ppb	18:40:10
2	Cr 267.716†	189.3	24.1	0.1939 µg/L	0.1939 ppb	18:40:10
2	Cu 324.752†	2490.6	-0.2	0.0132 µg/L	0.0132 ppb	18:39:50
2	Fe 238.204 Radial†	132.2	15.4	1.0215 µg/L	1.0215 ppb	18:38:44
2	K 766.490 Radial†	1519.5	23.3	9.5884 µg/L	9.5884 ppb	18:38:23
2	Mg 279.077 IEC†	195.8	3.8	1.5733 µg/L	1.5733 ppb	18:38:44
2	Mn 257.610†	168.0	83.5	0.1141 µg/L	0.1141 ppb	18:40:10
2	Mo 202.031†	-35.6	20.5	0.6489 µg/L	0.6489 ppb	18:40:10
2	Na 589.592 Radial†	1651.7	-87.8	-13.450 µg/L	-13.450 ppb	18:38:23
2	Ni 231.604†	-55.2	-12.8	-0.1641 µg/L	-0.1641 ppb	18:40:10
2	P 214.914†	83.6	1.8	0.4344 µg/L	0.4344 ppb	18:40:10
2	Pb 220.353†	94.6	-20.3	-1.2399 µg/L	-1.2399 ppb	18:40:10

2	S 181.975 Axial†	84.2	-12.9	-10.416 µg/L	-10.416 ppb	18:40:10
2	Sb 206.836†	72.7	-15.8	-2.1296 µg/L	-2.1296 ppb	18:40:10
2	Se 196.026†	25.1	13.5	5.37 µg/L	5.37 ppb	18:40:10
2	SiO2†	1629.2	13.2	1.4227 µg/L	1.4227 ppb	18:40:10
2	Si 251.611†	776.2	79.3	1.3023 µg/L	1.3023 ppb	18:39:50
2	Sn 189.927†	1.7	-0.4	-0.0258 µg/L	-0.0258 ppb	18:40:10
2	Sr 421.552†	-119.9	161.3	0.3781 µg/L	0.3781 ppb	18:38:23
2	Ti 334.940†	906.1	245.8	0.2435 µg/L	0.2435 ppb	18:39:50
2	Tl 190.801†	-120.0	3.5	0.4698 µg/L	0.4698 ppb	18:40:10
2	U 409.014†	-211.2	273.5	16.929 µg/L	16.929 ppb	18:39:50
2	V 292.402†	536.3	90.3	0.5193 µg/L	0.5193 ppb	18:39:50
2	Zn 213.857†	461.1	-15.5	-0.0967 µg/L	-0.0967 ppb	18:40:10
3	Sc 361.383	1698930.8	1698930.8	101.56 %		18:40:12
3	Sc RADIAL	152143.2	152143.2	104 %		18:38:46
3	Y 371.029	1045315.3	1045315.3	102.22 %		18:40:12
3	Ag 328.068†	3085.7	71.1	0.2837 µg/L	0.2837 ppb	18:40:14
3	Al 396.153Radial†	-62.8	-28.3	-6.2230 µg/L	-6.2230 ppb	18:39:06
3	As 188.979†	-25.2	-10.6	-4.4173 µg/L	-4.4173 ppb	18:40:34
3	B 249.677†	3266.7	-139.3	-2.3411 µg/L	-2.3411 ppb	18:40:34
3	Ba 233.527†	-163.9	13.7	0.0623 µg/L	0.0623 ppb	18:40:34
3	Be 313.107†	-627.7	42.1	0.0141 µg/L	0.0141 ppb	18:40:14
3	Ca 317.933Radial†	630.0	-12.6	-0.7399 µg/L	-0.7399 ppb	18:39:06
3	Cd 226.502†	-76.1	19.4	0.1339 µg/L	0.1339 ppb	18:40:34
3	Co 228.616†	-133.4	45.2	0.6195 µg/L	0.6195 ppb	18:40:34
3	Cr 267.716†	156.7	-5.9	-0.0523 µg/L	-0.0523 ppb	18:40:34
3	Cu 324.752†	2540.5	76.5	0.3341 µg/L	0.3341 ppb	18:40:14
3	Fe 238.204 Radial†	134.4	15.5	1.0313 µg/L	1.0313 ppb	18:39:06
3	K 766.490 Radial†	1520.9	2.1	0.8535 µg/L	0.8535 ppb	18:38:46
3	Mg 279.077 IEC†	186.1	-8.4	-3.4269 µg/L	-3.4269 ppb	18:39:06
3	Mn 257.610†	142.8	60.6	0.0829 µg/L	0.0829 ppb	18:40:34
3	Mo 202.031†	-28.7	26.9	0.8495 µg/L	0.8495 ppb	18:40:34
3	Na 589.592 Radial†	1594.0	-167.7	-25.662 µg/L	-25.662 ppb	18:38:46
3	Ni 231.604†	-74.3	-32.3	-0.4127 µg/L	-0.4127 ppb	18:40:34
3	P 214.914†	71.0	-9.6	-2.3151 µg/L	-2.3151 ppb	18:40:34
3	Pb 220.353†	138.9	24.3	1.4738 µg/L	1.4738 ppb	18:40:34
3	S 181.975 Axial†	87.7	-8.5	-6.8917 µg/L	-6.8917 ppb	18:40:34
3	Sb 206.836†	71.9	-15.8	-2.1234 µg/L	-2.1234 ppb	18:40:34
3	Se 196.026†	21.3	10.1	3.99 µg/L	3.99 ppb	18:40:34
3	SiO2†	1618.8	21.0	2.2686 µg/L	2.2686 ppb	18:40:34
3	Si 251.611†	788.9	100.3	1.6458 µg/L	1.6458 ppb	18:40:14
3	Sn 189.927†	6.3	4.2	0.2956 µg/L	0.2956 ppb	18:40:34
3	Sr 421.552†	-237.8	50.2	0.1176 µg/L	0.1176 ppb	18:38:46
3	Ti 334.940†	556.8	-88.1	-0.0902 µg/L	-0.0902 ppb	18:40:14
3	Tl 190.801†	-119.8	2.3	0.3073 µg/L	0.3073 ppb	18:40:34
3	U 409.014†	-464.1	22.2	1.3392 µg/L	1.3392 ppb	18:40:14
3	V 292.402†	338.6	-98.5	-0.5367 µg/L	-0.5367 ppb	18:40:14
3	Zn 213.857†	460.6	-10.9	-0.0662 µg/L	-0.0662 ppb	18:40:34

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1711781.8	102.33 %	0.665			0.65%
Sc RADIAL	150611.1	103 %	0.9			0.88%
Y 371.029	1052687.3	102.94 %	0.625			0.61%
Ag 328.068†	-63.5	-0.2496 µg/L	0.75780	-0.2496 ppb	0.75780	303.64%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-14.0	-3.0809 µg/L	2.97697	-3.0809 ppb	2.97697	96.63%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.1	-0.8618 µg/L	3.13716	-0.8618 ppb	3.13716	364.04%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-152.2	-2.5560 µg/L	0.21918	-2.5560 ppb	0.21918	8.58%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	18.2	0.0834 µg/L	0.04516	0.0834 ppb	0.04516	54.17%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	110.5	0.0386 µg/L	0.04296	0.0386 ppb	0.04296	111.35%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-14.7	-0.8613 µg/L	0.92961	-0.8613 ppb	0.92961	107.93%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	5.3	0.0364 µg/L	0.13959	0.0364 ppb	0.13959	383.42%
QC value within limits for Cd 226.502 Recovery = Not calculated						

Co 228.616†	21.9	0.2996 µg/L	0.29720	0.2996 ppb	0.29720	99.21%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	6.0	0.0447 µg/L	0.13112	0.0447 ppb	0.13112	293.47%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-12.9	-0.0489 µg/L	0.41746	-0.0489 ppb	0.41746	854.27%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	18.4	1.2233 µg/L	0.34099	1.2233 ppb	0.34099	27.88%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	32.1	13.222 µg/L	14.5294	13.222 ppb	14.5294	109.89%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-11.2	-4.5853 µg/L	6.81203	-4.5853 ppb	6.81203	148.56%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	74.0	0.1013 µg/L	0.01630	0.1013 ppb	0.01630	16.09%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	18.4	0.5800 µg/L	0.30975	0.5800 ppb	0.30975	53.40%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-132.9	-20.353 µg/L	6.2604	-20.353 ppb	6.2604	30.76%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-25.5	-0.3257 µg/L	0.14010	-0.3257 ppb	0.14010	43.01%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-4.1	-0.9865 µg/L	1.37705	-0.9865 ppb	1.37705	139.59%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-1.8	-0.1146 µg/L	1.41489	-0.1146 ppb	1.41489	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-7.5	-6.0387 µg/L	4.86046	-6.0387 ppb	4.86046	80.49%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-14.5	-1.9465 µg/L	0.31193	-1.9465 ppb	0.31193	16.03%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	14.1	5.57 µg/L	1.688	5.57 ppb	1.688	30.30%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	11.4	1.2252 µg/L	1.15483	1.2252 ppb	1.15483	94.25%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	79.9	1.3121 µg/L	0.32896	1.3121 ppb	0.32896	25.07%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	1.3	0.0938 µg/L	0.17571	0.0938 ppb	0.17571	187.29%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	87.8	0.2058 µg/L	0.14923	0.2058 ppb	0.14923	72.50%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	107.7	0.1067 µg/L	0.17474	0.1067 ppb	0.17474	163.81%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	0.0	-0.0017 µg/L	0.68072	-0.0017 ppb	0.68072	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	139.7	8.6193 µg/L	7.84577	8.6193 ppb	7.84577	91.03%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-37.4	-0.1957 µg/L	0.61936	-0.1957 ppb	0.61936	316.55%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-7.2	-0.0435 µg/L	0.06758	-0.0435 ppb	0.06758	155.53%
QC value within limits for Zn 213.857 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 8

Sample ID: PQL

Analyst:

Logged In Analyst (Original) : optima4

Initial Sample Wt:

Dilution:

Autosampler Location: 101

Date Collected: 3/29/2010 18:40:43

Data Type: Reprocessed on 3/29/2010 19:14:37

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	1721442.6	1721442.6	102.91 %			18:41:40
1	Sc RADIAL	147903.8	147903.8	101 %			18:41:13
1	Y 371.029	1058404.9	1058404.9	103.50 %			18:41:40
1	Ag 328.068†	4025.6	944.7	3.9659 µg/L		3.9659 ppb	18:41:43
1	Al 396.153Radial†	922.6	941.1	204.98 µg/L		204.98 ppb	18:41:15
1	As 188.979†	70.2	82.5	34.551 µg/L		34.551 ppb	18:42:03
1	B 249.677†	6252.3	2719.8	45.645 µg/L		45.645 ppb	18:41:43
1	Ba 233.527†	968.6	1116.3	5.1042 µg/L		5.1042 ppb	18:42:03
1	Be 313.107†	14893.3	15132.4	4.9477 µg/L		4.9477 ppb	18:41:43
1	Ca 317.933Radial†	4243.5	3565.6	208.93 µg/L		208.93 ppb	18:41:15
1	Cd 226.502†	637.3	713.7	4.9197 µg/L		4.9197 ppb	18:42:03
1	Co 228.616†	202.6	373.5	5.1141 µg/L		5.1141 ppb	18:42:03
1	Cr 267.716†	729.0	548.1	4.6505 µg/L		4.6505 ppb	18:42:03
1	Cu 324.752†	4895.4	2332.1	10.224 µg/L		10.224 ppb	18:41:43
1	Fe 238.204 Radial†	1705.5	1567.4	104.21 µg/L		104.21 ppb	18:41:15
1	K 766.490 Radial†	1904.1	421.4	173.34 µg/L		173.34 ppb	18:41:13
1	Mg 279.077 IEC†	935.0	734.7	303.09 µg/L		303.09 ppb	18:41:15
1	Mn 257.610†	7824.8	7523.6	10.268 µg/L		10.268 ppb	18:41:43
1	Mo 202.031†	258.6	306.5	9.6870 µg/L		9.6870 ppb	18:42:03
1	Na 589.592 Radial†	3412.3	1667.9	255.06 µg/L		255.06 ppb	18:41:15
1	Ni 231.604†	353.8	384.7	4.9210 µg/L		4.9210 ppb	18:42:03
1	P 214.914†	701.3	601.9	143.99 µg/L		143.99 ppb	18:42:03
1	Pb 220.353†	285.3	164.8	9.9640 µg/L		9.9640 ppb	18:42:03
1	S 181.975 Axial†	217.5	116.6	94.518 µg/L		94.518 ppb	18:42:03
1	Sb 206.836†	151.7	60.8	8.2873 µg/L		8.2873 ppb	18:42:03
1	Se 196.026†	93.5	79.9	31.7 µg/L		31.7 ppb	18:42:03
1	SiO2†	3528.6	1856.0	202.45 µg/L		202.45 ppb	18:41:43
1	Si 251.611†	7008.2	6133.7	101.23 µg/L		101.23 ppb	18:41:43
1	Sn 189.927†	141.3	135.3	9.6379 µg/L		9.6379 ppb	18:42:03
1	Sr 421.552†	2328.3	2572.4	6.0274 µg/L		6.0274 ppb	18:41:15
1	Ti 334.940†	5694.2	4896.9	4.9428 µg/L		4.9428 ppb	18:41:43
1	Tl 190.801†	28.4	147.9	19.934 µg/L		19.934 ppb	18:42:03
1	U 409.014†	713.0	1172.0	72.715 µg/L		72.715 ppb	18:41:43
1	V 292.402†	1246.9	779.8	4.4736 µg/L		4.4736 ppb	18:41:43
1	Zn 213.857†	2077.4	1554.3	9.7365 µg/L		9.7365 ppb	18:42:03
2	Sc 361.383	1724623.2	1724623.2	103.10 %			18:42:05
2	Sc RADIAL	148676.2	148676.2	102 %			18:41:17
2	Y 371.029	1060877.7	1060877.7	103.75 %			18:42:05
2	Ag 328.068†	4441.5	1340.9	5.5444 µg/L		5.5444 ppb	18:42:07
2	Al 396.153Radial†	882.0	896.6	195.25 µg/L		195.25 ppb	18:41:19
2	As 188.979†	60.0	72.5	30.385 µg/L		30.385 ppb	18:42:27
2	B 249.677†	6195.0	2653.1	44.524 µg/L		44.524 ppb	18:42:07
2	Ba 233.527†	972.4	1118.3	5.1130 µg/L		5.1130 ppb	18:42:27
2	Be 313.107†	15035.6	15243.7	4.9775 µg/L		4.9775 ppb	18:42:07
2	Ca 317.933Radial†	4053.9	3358.0	196.76 µg/L		196.76 ppb	18:41:19
2	Cd 226.502†	642.0	717.1	4.9432 µg/L		4.9432 ppb	18:42:27
2	Co 228.616†	195.2	365.9	5.0104 µg/L		5.0104 ppb	18:42:27
2	Cr 267.716†	741.9	559.4	4.7640 µg/L		4.7640 ppb	18:42:27
2	Cu 324.752†	4804.6	2235.3	9.7851 µg/L		9.7851 ppb	18:42:07
2	Fe 238.204 Radial†	1689.7	1543.2	102.60 µg/L		102.60 ppb	18:41:19
2	K 766.490 Radial†	1941.0	447.8	184.20 µg/L		184.20 ppb	18:41:17
2	Mg 279.077 IEC†	934.9	729.8	301.08 µg/L		301.08 ppb	18:41:19
2	Mn 257.610†	7840.1	7524.4	10.269 µg/L		10.269 ppb	18:42:07
2	Mo 202.031†	268.7	315.9	9.9813 µg/L		9.9813 ppb	18:42:27
2	Na 589.592 Radial†	3585.8	1820.6	278.41 µg/L		278.41 ppb	18:41:19
2	Ni 231.604†	360.6	390.7	4.9969 µg/L		4.9969 ppb	18:42:27
2	P 214.914†	704.9	604.1	144.53 µg/L		144.53 ppb	18:42:27
2	Pb 220.353†	256.9	136.7	8.2831 µg/L		8.2831 ppb	18:42:27

2	S 181.975 Axial†	211.0	109.8	89.075 µg/L	89.075 ppb	18:42:27
2	Sb 206.836†	139.1	48.3	6.6025 µg/L	6.6025 ppb	18:42:27
2	Se 196.026†	85.2	71.7	28.4 µg/L	28.4 ppb	18:42:27
2	SiO2†	3666.3	1983.3	216.34 µg/L	216.34 ppb	18:42:07
2	Si 251.611†	6987.0	6100.5	100.67 µg/L	100.67 ppb	18:42:07
2	Sn 189.927†	148.9	142.4	10.142 µg/L	10.142 ppb	18:42:27
2	Sr 421.552†	2257.8	2491.4	5.8378 µg/L	5.8378 ppb	18:41:19
2	Ti 334.940†	5599.5	4794.8	4.8474 µg/L	4.8474 ppb	18:42:07
2	Tl 190.801†	28.5	147.9	19.938 µg/L	19.938 ppb	18:42:27
2	U 409.014†	356.1	824.5	51.229 µg/L	51.229 ppb	18:42:07
2	V 292.402†	1199.8	731.9	4.1969 µg/L	4.1969 ppb	18:42:07
2	Zn 213.857†	2110.9	1583.0	9.9172 µg/L	9.9172 ppb	18:42:27
3	Sc 361.383	1709181.0	1709181.0	102.18 %		18:42:29
3	Sc RADIAL	148765.1	148765.1	102 %		18:41:21
3	Y 371.029	1051117.1	1051117.1	102.79 %		18:42:29
3	Ag 328.068†	4096.5	1042.2	4.3518 µg/L	4.3518 ppb	18:42:31
3	Al 396.153Radial†	913.9	927.3	201.93 µg/L	201.93 ppb	18:41:23
3	As 188.979†	45.1	58.4	24.503 µg/L	24.503 ppb	18:42:51
3	B 249.677†	6365.0	2873.8	48.229 µg/L	48.229 ppb	18:42:31
3	Ba 233.527†	993.8	1147.7	5.2479 µg/L	5.2479 ppb	18:42:51
3	Be 313.107†	15404.4	15736.4	5.1406 µg/L	5.1406 ppb	18:42:31
3	Ca 317.933Radial†	4204.3	3503.0	205.26 µg/L	205.26 ppb	18:41:23
3	Cd 226.502†	656.9	737.3	5.0831 µg/L	5.0831 ppb	18:42:51
3	Co 228.616†	214.1	386.1	5.2868 µg/L	5.2868 ppb	18:42:51
3	Cr 267.716†	776.9	600.1	5.1070 µg/L	5.1070 ppb	18:42:51
3	Cu 324.752†	4905.4	2376.0	10.405 µg/L	10.405 ppb	18:42:31
3	Fe 238.204 Radial†	1701.7	1554.0	103.31 µg/L	103.31 ppb	18:41:23
3	K 766.490 Radial†	1863.7	371.0	152.58 µg/L	152.58 ppb	18:41:21
3	Mg 279.077 IEC†	946.2	740.4	305.43 µg/L	305.43 ppb	18:41:23
3	Mn 257.610†	7932.9	7683.9	10.487 µg/L	10.487 ppb	18:42:31
3	Mo 202.031†	276.9	326.2	10.308 µg/L	10.308 ppb	18:42:51
3	Na 589.592 Radial†	3380.4	1617.2	247.32 µg/L	247.32 ppb	18:41:23
3	Ni 231.604†	372.2	405.1	5.1823 µg/L	5.1823 ppb	18:42:51
3	P 214.914†	693.9	599.5	143.42 µg/L	143.42 ppb	18:42:51
3	Pb 220.353†	299.1	180.3	10.914 µg/L	10.914 ppb	18:42:51
3	S 181.975 Axial†	216.9	117.4	95.241 µg/L	95.241 ppb	18:42:51
3	Sb 206.836†	178.2	87.8	11.935 µg/L	11.935 ppb	18:42:51
3	Se 196.026†	84.3	71.6	28.4 µg/L	28.4 ppb	18:42:51
3	SiO2†	3665.9	2015.0	219.80 µg/L	219.80 ppb	18:42:31
3	Si 251.611†	7292.1	6460.4	106.62 µg/L	106.62 ppb	18:42:31
3	Sn 189.927†	146.0	140.9	10.035 µg/L	10.035 ppb	18:42:51
3	Sr 421.552†	2185.8	2419.5	5.6692 µg/L	5.6692 ppb	18:41:23
3	Ti 334.940†	5763.7	5004.6	5.0573 µg/L	5.0573 ppb	18:42:31
3	Tl 190.801†	37.2	156.7	21.117 µg/L	21.117 ppb	18:42:51
3	U 409.014†	504.2	972.6	60.421 µg/L	60.421 ppb	18:42:31
3	V 292.402†	1321.2	861.3	4.9254 µg/L	4.9254 ppb	18:42:31
3	Zn 213.857†	2122.4	1612.8	10.103 µg/L	10.103 ppb	18:42:51

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1718415.6	102.73 %	0.487			0.47%
Sc RADIAL	148448.4	102 %	0.3			0.32%
Y 371.029	1056799.9	103.35 %	0.496			0.48%
Ag 328.068†	1109.3	4.6207 µg/L	0.82285	4.6207 ppb	0.82285	17.81%
QC value within limits for Ag 328.068 Recovery = 92.41%						
Al 396.153Radial†	921.7	200.72 µg/L	4.978	200.72 ppb	4.978	2.48%
QC value within limits for Al 396.153Radial Recovery = 100.36%						
As 188.979†	71.1	29.813 µg/L	5.0483	29.813 ppb	5.0483	16.93%
QC value within limits for As 188.979 Recovery = 99.38%						
B 249.677†	2748.9	46.133 µg/L	1.8998	46.133 ppb	1.8998	4.12%
QC value within limits for B 249.677 Recovery = 92.27%						
Ba 233.527†	1127.4	5.1550 µg/L	0.08056	5.1550 ppb	0.08056	1.56%
QC value within limits for Ba 233.527 Recovery = 103.10%						
Be 313.107†	15370.8	5.0219 µg/L	0.10386	5.0219 ppb	0.10386	2.07%
QC value within limits for Be 313.107 Recovery = 100.44%						
Ca 317.933Radial†	3475.5	203.65 µg/L	6.241	203.65 ppb	6.241	3.06%
QC value within limits for Ca 317.933Radial Recovery = 101.83%						
Cd 226.502†	722.7	4.9820 µg/L	0.08834	4.9820 ppb	0.08834	1.77%
QC value within limits for Cd 226.502 Recovery = 99.64%						

Co 228.616†	375.2	5.1371 µg/L	0.13962	5.1371 ppb	0.13962	2.72%
QC value within limits for Co 228.616 Recovery = 102.74%						
Cr 267.716†	569.2	4.8405 µg/L	0.23770	4.8405 ppb	0.23770	4.91%
QC value within limits for Cr 267.716 Recovery = 96.81%						
Cu 324.752†	2314.5	10.138 µg/L	0.3187	10.138 ppb	0.3187	3.14%
QC value within limits for Cu 324.752 Recovery = 101.38%						
Fe 238.204 Radial†	1554.9	103.37 µg/L	0.806	103.37 ppb	0.806	0.78%
QC value within limits for Fe 238.204 Radial Recovery = 103.37%						
K 766.490 Radial†	413.4	170.04 µg/L	16.070	170.04 ppb	16.070	9.45%
QC value within limits for K 766.490 Radial Recovery = 113.36%						
Mg 279.077 IEC†	735.0	303.20 µg/L	2.180	303.20 ppb	2.180	0.72%
QC value within limits for Mg 279.077 IEC Recovery = 101.07%						
Mn 257.610†	7577.3	10.342 µg/L	0.1261	10.342 ppb	0.1261	1.22%
QC value within limits for Mn 257.610 Recovery = 103.42%						
Mo 202.031†	316.2	9.9921 µg/L	0.31074	9.9921 ppb	0.31074	3.11%
QC value within limits for Mo 202.031 Recovery = 99.92%						
Na 589.592 Radial†	1701.9	260.27 µg/L	16.186	260.27 ppb	16.186	6.22%
QC value within limits for Na 589.592 Radial Recovery = 86.76%						
Ni 231.604†	393.5	5.0334 µg/L	0.13439	5.0334 ppb	0.13439	2.67%
QC value within limits for Ni 231.604 Recovery = 100.67%						
P 214.914†	601.9	143.98 µg/L	0.554	143.98 ppb	0.554	0.38%
QC value within limits for P 214.914 Recovery = 95.99%						
Pb 220.353†	160.6	9.7204 µg/L	1.33235	9.7204 ppb	1.33235	13.71%
QC value within limits for Pb 220.353 Recovery = 97.20%						
S 181.975 Axial†	114.6	92.945 µg/L	3.3708	92.945 ppb	3.3708	3.63%
QC value within limits for S 181.975 Axial Recovery = 92.94%						
Sb 206.836†	65.6	8.9415 µg/L	2.72562	8.9415 ppb	2.72562	30.48%
QC value within limits for Sb 206.836 Recovery = 89.41%						
Se 196.026†	74.4	29.5 µg/L	1.90	29.5 ppb	1.90	6.42%
QC value within limits for Se 196.026 Recovery = 98.43%						
SiO2†	1951.4	212.86 µg/L	9.186	212.86 ppb	9.186	4.32%
QC value within limits for SiO2 Recovery = 99.94%						
Si 251.611†	6231.5	102.84 µg/L	3.285	102.84 ppb	3.285	3.19%
QC value within limits for Si 251.611 Recovery = 102.84%						
Sn 189.927†	139.6	9.9381 µg/L	0.26552	9.9381 ppb	0.26552	2.67%
QC value within limits for Sn 189.927 Recovery = 99.38%						
Sr 421.552†	2494.5	5.8448 µg/L	0.17922	5.8448 ppb	0.17922	3.07%
QC value within limits for Sr 421.552 Recovery = 116.90%						
Ti 334.940†	4898.8	4.9492 µg/L	0.10510	4.9492 ppb	0.10510	2.12%
QC value within limits for Ti 334.940 Recovery = 98.98%						
Tl 190.801†	150.8	20.330 µg/L	0.6817	20.330 ppb	0.6817	3.35%
QC value within limits for Tl 190.801 Recovery = 101.65%						
U 409.014†	989.7	61.455 µg/L	10.7804	61.455 ppb	10.7804	17.54%
QC value within limits for U 409.014 Recovery = 122.91%						
V 292.402†	791.0	4.5320 µg/L	0.36774	4.5320 ppb	0.36774	8.11%
QC value within limits for V 292.402 Recovery = 90.64%						
Zn 213.857†	1583.4	9.9190 µg/L	0.18336	9.9190 ppb	0.18336	1.85%
QC value within limits for Zn 213.857 Recovery = 99.19%						

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: ICSA

Analyst:

Logged In Analyst (Original) : optima4

Initial Sample Wt:

Dilution:

Autosampler Location: 103

Date Collected: 3/29/2010 18:43:01

Data Type: Reprocessed on 3/29/2010 19:14:38

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 361.383	1519975.5	1519975.5	90.866 %		18:44:01
1	Sc RADIAL	137750.3	137750.3	94.5 %		18:43:34
1	Y 371.029	919968.6	919968.6	89.965 %		18:44:01
1	Ag 328.068†	5916.7	3544.4	1.2267 µg/L	1.2267 ppb	18:44:01
1	Al 396.153Radial†	2228558.9	2358079.9	514740 µg/L	514740 ppb	18:43:31
1	As 188.979†	-88.3	-82.9	8.1301 µg/L	8.1301 ppb	18:44:21
1	B 249.677†	3032.6	-18.3	-0.3191 µg/L	-0.3191 ppb	18:44:01
1	Ba 233.527†	439.8	659.1	0.5804 µg/L	0.5804 ppb	18:44:21
1	Be 313.107†	-620.0	-22.3	0.0066 µg/L	0.0066 ppb	18:44:01
1	Ca 317.933Radial†	7783821.6	8235480.1	482560 µg/L	482560 ppb	18:43:31
1	Cd 226.502†	2257.8	2579.2	-2.2506 µg/L	-2.2506 ppb	18:44:21
1	Co 228.616†	76.3	260.5	-6.3814 µg/L	-6.3814 ppb	18:44:21
1	Cr 267.716†	306.4	176.9	2.2002 µg/L	2.2002 ppb	18:44:21
1	Cu 324.752†	-6875.9	-9992.0	-2.5122 µg/L	-2.5122 ppb	18:44:01
1	Fe 238.204 Radial†	2712004.8	2869471.1	190770 µg/L	190770 ppb	18:43:31
1	K 766.490 Radial†	1538.5	172.9	-171.54 µg/L	-171.54 ppb	18:43:34
1	Mg 279.077 IEC†	1111575.2	1175976.0	484700 µg/L	484700 ppb	18:43:31
1	Mn 257.610†	14620.3	16010.1	2.1476 µg/L	2.1476 ppb	18:44:01
1	Mo 202.031†	-501.7	-496.9	0.7251 µg/L	0.7251 ppb	18:44:01
1	Na 589.592 Radial†	1635.3	35.6	5.3873 µg/L	5.3873 ppb	18:43:34
1	Ni 231.604†	146.0	201.6	2.5791 µg/L	2.5791 ppb	18:44:21
1	P 214.914†	148.1	83.5	4.8563 µg/L	4.8563 ppb	18:44:21
1	Pb 220.353†	-247.5	-384.9	2.4276 µg/L	2.4276 ppb	18:44:21
1	S 181.975 Axial†	166.5	88.4	71.471 µg/L	71.471 ppb	18:44:21
1	Sb 206.836†	109.8	34.2	-1.4541 µg/L	-1.4541 ppb	18:44:21
1	Se 196.026†	-143.9	-169.3	-0.728 µg/L	-0.728 ppb	18:44:21
1	SiO2†	1500.4	78.4	8.9950 µg/L	8.9950 ppb	18:44:21
1	Si 251.611†	379.6	-258.7	-4.0756 µg/L	-4.0756 ppb	18:44:21
1	Sn 189.927†	17.0	16.7	1.2650 µg/L	1.2650 ppb	18:44:21
1	Sr 421.552†	1360.0	1717.1	0.2472 µg/L	0.2472 ppb	18:43:34
1	Ti 334.940†	20973.2	22445.2	-4.0421 µg/L	-4.0421 ppb	18:44:01
1	Tl 190.801†	-165.7	-62.0	-7.8287 µg/L	-7.8287 ppb	18:44:21
1	U 409.014†	239.9	743.1	25.180 µg/L	25.180 ppb	18:44:01
1	V 292.402†	5463.3	5580.7	0.4848 µg/L	0.4848 ppb	18:44:01
1	Zn 213.857†	3868.4	3792.8	7.6857 µg/L	7.6857 ppb	18:44:21
2	Sc 361.383	1532514.6	1532514.6	91.615 %		18:44:24
2	Sc RADIAL	139244.5	139244.5	95.5 %		18:43:38
2	Y 371.029	927898.5	927898.5	90.741 %		18:44:24
2	Ag 328.068†	5725.2	3282.1	0.2956 µg/L	0.2956 ppb	18:44:24
2	Al 396.153Radial†	2228857.8	2333088.7	509290 µg/L	509290 ppb	18:43:36
2	As 188.979†	-96.0	-90.5	4.5139 µg/L	4.5139 ppb	18:44:44
2	B 249.677†	3203.6	141.1	2.3574 µg/L	2.3574 ppb	18:44:24
2	Ba 233.527†	417.7	631.0	0.4768 µg/L	0.4768 ppb	18:44:44
2	Be 313.107†	-855.2	-273.4	-0.0781 µg/L	-0.0781 ppb	18:44:24
2	Ca 317.933Radial†	7791433.2	8155066.3	477850 µg/L	477850 ppb	18:43:36
2	Cd 226.502†	2233.3	2532.1	-2.3767 µg/L	-2.3767 ppb	18:44:44
2	Co 228.616†	66.6	249.3	-6.4368 µg/L	-6.4368 ppb	18:44:44
2	Cr 267.716†	246.3	108.6	1.6057 µg/L	1.6057 ppb	18:44:44
2	Cu 324.752†	-6872.9	-9926.8	-2.6212 µg/L	-2.6212 ppb	18:44:24
2	Fe 238.204 Radial†	2714288.8	2841068.4	188880 µg/L	188880 ppb	18:43:36
2	K 766.490 Radial†	1618.0	238.7	-142.04 µg/L	-142.04 ppb	18:43:38
2	Mg 279.077 IEC†	1114260.0	1166165.0	480660 µg/L	480660 ppb	18:43:36
2	Mn 257.610†	14586.8	15841.8	2.0830 µg/L	2.0830 ppb	18:44:24
2	Mo 202.031†	-508.1	-499.4	0.4957 µg/L	0.4957 ppb	18:44:24
2	Na 589.592 Radial†	1714.1	99.5	15.141 µg/L	15.141 ppb	18:43:38
2	Ni 231.604†	152.3	207.2	2.6500 µg/L	2.6500 ppb	18:44:44
2	P 214.914†	105.5	35.5	-6.5606 µg/L	-6.5606 ppb	18:44:44
2	Pb 220.353†	-290.5	-429.6	-0.5500 µg/L	-0.5500 ppb	18:44:44

2	S 181.975 Axial†	171.6	92.5	74.799 µg/L	74.799 ppb	18:44:44
2	Sb 206.836†	130.7	56.0	1.5606 µg/L	1.5606 ppb	18:44:44
2	Se 196.026†	-155.0	-180.1	-5.67 µg/L	-5.67 ppb	18:44:44
2	SiO2†	1504.6	69.4	8.0425 µg/L	8.0425 ppb	18:44:44
2	Si 251.611†	375.1	-267.0	-4.2014 µg/L	-4.2014 ppb	18:44:44
2	Sn 189.927†	-4.2	-6.6	-0.3924 µg/L	-0.3924 ppb	18:44:44
2	Sr 421.552†	1366.5	1708.4	0.2637 µg/L	0.2637 ppb	18:43:38
2	Ti 334.940†	21214.1	22519.4	-3.7556 µg/L	-3.7556 ppb	18:44:24
2	Tl 190.801†	-155.0	-48.9	-6.0537 µg/L	-6.0537 ppb	18:44:44
2	U 409.014†	96.2	584.1	15.646 µg/L	15.646 ppb	18:44:24
2	V 292.402†	5684.6	5773.1	1.8417 µg/L	1.8417 ppb	18:44:24
2	Zn 213.857†	3858.3	3747.0	7.5506 µg/L	7.5506 ppb	18:44:44
3	Sc 361.383	1531662.1	1531662.1	91.564 %		18:44:46
3	Sc RADIAL	139848.7	139848.7	95.9 %		18:43:42
3	Y 371.029	927170.5	927170.5	90.670 %		18:44:46
3	Ag 328.068†	5762.9	3326.8	0.5251 µg/L	0.5251 ppb	18:44:46
3	Al 396.153Radial†	2231390.2	2325648.7	507660 µg/L	507660 ppb	18:43:40
3	As 188.979†	-103.4	-98.7	0.8735 µg/L	0.8735 ppb	18:45:06
3	B 249.677†	3235.4	177.8	2.9710 µg/L	2.9710 ppb	18:44:46
3	Ba 233.527†	402.4	614.5	0.4137 µg/L	0.4137 ppb	18:45:06
3	Be 313.107†	-678.3	-80.7	-0.0209 µg/L	-0.0209 ppb	18:44:46
3	Ca 317.933Radial†	7787439.6	8115669.6	475540 µg/L	475540 ppb	18:43:40
3	Cd 226.502†	2245.5	2546.8	-2.1709 µg/L	-2.1709 ppb	18:45:06
3	Co 228.616†	93.2	278.4	-5.9871 µg/L	-5.9871 ppb	18:45:06
3	Cr 267.716†	275.9	141.1	1.8999 µg/L	1.8999 ppb	18:45:06
3	Cu 324.752†	-6732.3	-9777.4	-2.2074 µg/L	-2.2074 ppb	18:44:46
3	Fe 238.204 Radial†	2711795.4	2826195.2	187900 µg/L	187900 ppb	18:43:40
3	K 766.490 Radial†	1584.0	195.9	-158.63 µg/L	-158.63 ppb	18:43:42
3	Mg 279.077 IEC†	1112495.6	1159287.1	477830 µg/L	477830 ppb	18:43:40
3	Mn 257.610†	14462.2	15714.6	2.0242 µg/L	2.0242 ppb	18:44:46
3	Mo 202.031†	-593.4	-592.8	-2.5422 µg/L	-2.5422 ppb	18:44:46
3	Na 589.592 Radial†	1732.7	111.2	16.939 µg/L	16.939 ppb	18:43:42
3	Ni 231.604†	209.1	269.3	3.4450 µg/L	3.4450 ppb	18:45:06
3	P 214.914†	118.4	49.8	-2.8056 µg/L	-2.8056 ppb	18:45:06
3	Pb 220.353†	-264.9	-401.8	1.0704 µg/L	1.0704 ppb	18:45:06
3	S 181.975 Axial†	171.3	92.2	74.546 µg/L	74.546 ppb	18:45:06
3	Sb 206.836†	101.8	24.6	-2.6986 µg/L	-2.6986 ppb	18:45:06
3	Se 196.026†	-151.8	-176.7	-4.70 µg/L	-4.70 ppb	18:45:06
3	SiO2†	1457.7	19.2	2.6178 µg/L	2.6178 ppb	18:45:06
3	Si 251.611†	375.6	-266.2	-4.1555 µg/L	-4.1555 ppb	18:45:06
3	Sn 189.927†	9.2	8.1	0.6527 µg/L	0.6527 ppb	18:45:06
3	Sr 421.552†	1404.5	1741.8	0.3601 µg/L	0.3601 ppb	18:43:42
3	Ti 334.940†	21500.8	22845.3	-3.2450 µg/L	-3.2450 ppb	18:44:46
3	Tl 190.801†	-148.3	-41.6	-5.0807 µg/L	-5.0807 ppb	18:45:06
3	U 409.014†	-176.5	286.3	-2.6068 µg/L	-2.6068 ppb	18:44:46
3	V 292.402†	5753.1	5851.3	2.3911 µg/L	2.3911 ppb	18:44:46
3	Zn 213.857†	3845.3	3735.2	7.5699 µg/L	7.5699 ppb	18:45:06

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1528050.7	91.348 %	0.4188			0.46%
Sc RADIAL	138947.9	95.3 %	0.74			0.78%
Y 371.029	925012.6	90.459 %	0.4287			0.47%
Ag 328.068†	3384.5	0.6825 µg/L	0.48505	0.6825 ppb	0.48505	71.07%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	2338939.1	510560 µg/L	3708.4	510560 ppb	3708.4	0.73%
QC value within limits for Al 396.153Radial Recovery = 102.11%						
As 188.979†	-90.7	4.5059 µg/L	3.62830	4.5059 ppb	3.62830	80.52%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	100.2	1.6697 µg/L	1.74948	1.6697 ppb	1.74948	104.78%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	634.8	0.4903 µg/L	0.08415	0.4903 ppb	0.08415	17.16%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-125.5	-0.0308 µg/L	0.04321	-0.0308 ppb	0.04321	140.33%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	8168738.7	478650 µg/L	3578.1	478650 ppb	3578.1	0.75%
QC value within limits for Ca 317.933Radial Recovery = 95.73%						
Cd 226.502†	2552.7	-2.2661 µg/L	0.10379	-2.2661 ppb	0.10379	4.58%
QC value within limits for Cd 226.502 Recovery = Not calculated						

Co 228.616†	262.7	-6.2685 µg/L	0.24520	-6.2685 ppb	0.24520	3.91%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	142.2	1.9019 µg/L	0.29723	1.9019 ppb	0.29723	15.63%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-9898.7	-2.4469 µg/L	0.21446	-2.4469 ppb	0.21446	8.76%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	2845578.2	189180 µg/L	1461.8	189180 ppb	1461.8	0.77%
QC value within limits for Fe 238.204 Radial Recovery = 94.59%						
K 766.490 Radial†	202.5	-157.40 µg/L	14.790	-157.40 ppb	14.790	9.40%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	1167142.7	481060 µg/L	3456.9	481060 ppb	3456.9	0.72%
QC value within limits for Mg 279.077 IEC Recovery = 96.21%						
Mn 257.610†	15855.5	2.0849 µg/L	0.06170	2.0849 ppb	0.06170	2.96%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-529.7	-0.4405 µg/L	1.82378	-0.4405 ppb	1.82378	414.05%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	82.1	12.489 µg/L	6.2157	12.489 ppb	6.2157	49.77%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	226.0	2.8914 µg/L	0.48079	2.8914 ppb	0.48079	16.63%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	56.3	-1.5033 µg/L	5.81883	-1.5033 ppb	5.81883	387.07%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-405.4	0.9827 µg/L	1.49074	0.9827 ppb	1.49074	151.70%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	91.0	73.605 µg/L	1.8528	73.605 ppb	1.8528	2.52%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	38.3	-0.8640 µg/L	2.19006	-0.8640 ppb	2.19006	253.47%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-175.4	-3.70 µg/L	2.618	-3.70 ppb	2.618	70.77%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	55.7	6.5518 µg/L	3.44005	6.5518 ppb	3.44005	52.51%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	-264.0	-4.1441 µg/L	0.06368	-4.1441 ppb	0.06368	1.54%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	6.1	0.5084 µg/L	0.83805	0.5084 ppb	0.83805	164.84%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	1722.4	0.2904 µg/L	0.06098	0.2904 ppb	0.06098	21.00%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	22603.3	-3.6809 µg/L	0.40375	-3.6809 ppb	0.40375	10.97%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-50.8	-6.3210 µg/L	1.39339	-6.3210 ppb	1.39339	22.04%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	537.8	12.740 µg/L	14.1197	12.740 ppb	14.1197	110.83%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	5735.0	1.5725 µg/L	0.98127	1.5725 ppb	0.98127	62.40%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	3758.3	7.6020 µg/L	0.07306	7.6020 ppb	0.07306	0.96%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 10

Sample ID: ICSAB

Analyst:

Logged In Analyst (Original) : optima4

Initial Sample Wt:

Dilution:

Autosampler Location: 104

Date Collected: 3/29/2010 18:45:15

Data Type: Reprocessed on 3/29/2010 19:14:39

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 361.383	1510684.4	1510684.4	90.310 %		18:46:21
1	Sc RADIAL	137128.2	137128.2	94.1 %		18:45:49
1	Y 371.029	915417.0	915417.0	89.520 %		18:46:21
1	Ag 328.068†	64579.9	68542.0	271.32 µg/L	271.32 ppb	18:46:21
1	Al 396.153Radial†	2257035.7	2399046.7	523660 µg/L	523660 ppb	18:45:45
1	As 188.979†	1040.4	1166.3	536.34 µg/L	536.34 ppb	18:46:23
1	B 249.677†	30637.0	30568.6	511.66 µg/L	511.66 ppb	18:46:21
1	Ba 233.527†	99072.5	109877.7	499.99 µg/L	499.99 ppb	18:46:21
1	Be 313.107†	681148.0	754892.4	245.89 µg/L	245.89 ppb	18:46:21
1	Ca 317.933Radial†	7888724.1	8384349.0	491290 µg/L	491290 ppb	18:45:45
1	Cd 226.502†	63574.5	70490.2	466.80 µg/L	466.80 ppb	18:46:21
1	Co 228.616†	29268.7	32585.7	436.71 µg/L	436.71 ppb	18:46:23
1	Cr 267.716†	51261.8	56601.7	486.64 µg/L	486.64 ppb	18:46:23
1	Cu 324.752†	105042.3	113888.0	536.82 µg/L	536.82 ppb	18:46:21
1	Fe 238.204 Radial†	2714615.2	2885265.2	191820 µg/L	191820 ppb	18:45:47
1	K 766.490 Radial†	14492.6	13949.3	5495.4 µg/L	5495.4 ppb	18:45:49
1	Mg 279.077 IEC†	1107607.9	1177095.4	485180 µg/L	485180 ppb	18:45:49
1	Mn 257.610†	329092.8	364323.1	478.08 µg/L	478.08 ppb	18:46:21
1	Mo 202.031†	13229.8	14704.5	480.80 µg/L	480.80 ppb	18:46:23
1	Na 589.592 Radial†	34394.1	34862.9	5329.4 µg/L	5329.4 ppb	18:45:49
1	Ni 231.604†	31853.0	35311.6	451.68 µg/L	451.68 ppb	18:46:23
1	P 214.914†	9576.1	10524.0	2499.6 µg/L	2499.6 ppb	18:46:23
1	Pb 220.353†	6597.4	7192.9	463.36 µg/L	463.36 ppb	18:46:23
1	S 181.975 Axial†	3009.0	3237.0	2626.5 µg/L	2626.5 ppb	18:46:23
1	Sb 206.836†	3499.0	3787.8	505.98 µg/L	505.98 ppb	18:46:23
1	Se 196.026†	5309.9	5868.7	2390 µg/L	2390 ppb	18:46:23
1	SiO2†	92256.7	100582.6	10974 µg/L	10974 ppb	18:46:21
1	Si 251.611†	281270.8	310773.6	5129.3 µg/L	5129.3 ppb	18:46:21
1	Sn 189.927†	6022.0	6666.1	475.68 µg/L	475.68 ppb	18:46:23
1	Sr 421.552†	210049.1	223540.3	520.07 µg/L	520.07 ppb	18:45:49
1	Ti 334.940†	468269.2	517876.1	500.97 µg/L	500.97 ppb	18:46:21
1	Tl 190.801†	2818.9	3241.7	443.45 µg/L	443.45 ppb	18:46:23
1	U 409.014†	7133.6	8378.1	528.93 µg/L	528.93 ppb	18:46:21
1	V 292.402†	88326.4	97371.6	516.38 µg/L	516.38 ppb	18:46:21
1	Zn 213.857†	72620.0	79947.4	483.88 µg/L	483.88 ppb	18:46:21
2	Sc 361.383	1518034.6	1518034.6	90.750 %		18:46:26
2	Sc RADIAL	136837.3	136837.3	93.9 %		18:45:56
2	Y 371.029	919619.6	919619.6	89.931 %		18:46:26
2	Ag 328.068†	64494.6	68101.8	269.69 µg/L	269.69 ppb	18:46:26
2	Al 396.153Radial†	2229777.5	2375110.8	518440 µg/L	518440 ppb	18:45:52
2	As 188.979†	1016.8	1134.7	522.67 µg/L	522.67 ppb	18:46:28
2	B 249.677†	30917.4	30713.3	514.09 µg/L	514.09 ppb	18:46:26
2	Ba 233.527†	99392.7	109699.3	499.19 µg/L	499.19 ppb	18:46:26
2	Be 313.107†	684598.1	755042.2	245.93 µg/L	245.93 ppb	18:46:26
2	Ca 317.933Radial†	7784991.4	8291677.2	485860 µg/L	485860 ppb	18:45:52
2	Cd 226.502†	63805.9	70404.3	466.38 µg/L	466.38 ppb	18:46:26
2	Co 228.616†	29275.9	32436.7	434.76 µg/L	434.76 ppb	18:46:28
2	Cr 267.716†	50741.5	55753.6	479.35 µg/L	479.35 ppb	18:46:28
2	Cu 324.752†	105439.6	113762.6	535.91 µg/L	535.91 ppb	18:46:26
2	Fe 238.204 Radial†	2684811.7	2859651.8	190120 µg/L	190120 ppb	18:45:54
2	K 766.490 Radial†	14227.4	13699.5	5395.1 µg/L	5395.1 ppb	18:45:56
2	Mg 279.077 IEC†	1095117.9	1166293.6	480720 µg/L	480720 ppb	18:45:56
2	Mn 257.610†	330574.5	364191.4	478.08 µg/L	478.08 ppb	18:46:26
2	Mo 202.031†	13322.6	14735.9	481.64 µg/L	481.64 ppb	18:46:28
2	Na 589.592 Radial†	34233.3	34769.4	5315.2 µg/L	5315.2 ppb	18:45:56
2	Ni 231.604†	31592.4	34853.7	445.82 µg/L	445.82 ppb	18:46:28
2	P 214.914†	9407.5	10286.9	2442.8 µg/L	2442.8 ppb	18:46:28
2	Pb 220.353†	6453.4	6998.8	451.34 µg/L	451.34 ppb	18:46:28

2	S 181.975 Axial†	2940.7	3145.6	2552.4 µg/L	2552.4 ppb	18:46:28
2	Sb 206.836†	3475.9	3743.6	500.18 µg/L	500.18 ppb	18:46:28
2	Se 196.026†	5145.8	5659.4	2310 µg/L	2310 ppb	18:46:28
2	SiO2†	92799.3	100685.9	10985 µg/L	10985 ppb	18:46:26
2	Si 251.611†	282521.5	310643.8	5127.1 µg/L	5127.1 ppb	18:46:26
2	Sn 189.927†	5996.0	6605.2	471.35 µg/L	471.35 ppb	18:46:28
2	Sr 421.552†	208807.5	222692.2	518.13 µg/L	518.13 ppb	18:45:56
2	Ti 334.940†	470515.6	517840.9	501.16 µg/L	501.16 ppb	18:46:26
2	Tl 190.801†	2878.3	3292.0	450.21 µg/L	450.21 ppb	18:46:28
2	U 409.014†	7163.0	8372.3	528.73 µg/L	528.73 ppb	18:46:26
2	V 292.402†	88754.8	97370.2	516.63 µg/L	516.63 ppb	18:46:26
2	Zn 213.857†	72903.7	79870.6	483.58 µg/L	483.58 ppb	18:46:26
3	Sc 361.383	1509678.5	1509678.5	90.250 %		18:46:31
3	Sc RADIAL	138373.5	138373.5	94.9 %		18:46:03
3	Y 371.029	914674.1	914674.1	89.448 %		18:46:31
3	Ag 328.068†	64587.4	68598.0	271.77 µg/L	271.77 ppb	18:46:31
3	Al 396.153Radial†	2250390.9	2370456.7	517420 µg/L	517420 ppb	18:45:58
3	As 188.979†	1006.1	1129.0	520.40 µg/L	520.40 ppb	18:46:33
3	B 249.677†	30857.6	30835.5	516.13 µg/L	516.13 ppb	18:46:31
3	Ba 233.527†	99227.6	110122.6	501.13 µg/L	501.13 ppb	18:46:31
3	Be 313.107†	682431.3	756816.9	246.51 µg/L	246.51 ppb	18:46:31
3	Ca 317.933Radial†	7834035.4	8251280.0	483490 µg/L	483490 ppb	18:45:58
3	Cd 226.502†	63517.1	70473.5	466.87 µg/L	466.87 ppb	18:46:31
3	Co 228.616†	29487.3	32849.5	440.42 µg/L	440.42 ppb	18:46:33
3	Cr 267.716†	51368.6	56757.9	487.95 µg/L	487.95 ppb	18:46:33
3	Cu 324.752†	105432.6	114397.9	538.71 µg/L	538.71 ppb	18:46:31
3	Fe 238.204 Radial†	2714742.3	2859431.1	190100 µg/L	190100 ppb	18:46:01
3	K 766.490 Radial†	14507.9	13826.8	5448.0 µg/L	5448.0 ppb	18:46:03
3	Mg 279.077 IEC†	1111196.5	1170280.1	482370 µg/L	482370 ppb	18:46:03
3	Mn 257.610†	329292.9	364787.6	478.83 µg/L	478.83 ppb	18:46:31
3	Mo 202.031†	13311.3	14804.5	483.83 µg/L	483.83 ppb	18:46:33
3	Na 589.592 Radial†	34668.7	34823.2	5323.3 µg/L	5323.3 ppb	18:46:03
3	Ni 231.604†	31996.5	35494.2	454.01 µg/L	454.01 ppb	18:46:33
3	P 214.914†	9605.6	10563.7	2508.9 µg/L	2508.9 ppb	18:46:33
3	Pb 220.353†	6567.4	7164.5	461.32 µg/L	461.32 ppb	18:46:33
3	S 181.975 Axial†	2974.8	3201.4	2597.7 µg/L	2597.7 ppb	18:46:33
3	Sb 206.836†	3463.3	3750.8	501.08 µg/L	501.08 ppb	18:46:33
3	Se 196.026†	5291.7	5852.5	2380 µg/L	2380 ppb	18:46:33
3	SiO2†	92489.2	100908.3	11009 µg/L	11009 ppb	18:46:31
3	Si 251.611†	281639.3	311389.5	5139.4 µg/L	5139.4 ppb	18:46:31
3	Sn 189.927†	6087.5	6743.1	481.17 µg/L	481.17 ppb	18:46:33
3	Sr 421.552†	210738.5	222257.1	517.13 µg/L	517.13 ppb	18:46:03
3	Ti 334.940†	470683.6	520896.9	504.08 µg/L	504.08 ppb	18:46:31
3	Tl 190.801†	2864.6	3294.4	450.54 µg/L	450.54 ppb	18:46:33
3	U 409.014†	7145.1	8396.1	530.14 µg/L	530.14 ppb	18:46:31
3	V 292.402†	88390.3	97507.5	517.45 µg/L	517.45 ppb	18:46:31
3	Zn 213.857†	72542.0	79914.6	483.81 µg/L	483.81 ppb	18:46:31

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1512799.2	90.437 %	0.2727			0.30%
Sc RADIAL	137446.3	94.3 %	0.56			0.59%
Y 371.029	916570.2	89.633 %	0.2608			0.29%
Ag 328.068†	68413.9	270.93 µg/L	1.098	270.93 ppb	1.098	0.41%
QC value within limits for Ag 328.068 Recovery = 108.37%						
Al 396.153Radial†	2381538.1	519840 µg/L	3348.7	519840 ppb	3348.7	0.64%
QC value within limits for Al 396.153Radial Recovery = 103.97%						
As 188.979†	1143.3	526.47 µg/L	8.621	526.47 ppb	8.621	1.64%
QC value within limits for As 188.979 Recovery = 105.29%						
B 249.677†	30705.8	513.96 µg/L	2.238	513.96 ppb	2.238	0.44%
QC value within limits for B 249.677 Recovery = 102.79%						
Ba 233.527†	109899.8	500.10 µg/L	0.973	500.10 ppb	0.973	0.19%
QC value within limits for Ba 233.527 Recovery = 100.02%						
Be 313.107†	755583.8	246.11 µg/L	0.349	246.11 ppb	0.349	0.14%
QC value within limits for Be 313.107 Recovery = 98.44%						
Ca 317.933Radial†	8309102.1	486880 µg/L	3997.7	486880 ppb	3997.7	0.82%
QC value within limits for Ca 317.933Radial Recovery = 97.38%						
Cd 226.502†	70456.0	466.68 µg/L	0.262	466.68 ppb	0.262	0.06%
QC value within limits for Cd 226.502 Recovery = 93.34%						

Co 228.616†	32623.9	437.30 µg/L	2.873	437.30 ppb	2.873	0.66%
QC value within limits for Co 228.616 Recovery = 87.46%						
Cr 267.716†	56371.1	484.65 µg/L	4.635	484.65 ppb	4.635	0.96%
QC value within limits for Cr 267.716 Recovery = 96.93%						
Cu 324.752†	114016.2	537.15 µg/L	1.432	537.15 ppb	1.432	0.27%
QC value within limits for Cu 324.752 Recovery = 107.43%						
Fe 238.204 Radial†	2868116.0	190680 µg/L	987.4	190680 ppb	987.4	0.52%
QC value within limits for Fe 238.204 Radial Recovery = 95.34%						
K 766.490 Radial†	13825.2	5446.2 µg/L	50.18	5446.2 ppb	50.18	0.92%
QC value within limits for K 766.490 Radial Recovery = 108.92%						
Mg 279.077 IEC†	1171223.1	482760 µg/L	2251.4	482760 ppb	2251.4	0.47%
QC value within limits for Mg 279.077 IEC Recovery = 96.55%						
Mn 257.610†	364434.0	478.33 µg/L	0.433	478.33 ppb	0.433	0.09%
QC value within limits for Mn 257.610 Recovery = 95.67%						
Mo 202.031†	14748.3	482.09 µg/L	1.569	482.09 ppb	1.569	0.33%
QC value within limits for Mo 202.031 Recovery = 96.42%						
Na 589.592 Radial†	34818.5	5322.6 µg/L	7.14	5322.6 ppb	7.14	0.13%
QC value within limits for Na 589.592 Radial Recovery = 106.45%						
Ni 231.604†	35219.8	450.50 µg/L	4.221	450.50 ppb	4.221	0.94%
QC value within limits for Ni 231.604 Recovery = 90.10%						
P 214.914†	10458.2	2483.8 µg/L	35.79	2483.8 ppb	35.79	1.44%
QC value within limits for P 214.914 Recovery = 99.35%						
Pb 220.353†	7118.7	458.68 µg/L	6.431	458.68 ppb	6.431	1.40%
QC value within limits for Pb 220.353 Recovery = 91.74%						
S 181.975 Axial†	3194.7	2592.2 µg/L	37.32	2592.2 ppb	37.32	1.44%
QC value within limits for S 181.975 Axial Recovery = 103.69%						
Sb 206.836†	3760.7	502.41 µg/L	3.120	502.41 ppb	3.120	0.62%
QC value within limits for Sb 206.836 Recovery = 100.48%						
Se 196.026†	5793.5	2360 µg/L	46.2	2360 ppb	46.2	1.96%
QC value within limits for Se 196.026 Recovery = 94.33%						
SiO2†	100725.6	10989 µg/L	18.1	10989 ppb	18.1	0.16%
QC value within limits for SiO2 Recovery = 102.75%						
Si 251.611†	310935.6	5131.9 µg/L	6.54	5131.9 ppb	6.54	0.13%
QC value within limits for Si 251.611 Recovery = 102.64%						
Sn 189.927†	6671.5	476.07 µg/L	4.919	476.07 ppb	4.919	1.03%
QC value within limits for Sn 189.927 Recovery = 95.21%						
Sr 421.552†	222829.9	518.44 µg/L	1.498	518.44 ppb	1.498	0.29%
QC value within limits for Sr 421.552 Recovery = 103.69%						
Ti 334.940†	518871.3	502.07 µg/L	1.741	502.07 ppb	1.741	0.35%
QC value within limits for Ti 334.940 Recovery = 100.41%						
Tl 190.801†	3276.0	448.07 µg/L	4.004	448.07 ppb	4.004	0.89%
QC value within limits for Tl 190.801 Recovery = 89.61%						
U 409.014†	8382.2	529.27 µg/L	0.763	529.27 ppb	0.763	0.14%
QC value within limits for U 409.014 Recovery = 105.85%						
V 292.402†	97416.4	516.82 µg/L	0.558	516.82 ppb	0.558	0.11%
QC value within limits for V 292.402 Recovery = 103.36%						
Zn 213.857†	79910.9	483.76 µg/L	0.156	483.76 ppb	0.156	0.03%
QC value within limits for Zn 213.857 Recovery = 96.75%						

All analyte(s) passed QC.

Sequence No.: 11

Sample ID: LR1

Analyst:

Logged In Analyst (Original) : optima4

Initial Sample Wt:

Dilution:

Autosampler Location: 105

Date Collected: 3/29/2010 18:46:42

Data Type: Reprocessed on 3/29/2010 19:14:40

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 361.383	1475217.1	1475217.1	88.190 %		18:47:41
1	Sc RADIAL	134988.0	134988.0	92.6 %		18:47:14
1	Y 371.029	890652.0	890652.0	87.098 %		18:47:41
1	Ag 328.068†	2600.2	-18.7	4.2300 µg/L	4.2300 ppb	18:47:41
1	Al 396.153Radial†	2173247.9	2346612.0	512240 µg/L	512240 ppb	18:47:12
1	As 188.979†	-221.7	-237.2	2.3463 µg/L	2.3463 ppb	18:47:43
1	B 249.677†	3640.1	771.9	12.918 µg/L	12.918 ppb	18:47:41
1	Ba 233.527†	451.6	687.2	-2.6252 µg/L	-2.6252 ppb	18:47:43
1	Be 313.107†	-13095.3	-14188.9	-0.0322 µg/L	-0.0322 ppb	18:47:41
1	Ca 317.933Radial†	7559025.2	8161296.1	478220 µg/L	478220 ppb	18:47:12
1	Cd 226.502†	5610.9	6456.7	-2.9745 µg/L	-2.9745 ppb	18:47:43
1	Co 228.616†	613.3	872.0	-11.650 µg/L	-11.650 ppb	18:47:43
1	Cr 267.716†	908.0	869.3	5.4318 µg/L	5.4318 ppb	18:47:43
1	Cu 324.752†	-17506.0	-22275.2	-5.5587 µg/L	-5.5587 ppb	18:47:43
1	Fe 238.204 Radial†	6300456.2	6802850.0	452280 µg/L	452280 ppb	18:47:12
1	K 766.490 Radial†	1898.7	595.1	-78.007 µg/L	-78.007 ppb	18:47:14
1	Mg 279.077 IEC†	1069506.5	1154620.7	475670 µg/L	475670 ppb	18:47:12
1	Mn 257.610†	14951.4	16873.6	2.9939 µg/L	2.9939 ppb	18:47:41
1	Mo 202.031†	-853.5	-912.6	-2.2055 µg/L	-2.2055 ppb	18:47:41
1	Na 589.592 Radial†	3064907.6	3307661.5	506110 µg/L	506110 ppb	18:47:12
1	Ni 231.604†	241.8	315.0	4.0298 µg/L	4.0298 ppb	18:47:43
1	P 214.914†	851.2	885.7	19.361 µg/L	19.361 ppb	18:47:43
1	Pb 220.353†	111.2	13.7	6.6643 µg/L	6.6643 ppb	18:47:43
1	S 181.975 Axial†	199.5	131.4	106.18 µg/L	106.18 ppb	18:47:43
1	Sb 206.836†	173.5	110.1	5.3162 µg/L	5.3162 ppb	18:47:43
1	Se 196.026†	-269.6	-316.6	46.3 µg/L	46.3 ppb	18:47:43
1	SiO2†	1875.2	553.5	61.247 µg/L	61.247 ppb	18:47:43
1	Si 251.611†	-2234.1	-3209.7	-52.717 µg/L	-52.717 ppb	18:47:43
1	Sn 189.927†	58.5	64.3	4.6670 µg/L	4.6670 ppb	18:47:43
1	Sr 421.552†	4787.3	5447.1	9.0235 µg/L	9.0235 ppb	18:47:14
1	Ti 334.940†	25472.1	28246.9	-3.7159 µg/L	-3.7159 ppb	18:47:41
1	Tl 190.801†	-294.1	-213.1	-27.836 µg/L	-27.836 ppb	18:47:43
1	U 409.014†	216123.9	245545.7	15094 µg/L	15094 ppb	18:47:41
1	V 292.402†	10776.3	11787.7	3.3989 µg/L	3.3989 ppb	18:47:43
1	Zn 213.857†	7832.8	8417.4	9.2023 µg/L	9.2023 ppb	18:47:43
2	Sc 361.383	1474797.5	1474797.5	88.165 %		18:47:46
2	Sc RADIAL	136487.8	136487.8	93.6 %		18:47:19
2	Y 371.029	890090.9	890090.9	87.044 %		18:47:46
2	Ag 328.068†	2591.0	-28.2	4.2336 µg/L	4.2336 ppb	18:47:46
2	Al 396.153Radial†	2181204.6	2329323.3	508460 µg/L	508460 ppb	18:47:17
2	As 188.979†	-251.7	-271.3	-12.460 µg/L	-12.460 ppb	18:47:48
2	B 249.677†	3729.3	874.2	14.628 µg/L	14.628 ppb	18:47:46
2	Ba 233.527†	527.6	773.5	-2.2009 µg/L	-2.2009 ppb	18:47:48
2	Be 313.107†	-13474.2	-14622.9	-0.1807 µg/L	-0.1807 ppb	18:47:46
2	Ca 317.933Radial†	7600178.4	8115555.5	475540 µg/L	475540 ppb	18:47:17
2	Cd 226.502†	5683.2	6540.6	-2.1393 µg/L	-2.1393 ppb	18:47:48
2	Co 228.616†	752.5	1030.1	-9.3590 µg/L	-9.3590 ppb	18:47:48
2	Cr 267.716†	724.6	661.7	3.6080 µg/L	3.6080 ppb	18:47:48
2	Cu 324.752†	-17459.2	-22227.9	-5.7811 µg/L	-5.7811 ppb	18:47:48
2	Fe 238.204 Radial†	6336284.1	6766355.5	449850 µg/L	449850 ppb	18:47:17
2	K 766.490 Radial†	1981.3	660.8	-49.077 µg/L	-49.077 ppb	18:47:19
2	Mg 279.077 IEC†	1076643.1	1149552.1	473590 µg/L	473590 ppb	18:47:17
2	Mn 257.610†	15045.5	16985.2	3.2356 µg/L	3.2356 ppb	18:47:46
2	Mo 202.031†	-881.3	-944.4	-3.3453 µg/L	-3.3453 ppb	18:47:46
2	Na 589.592 Radial†	3084400.4	3292112.6	503740 µg/L	503740 ppb	18:47:17
2	Ni 231.604†	341.9	428.7	5.4833 µg/L	5.4833 ppb	18:47:48
2	P 214.914†	888.6	928.3	30.390 µg/L	30.390 ppb	18:47:48
2	Pb 220.353†	63.3	-40.6	3.2317 µg/L	3.2317 ppb	18:47:48

2	S 181.975 Axial†	169.7	97.6	78.843 µg/L	78.843 ppb	18:47:48
2	Sb 206.836†	95.2	21.4	-6.5888 µg/L	-6.5888 ppb	18:47:48
2	Se 196.026†	-403.3	-468.4	-14.6 µg/L	-14.6 ppb	18:47:48
2	SiO2†	1816.0	486.9	54.020 µg/L	54.020 ppb	18:47:48
2	Si 251.611†	-2084.7	-3041.0	-49.906 µg/L	-49.906 ppb	18:47:48
2	Sn 189.927†	43.9	47.8	3.4920 µg/L	3.4920 ppb	18:47:48
2	Sr 421.552†	4824.6	5430.1	9.0047 µg/L	9.0047 ppb	18:47:19
2	Ti 334.940†	25083.7	27814.6	-4.0459 µg/L	-4.0459 ppb	18:47:46
2	Tl 190.801†	-241.3	-153.4	-19.840 µg/L	-19.840 ppb	18:47:48
2	U 409.014†	215721.0	245158.5	15071 µg/L	15071 ppb	18:47:46
2	V 292.402†	10612.7	11605.5	2.7405 µg/L	2.7405 ppb	18:47:48
2	Zn 213.857†	7898.7	8494.6	9.8973 µg/L	9.8973 ppb	18:47:48
3	Sc 361.383	1482973.9	1482973.9	88.654 %		18:47:51
3	Sc RADIAL	135581.7	135581.7	93.0 %		18:47:23
3	Y 371.029	894893.3	894893.3	87.513 %		18:47:51
3	Ag 328.068†	2907.1	312.1	5.3159 µg/L	5.3159 ppb	18:47:51
3	Al 396.153Radial†	2198157.6	2363115.2	515840 µg/L	515840 ppb	18:47:21
3	As 188.979†	-166.7	-173.8	30.035 µg/L	30.035 ppb	18:47:53
3	B 249.677†	3819.0	952.0	15.940 µg/L	15.940 ppb	18:47:51
3	Ba 233.527†	467.2	702.0	-2.6283 µg/L	-2.6283 ppb	18:47:53
3	Be 313.107†	-13583.2	-14661.6	-0.1997 µg/L	-0.1997 ppb	18:47:51
3	Ca 317.933Radial†	7679845.3	8255440.6	483730 µg/L	483730 ppb	18:47:21
3	Cd 226.502†	5523.3	6324.6	-4.4547 µg/L	-4.4547 ppb	18:47:53
3	Co 228.616†	665.1	926.8	-11.181 µg/L	-11.181 ppb	18:47:53
3	Cr 267.716†	895.3	849.6	5.3942 µg/L	5.3942 ppb	18:47:53
3	Cu 324.752†	-17409.5	-22062.6	-3.6839 µg/L	-3.6839 ppb	18:47:53
3	Fe 238.204 Radial†	6403813.8	6884172.5	457680 µg/L	457680 ppb	18:47:21
3	K 766.490 Radial†	2077.2	778.0	-6.1386 µg/L	-6.1386 ppb	18:47:23
3	Mg 279.077 IEC†	1090892.1	1172554.0	483060 µg/L	483060 ppb	18:47:21
3	Mn 257.610†	15096.7	16948.9	2.7894 µg/L	2.7894 ppb	18:47:51
3	Mo 202.031†	-879.5	-936.8	-2.6225 µg/L	-2.6225 ppb	18:47:51
3	Na 589.592 Radial†	3116499.7	3348632.9	512380 µg/L	512380 ppb	18:47:21
3	Ni 231.604†	249.4	322.2	4.1219 µg/L	4.1219 ppb	18:47:53
3	P 214.914†	734.4	748.9	-16.245 µg/L	-16.245 ppb	18:47:53
3	Pb 220.353†	-96.4	-221.1	-7.4793 µg/L	-7.4793 ppb	18:47:53
3	S 181.975 Axial†	169.9	96.8	78.205 µg/L	78.205 ppb	18:47:53
3	Sb 206.836†	73.9	-3.3	-10.074 µg/L	-10.074 ppb	18:47:53
3	Se 196.026†	-324.5	-376.9	24.3 µg/L	24.3 ppb	18:47:53
3	SiO2†	1980.5	661.1	72.973 µg/L	72.973 ppb	18:47:53
3	Si 251.611†	-1826.1	-2736.2	-44.905 µg/L	-44.905 ppb	18:47:53
3	Sn 189.927†	110.7	122.9	8.8298 µg/L	8.8298 ppb	18:47:53
3	Sr 421.552†	4811.0	5449.9	8.9869 µg/L	8.9869 ppb	18:47:23
3	Ti 334.940†	25226.4	27818.7	-4.5924 µg/L	-4.5924 ppb	18:47:51
3	Tl 190.801†	-184.7	-88.0	-11.070 µg/L	-11.070 ppb	18:47:53
3	U 409.014†	216613.9	244816.6	15048 µg/L	15048 ppb	18:47:51
3	V 292.402†	10498.6	11410.5	0.4086 µg/L	0.4086 ppb	18:47:53
3	Zn 213.857†	7725.4	8249.7	7.5805 µg/L	7.5805 ppb	18:47:53

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1477662.9	88.336 %	0.2752			0.31%
Sc RADIAL	135685.8	93.1 %	0.52			0.56%
Y 371.029	891878.7	87.218 %	0.2568			0.29%
Ag 328.068†	88.4	4.5932 µg/L	0.62588	4.5932 ppb	0.62588	13.63%
Al 396.153Radial†	2346350.2	512180 µg/L	3688.5	512180 ppb	3688.5	0.72%
QC value within limits for Al 396.153Radial Recovery = 102.44%						
As 188.979†	-227.4	6.6405 µg/L	21.57070	6.6405 ppb	21.57070	324.83%
B 249.677†	866.1	14.495 µg/L	1.5153	14.495 ppb	1.5153	10.45%
Ba 233.527†	720.9	-2.4848 µg/L	0.24586	-2.4848 ppb	0.24586	9.89%
Be 313.107†	-14491.1	-0.1375 µg/L	0.09171	-0.1375 ppb	0.09171	66.68%
Ca 317.933Radial†	8177430.7	479160 µg/L	4179.3	479160 ppb	4179.3	0.87%
QC value within limits for Ca 317.933Radial Recovery = 95.83%						
Cd 226.502†	6440.6	-3.1895 µg/L	1.17255	-3.1895 ppb	1.17255	36.76%
Co 228.616†	943.0	-10.730 µg/L	1.2103	-10.730 ppb	1.2103	11.28%
Cr 267.716†	793.5	4.8113 µg/L	1.04230	4.8113 ppb	1.04230	21.66%
Cu 324.752†	-22188.5	-5.0079 µg/L	1.15199	-5.0079 ppb	1.15199	23.00%
Fe 238.204 Radial†	6817792.7	453270 µg/L	4009.8	453270 ppb	4009.8	0.88%
QC value within limits for Fe 238.204 Radial Recovery = 90.65%						
K 766.490 Radial†	678.0	-44.408 µg/L	36.1609	-44.408 ppb	36.1609	81.43%

Mg 279.077 IEC†	1158908.9	477440 µg/L	4979.6	477440 ppb	4979.6	1.04%
QC value within limits for Mg 279.077 IEC Recovery = 95.49%						
Mn 257.610†	16935.9	3.0063 µg/L	0.22334	3.0063 ppb	0.22334	7.43%
Mo 202.031†	-931.3	-2.7244 µg/L	0.57668	-2.7244 ppb	0.57668	21.17%
Na 589.592 Radial†	3316135.7	507410 µg/L	4467.6	507410 ppb	4467.6	0.88%
QC value within limits for Na 589.592 Radial Recovery = 101.48%						
Ni 231.604†	355.3	4.5450 µg/L	0.81388	4.5450 ppb	0.81388	17.91%
P 214.914†	854.3	11.169 µg/L	24.3729	11.169 ppb	24.3729	218.22%
Pb 220.353†	-82.7	0.8056 µg/L	7.37729	0.8056 ppb	7.37729	915.80%
S 181.975 Axial†	108.6	87.742 µg/L	15.9697	87.742 ppb	15.9697	18.20%
Sb 206.836†	42.7	-3.7822 µg/L	8.06989	-3.7822 ppb	8.06989	213.36%
Se 196.026†	-387.3	18.7 µg/L	30.84	18.7 ppb	30.84	165.04%
SiO2†	567.2	62.747 µg/L	9.5648	62.747 ppb	9.5648	15.24%
Si 251.611†	-2995.6	-49.176 µg/L	3.9567	-49.176 ppb	3.9567	8.05%
Sn 189.927†	78.3	5.6629 µg/L	2.80476	5.6629 ppb	2.80476	49.53%
Sr 421.552†	5442.4	9.0050 µg/L	0.01831	9.0050 ppb	0.01831	0.20%
Ti 334.940†	27960.1	-4.1181 µg/L	0.44268	-4.1181 ppb	0.44268	10.75%
Tl 190.801†	-151.5	-19.582 µg/L	8.3859	-19.582 ppb	8.3859	42.82%
U 409.014†	245173.6	15071 µg/L	23.1	15071 ppb	23.1	0.15%
QC value within limits for U 409.014 Recovery = 100.47%						
V 292.402†	11601.2	2.1827 µg/L	1.57124	2.1827 ppb	1.57124	71.99%
Zn 213.857†	8387.2	8.8934 µg/L	1.18890	8.8934 ppb	1.18890	13.37%

All analyte(s) passed QC.

Sequence No.: 12

Sample ID: LR2

Analyst:

Logged In Analyst (Original) : optima4

Initial Sample Wt:

Dilution:

Autosampler Location: 108

Date Collected: 3/29/2010 18:48:01

Data Type: Reprocessed on 3/29/2010 19:14:40

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 361.383	1698380.4	1698380.4	101.53 %		18:49:13
1	Sc RADIAL	151205.1	151205.1	104 %		18:48:34
1	Y 371.029	1017103.0	1017103.0	99.464 %		18:49:13
1	Ag 328.068†	-18686.1	-21371.4	31.131 µg/L	31.131 ppb	18:49:15
1	Al 396.153Radial†	2338.4	2286.0	66.356 µg/L	66.356 ppb	18:48:36
1	As 188.979†	24060.3	23711.8	10160 µg/L	10160 ppb	18:49:15
1	B 249.677†	302290.6	294377.4	4910.3 µg/L	4910.3 ppb	18:49:13
1	Ba 233.527†	3091920.0	3045479.3	13922 µg/L	13922 ppb	18:49:13
1	Be 313.107†	8967503.4	8832963.6	2875.2 µg/L	2875.2 ppb	18:49:09
1	Ca 317.933Radial†	1386.8	720.6	42.226 µg/L	42.226 ppb	18:48:36
1	Cd 226.502†	1391850.4	1370960.3	9471.5 µg/L	9471.5 ppb	18:49:13
1	Co 228.616†	680530.5	670447.0	9197.3 µg/L	9197.3 ppb	18:49:13
1	Cr 267.716†	2796482.2	2754160.4	23659 µg/L	23659 ppb	18:49:13
1	Cu 324.752†	4652514.4	4579945.2	19914 µg/L	19914 ppb	18:49:13
1	Fe 238.204 Radial†	-1093.2	-1167.1	-77.594 µg/L	-77.594 ppb	18:48:36
1	K 766.490 Radial†	735082.9	707128.4	291110 µg/L	291110 ppb	18:48:34
1	Mg 279.077 IEC†	-573.2	-739.2	-76.817 µg/L	-76.817 ppb	18:48:36
1	Mn 257.610†	6850554.7	6747191.3	9219.6 µg/L	9219.6 ppb	18:49:13
1	Mo 202.031†	299568.0	295106.7	9318.7 µg/L	9318.7 ppb	18:49:15
1	Na 589.592 Radial†	4106.1	2263.3	87.417 µg/L	87.417 ppb	18:48:36
1	Ni 231.604†	759020.4	747617.8	9562.9 µg/L	9562.9 ppb	18:49:13
1	P 214.914†	61793.1	60781.8	14324 µg/L	14324 ppb	18:49:15
1	Pb 220.353†	385088.4	379170.1	22997 µg/L	22997 ppb	18:49:13
1	S 181.975 Axial†	62300.3	61266.2	49715 µg/L	49715 ppb	18:49:15
1	Sb 206.836†	72365.8	71188.1	9412.3 µg/L	9412.3 ppb	18:49:15
1	Se 196.026†	23983.3	23610.8	9340 µg/L	9340 ppb	18:49:15
1	SiO2†	927224.5	911672.2	99243 µg/L	99243 ppb	18:49:13
1	Si 251.611†	2845330.8	2801756.4	46140 µg/L	46140 ppb	18:49:13
1	Sn 189.927†	135952.5	133900.7	9552.3 µg/L	9552.3 ppb	18:49:15
1	Sr 421.552†	4291141.6	4136725.5	9695.4 µg/L	9695.4 ppb	18:48:32
1	Ti 334.940†	9795412.6	9647094.3	9829.2 µg/L	9829.2 ppb	18:49:09
1	Tl 190.801†	68839.1	67921.6	9266.8 µg/L	9266.8 ppb	18:49:15
1	U 409.014†	-6352.9	-5778.0	247.84 µg/L	247.84 ppb	18:49:15
1	V 292.402†	1822287.8	1794382.0	10142 µg/L	10142 ppb	18:49:13
1	Zn 213.857†	2271454.5	2236744.1	14006 µg/L	14006 ppb	18:49:13
2	Sc 361.383	1692355.1	1692355.1	101.17 %		18:49:22
2	Sc RADIAL	148148.5	148148.5	102 %		18:48:40
2	Y 371.029	1013670.4	1013670.4	99.129 %		18:49:22
2	Ag 328.068†	-18902.0	-21650.3	30.241 µg/L	30.241 ppb	18:49:25
2	Al 396.153Radial†	2166.1	2162.9	32.480 µg/L	32.480 ppb	18:48:43
2	As 188.979†	24382.8	24114.9	10329 µg/L	10329 ppb	18:49:25
2	B 249.677†	301947.2	295098.0	4922.4 µg/L	4922.4 ppb	18:49:22
2	Ba 233.527†	3087006.8	3051465.1	13949 µg/L	13949 ppb	18:49:22
2	Be 313.107†	8888938.4	8786753.2	2860.1 µg/L	2860.1 ppb	18:49:19
2	Ca 317.933Radial†	1193.0	557.5	32.668 µg/L	32.668 ppb	18:48:43
2	Cd 226.502†	1387271.1	1371314.7	9474.0 µg/L	9474.0 ppb	18:49:22
2	Co 228.616†	679503.2	671817.9	9216.1 µg/L	9216.1 ppb	18:49:22
2	Cr 267.716†	2791317.7	2758861.8	23700 µg/L	23700 ppb	18:49:22
2	Cu 324.752†	4645173.2	4589003.5	19954 µg/L	19954 ppb	18:49:22
2	Fe 238.204 Radial†	-1141.0	-1235.9	-82.165 µg/L	-82.165 ppb	18:48:43
2	K 766.490 Radial†	723724.6	710573.4	292530 µg/L	292530 ppb	18:48:40
2	Mg 279.077 IEC†	-594.9	-771.9	-86.616 µg/L	-86.616 ppb	18:48:43
2	Mn 257.610†	6838819.1	6759613.7	9236.6 µg/L	9236.6 ppb	18:49:22
2	Mo 202.031†	303352.5	299897.9	9470.0 µg/L	9470.0 ppb	18:49:25
2	Na 589.592 Radial†	3886.9	2129.3	65.648 µg/L	65.648 ppb	18:48:43
2	Ni 231.604†	757365.3	748643.5	9576.0 µg/L	9576.0 ppb	18:49:22
2	P 214.914†	62941.1	62133.3	14647 µg/L	14647 ppb	18:49:25
2	Pb 220.353†	383628.9	379077.8	22992 µg/L	22992 ppb	18:49:22

2	S 181.975 Axial†	63093.2	62268.3	50529 µg/L	50529 ppb	18:49:25
2	Sb 206.836†	73391.6	72455.9	9585.2 µg/L	9585.2 ppb	18:49:25
2	Se 196.026†	24264.9	23973.2	9480 µg/L	9480 ppb	18:49:25
2	SiO2†	925612.2	913330.0	99418 µg/L	99418 ppb	18:49:22
2	Si 251.611†	2841383.2	2807831.9	46237 µg/L	46237 ppb	18:49:22
2	Sn 189.927†	137626.2	136031.8	9703.7 µg/L	9703.7 ppb	18:49:25
2	Sr 421.552†	4251704.3	4183270.4	9804.5 µg/L	9804.5 ppb	18:48:38
2	Ti 334.940†	9732958.3	9619711.2	9801.3 µg/L	9801.3 ppb	18:49:19
2	Tl 190.801†	69796.1	69108.9	9426.0 µg/L	9426.0 ppb	18:49:25
2	U 409.014†	-6518.6	-5964.1	237.63 µg/L	237.63 ppb	18:49:25
2	V 292.402†	1819682.2	1798196.6	10165 µg/L	10165 ppb	18:49:22
2	Zn 213.857†	2265596.7	2238919.2	14019 µg/L	14019 ppb	18:49:22
3	Sc 361.383	1700875.8	1700875.8	101.68 %		18:49:32
3	Sc RADIAL	149241.8	149241.8	102 %		18:48:47
3	Y 371.029	1018743.4	1018743.4	99.625 %		18:49:32
3	Ag 328.068†	-19043.0	-21695.4	29.614 µg/L	29.614 ppb	18:49:34
3	Al 396.153Radial†	2183.6	2164.5	34.118 µg/L	34.118 ppb	18:48:49
3	As 188.979†	24384.9	23996.2	10278 µg/L	10278 ppb	18:49:34
3	B 249.677†	302272.0	293922.3	4902.7 µg/L	4902.7 ppb	18:49:32
3	Ba 233.527†	3092416.4	3041499.6	13904 µg/L	13904 ppb	18:49:32
3	Be 313.107†	8907241.5	8760739.0	2851.7 µg/L	2851.7 ppb	18:49:28
3	Ca 317.933Radial†	1218.9	574.2	33.647 µg/L	33.647 ppb	18:48:49
3	Cd 226.502†	1391102.2	1368213.3	9452.5 µg/L	9452.5 ppb	18:49:32
3	Co 228.616†	681435.9	670354.0	9196.0 µg/L	9196.0 ppb	18:49:32
3	Cr 267.716†	2794875.2	2748538.9	23611 µg/L	23611 ppb	18:49:32
3	Cu 324.752†	4650199.8	4570945.8	19875 µg/L	19875 ppb	18:49:32
3	Fe 238.204 Radial†	-1251.6	-1335.7	-88.800 µg/L	-88.800 ppb	18:48:49
3	K 766.490 Radial†	729684.2	711177.7	292780 µg/L	292780 ppb	18:48:47
3	Mg 279.077 IEC†	-664.5	-835.6	-113.55 µg/L	-113.55 ppb	18:48:49
3	Mn 257.610†	6850008.1	6736754.4	9205.4 µg/L	9205.4 ppb	18:49:32
3	Mo 202.031†	303976.8	299009.8	9441.9 µg/L	9441.9 ppb	18:49:34
3	Na 589.592 Radial†	3504.7	1728.1	4.0327 µg/L	4.0327 ppb	18:48:49
3	Ni 231.604†	758972.5	746473.9	9548.3 µg/L	9548.3 ppb	18:49:32
3	P 214.914†	62994.4	61874.1	14586 µg/L	14586 ppb	18:49:34
3	Pb 220.353†	384992.3	378519.2	22958 µg/L	22958 ppb	18:49:32
3	S 181.975 Axial†	63225.2	62085.8	50381 µg/L	50381 ppb	18:49:34
3	Sb 206.836†	73461.5	72161.1	9546.2 µg/L	9546.2 ppb	18:49:34
3	Se 196.026†	24345.1	23931.9	9470 µg/L	9470 ppb	18:49:34
3	SiO2†	927967.0	911062.6	99172 µg/L	99172 ppb	18:49:32
3	Si 251.611†	2848954.5	2801208.6	46128 µg/L	46128 ppb	18:49:32
3	Sn 189.927†	137708.4	135431.2	9660.9 µg/L	9660.9 ppb	18:49:34
3	Sr 421.552†	4283363.5	4183546.2	9805.1 µg/L	9805.1 ppb	18:48:45
3	Ti 334.940†	9739101.8	9577559.1	9758.3 µg/L	9758.3 ppb	18:49:28
3	Tl 190.801†	69743.1	68711.1	9371.9 µg/L	9371.9 ppb	18:49:34
3	U 409.014†	-6372.0	-5787.7	246.22 µg/L	246.22 ppb	18:49:34
3	V 292.402†	1821804.8	1791273.7	10126 µg/L	10126 ppb	18:49:32
3	Zn 213.857†	2271404.4	2233412.6	13985 µg/L	13985 ppb	18:49:32

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1697203.7	101.46 %	0.262			0.26%
Sc RADIAL	149531.8	103 %	1.1			1.04%
Y 371.029	1016505.6	99.406 %	0.2532			0.25%
Ag 328.068†	-21572.4	30.328 µg/L	0.7622	30.328 ppb	0.7622	2.51%
Al 396.153Radial†	2204.5	44.318 µg/L	19.1029	44.318 ppb	19.1029	43.10%
As 188.979†	23941.0	10256 µg/L	86.9	10256 ppb	86.9	0.85%
QC value within limits for As 188.979 Recovery = 102.56%						
B 249.677†	294465.9	4911.8 µg/L	9.92	4911.8 ppb	9.92	0.20%
QC value within limits for B 249.677 Recovery = 98.24%						
Ba 233.527†	3046148.0	13925 µg/L	22.9	13925 ppb	22.9	0.16%
QC value within limits for Ba 233.527 Recovery = 92.83%						
Be 313.107†	8793485.2	2862.3 µg/L	11.91	2862.3 ppb	11.91	0.42%
QC value within limits for Be 313.107 Recovery = 95.41%						
Ca 317.933Radial†	617.5	36.181 µg/L	5.2587	36.181 ppb	5.2587	14.53%
Cd 226.502†	1370162.8	9466.0 µg/L	11.73	9466.0 ppb	11.73	0.12%
QC value within limits for Cd 226.502 Recovery = 94.66%						
Co 228.616†	670873.0	9203.1 µg/L	11.25	9203.1 ppb	11.25	0.12%
QC value within limits for Co 228.616 Recovery = 92.03%						
Cr 267.716†	2753853.7	23657 µg/L	44.4	23657 ppb	44.4	0.19%

QC value within limits for Cr 267.716 Recovery = 94.63%							
Cu 324.752†	4579964.8	19914 µg/L	39.3	19914 ppb	39.3	0.20%	
QC value within limits for Cu 324.752 Recovery = 99.57%							
Fe 238.204 Radial†	-1246.2	-82.853 µg/L	5.6347	-82.853 ppb	5.6347	6.80%	
K 766.490 Radial†	709626.5	292140 µg/L	899.3	292140 ppb	899.3	0.31%	
QC value within limits for K 766.490 Radial Recovery = 97.38%							
Mg 279.077 IEC†	-782.2	-92.329 µg/L	19.0229	-92.329 ppb	19.0229	20.60%	
Mn 257.610†	6747853.1	9220.5 µg/L	15.64	9220.5 ppb	15.64	0.17%	
QC value within limits for Mn 257.610 Recovery = 92.21%							
Mo 202.031†	298004.8	9410.2 µg/L	80.46	9410.2 ppb	80.46	0.86%	
QC value within limits for Mo 202.031 Recovery = 94.10%							
Na 589.592 Radial†	2040.3	52.366 µg/L	43.2497	52.366 ppb	43.2497	82.59%	
Ni 231.604†	747578.4	9562.4 µg/L	13.88	9562.4 ppb	13.88	0.15%	
QC value within limits for Ni 231.604 Recovery = 95.62%							
P 214.914†	61596.4	14519 µg/L	171.5	14519 ppb	171.5	1.18%	
QC value within limits for P 214.914 Recovery = 96.79%							
Pb 220.353†	378922.4	22983 µg/L	21.3	22983 ppb	21.3	0.09%	
QC value within limits for Pb 220.353 Recovery = 91.93%							
S 181.975 Axial†	61873.4	50208 µg/L	433.1	50208 ppb	433.1	0.86%	
QC value within limits for S 181.975 Axial Recovery = 100.42%							
Sb 206.836†	71935.0	9514.6 µg/L	90.66	9514.6 ppb	90.66	0.95%	
QC value within limits for Sb 206.836 Recovery = 95.15%							
Se 196.026†	23838.7	9430 µg/L	78.5	9430 ppb	78.5	0.83%	
QC value within limits for Se 196.026 Recovery = 94.29%							
SiO2†	912021.6	99278 µg/L	126.7	99278 ppb	126.7	0.13%	
QC value within limits for SiO2 Recovery = 92.78%							
Si 251.611†	2803599.0	46168 µg/L	59.8	46168 ppb	59.8	0.13%	
QC value within limits for Si 251.611 Recovery = 92.34%							
Sn 189.927†	135121.2	9639.0 µg/L	78.05	9639.0 ppb	78.05	0.81%	
QC value within limits for Sn 189.927 Recovery = 96.39%							
Sr 421.552†	4167847.3	9768.3 µg/L	63.17	9768.3 ppb	63.17	0.65%	
QC value within limits for Sr 421.552 Recovery = 97.68%							
Ti 334.940†	9614788.2	9796.3 µg/L	35.71	9796.3 ppb	35.71	0.36%	
QC value within limits for Ti 334.940 Recovery = 97.96%							
Tl 190.801†	68580.5	9354.9 µg/L	80.95	9354.9 ppb	80.95	0.87%	
QC value within limits for Tl 190.801 Recovery = 93.55%							
U 409.014†	-5843.2	243.90 µg/L	5.490	243.90 ppb	5.490	2.25%	
V 292.402†	1794617.4	10145 µg/L	19.6	10145 ppb	19.6	0.19%	
QC value within limits for V 292.402 Recovery = 101.45%							
Zn 213.857†	2236358.7	14003 µg/L	17.3	14003 ppb	17.3	0.12%	
QC value within limits for Zn 213.857 Recovery = 93.36%							

All analyte(s) passed QC.

Sequence No.: 13

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : optima4

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/29/2010 18:49:43

Data Type: Reprocessed on 3/29/2010 19:14:41

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 361.383	1716469.7	1716469.7	102.61	%		18:50:43
1	Sc RADIAL	154139.7	154139.7	106	%		18:50:16
1	Y 371.029	1044074.8	1044074.8	102.10	%		18:50:43
1	Ag 328.068†	127602.5	121387.1	498.79	µg/L	498.79 ppb	18:50:43
1	Al 396.153Radial†	24715.7	23403.0	5085.7	µg/L	5085.7 ppb	18:50:16
1	As 188.979†	1226.4	1209.4	512.57	µg/L	512.57 ppb	18:51:03
1	B 249.677†	33333.5	29129.3	487.34	µg/L	487.34 ppb	18:50:43
1	Ba 233.527†	111436.2	108774.4	497.32	µg/L	497.32 ppb	18:50:43
1	Be 313.107†	1573483.9	1534088.7	499.51	µg/L	499.51 ppb	18:50:43
1	Ca 317.933Radial†	90206.4	84682.8	4962.0	µg/L	4962.0 ppb	18:50:16
1	Cd 226.502†	72401.2	70652.6	487.60	µg/L	487.60 ppb	18:50:43
1	Co 228.616†	36477.3	35725.3	489.45	µg/L	489.45 ppb	18:50:43
1	Cr 267.716†	59006.8	57344.5	492.41	µg/L	492.41 ppb	18:50:43
1	Cu 324.752†	119200.3	113741.0	495.97	µg/L	495.97 ppb	18:50:43
1	Fe 238.204 Radial†	78399.3	74021.0	4921.2	µg/L	4921.2 ppb	18:50:16
1	K 766.490 Radial†	15543.8	13243.2	5447.9	µg/L	5447.9 ppb	18:50:16
1	Mg 279.077 IEC†	13152.3	12250.1	5058.7	µg/L	5058.7 ppb	18:50:16
1	Mn 257.610†	370669.7	361153.8	493.28	µg/L	493.28 ppb	18:50:43
1	Mo 202.031†	15969.2	15617.9	493.45	µg/L	493.45 ppb	18:51:03
1	Na 589.592 Radial†	70596.7	65061.3	9950.4	µg/L	9950.4 ppb	18:50:16
1	Ni 231.604†	39349.5	38388.8	491.04	µg/L	491.04 ppb	18:50:43
1	P 214.914†	10515.6	10168.3	2426.7	µg/L	2426.7 ppb	18:51:03
1	Pb 220.353†	8561.1	8230.7	500.15	µg/L	500.15 ppb	18:51:03
1	S 181.975 Axial†	1372.2	1242.5	1010.8	µg/L	1010.8 ppb	18:51:03
1	Sb 206.836†	3825.6	3641.6	492.37	µg/L	492.37 ppb	18:51:03
1	Se 196.026†	1275.8	1232.4	490	µg/L	490 ppb	18:51:03
1	SiO2†	51362.9	48482.5	5278.0	µg/L	5278.0 ppb	18:50:43
1	Si 251.611†	154098.4	149499.2	2462.1	µg/L	2462.1 ppb	18:50:43
1	Sn 189.927†	7147.3	6963.3	496.69	µg/L	496.69 ppb	18:51:03
1	Sr 421.552†	225096.8	213129.1	499.48	µg/L	499.48 ppb	18:50:14
1	Ti 334.940†	496998.7	483710.6	492.59	µg/L	492.59 ppb	18:50:43
1	Tl 190.801†	3658.8	3685.9	502.16	µg/L	502.16 ppb	18:51:03
1	U 409.014†	7304.5	7597.6	499.58	µg/L	499.58 ppb	18:50:43
1	V 292.402†	91666.3	88901.0	499.43	µg/L	499.43 ppb	18:50:43
1	Zn 213.857†	80718.2	78199.0	488.38	µg/L	488.38 ppb	18:50:43
2	Sc 361.383	1735506.8	1735506.8	103.75	%		18:51:06
2	Sc RADIAL	152000.4	152000.4	104	%		18:50:20
2	Y 371.029	1054226.6	1054226.6	103.09	%		18:51:06
2	Ag 328.068†	129107.7	121473.9	499.12	µg/L	499.12 ppb	18:51:06
2	Al 396.153Radial†	24426.5	23454.6	5097.3	µg/L	5097.3 ppb	18:50:20
2	As 188.979†	1211.7	1182.2	501.18	µg/L	501.18 ppb	18:51:26
2	B 249.677†	33876.9	29296.7	490.15	µg/L	490.15 ppb	18:51:06
2	Ba 233.527†	112976.1	109067.5	498.66	µg/L	498.66 ppb	18:51:06
2	Be 313.107†	1597015.9	1539949.6	501.42	µg/L	501.42 ppb	18:51:06
2	Ca 317.933Radial†	89516.0	85221.3	4993.6	µg/L	4993.6 ppb	18:50:20
2	Cd 226.502†	73594.6	71028.9	490.19	µg/L	490.19 ppb	18:51:06
2	Co 228.616†	37103.5	35939.0	492.37	µg/L	492.37 ppb	18:51:06
2	Cr 267.716†	59788.6	57467.2	493.47	µg/L	493.47 ppb	18:51:06
2	Cu 324.752†	121059.6	114258.9	498.22	µg/L	498.22 ppb	18:51:06
2	Fe 238.204 Radial†	77655.1	74350.7	4943.1	µg/L	4943.1 ppb	18:50:20
2	K 766.490 Radial†	15260.2	13178.1	5421.1	µg/L	5421.1 ppb	18:50:20
2	Mg 279.077 IEC†	13002.7	12281.7	5071.5	µg/L	5071.5 ppb	18:50:20
2	Mn 257.610†	375944.4	362275.4	494.81	µg/L	494.81 ppb	18:51:06
2	Mo 202.031†	15890.3	15371.2	485.66	µg/L	485.66 ppb	18:51:26
2	Na 589.592 Radial†	70215.3	65635.2	10038	µg/L	10038 ppb	18:50:20
2	Ni 231.604†	40047.6	38641.0	494.26	µg/L	494.26 ppb	18:51:06
2	P 214.914†	10471.7	10013.6	2389.6	µg/L	2389.6 ppb	18:51:26
2	Pb 220.353†	8484.3	8065.2	490.12	µg/L	490.12 ppb	18:51:26

2	S 181.975 Axial†	1365.8	1221.6	993.82 µg/L	993.82 ppb	18:51:26
2	Sb 206.836†	3834.3	3609.1	487.85 µg/L	487.85 ppb	18:51:26
2	Se 196.026†	1280.6	1223.4	486 µg/L	486 ppb	18:51:26
2	SiO2†	52085.9	48630.3	5294.5 µg/L	5294.5 ppb	18:51:06
2	Si 251.611†	156279.7	149954.3	2469.8 µg/L	2469.8 ppb	18:51:06
2	Sn 189.927†	7113.5	6854.4	488.96 µg/L	488.96 ppb	18:51:26
2	Sr 421.552†	226242.9	217223.8	509.08 µg/L	509.08 ppb	18:50:18
2	Ti 334.940†	504866.7	485981.2	494.91 µg/L	494.91 ppb	18:51:06
2	Tl 190.801†	3631.8	3620.9	493.44 µg/L	493.44 ppb	18:51:26
2	U 409.014†	7123.0	7344.6	483.95 µg/L	483.95 ppb	18:51:06
2	V 292.402†	92685.9	88903.8	499.36 µg/L	499.36 ppb	18:51:06
2	Zn 213.857†	81781.8	78361.2	489.37 µg/L	489.37 ppb	18:51:06
3	Sc 361.383	1735485.3	1735485.3	103.75 %		18:51:29
3	Sc RADIAL	153403.0	153403.0	105 %		18:50:24
3	Y 371.029	1055021.0	1055021.0	103.17 %		18:51:29
3	Ag 328.068†	128496.4	120886.2	496.73 µg/L	496.73 ppb	18:51:29
3	Al 396.153Radial†	24553.1	23360.7	5076.8 µg/L	5076.8 ppb	18:50:24
3	As 188.979†	1228.3	1198.2	507.85 µg/L	507.85 ppb	18:51:49
3	B 249.677†	33764.7	29188.9	488.34 µg/L	488.34 ppb	18:51:29
3	Ba 233.527†	112730.4	108832.0	497.58 µg/L	497.58 ppb	18:51:29
3	Be 313.107†	1593609.1	1536684.9	500.35 µg/L	500.35 ppb	18:51:29
3	Ca 317.933Radial†	90597.1	85463.7	5007.8 µg/L	5007.8 ppb	18:50:24
3	Cd 226.502†	73406.3	70848.2	488.94 µg/L	488.94 ppb	18:51:29
3	Co 228.616†	37011.7	35850.9	491.16 µg/L	491.16 ppb	18:51:29
3	Cr 267.716†	59666.8	57350.6	492.47 µg/L	492.47 ppb	18:51:29
3	Cu 324.752†	120307.7	113535.5	495.08 µg/L	495.08 ppb	18:51:29
3	Fe 238.204 Radial†	78518.4	74490.1	4952.4 µg/L	4952.4 ppb	18:50:24
3	K 766.490 Radial†	15451.9	13226.5	5441.0 µg/L	5441.0 ppb	18:50:24
3	Mg 279.077 IEC†	13189.3	12345.0	5097.6 µg/L	5097.6 ppb	18:50:24
3	Mn 257.610†	374488.1	360876.2	492.90 µg/L	492.90 ppb	18:51:29
3	Mo 202.031†	15929.3	15408.9	486.85 µg/L	486.85 ppb	18:51:49
3	Na 589.592 Radial†	70596.2	65381.5	9999.4 µg/L	9999.4 ppb	18:50:24
3	Ni 231.604†	39740.3	38345.2	490.48 µg/L	490.48 ppb	18:51:29
3	P 214.914†	10488.7	10030.1	2393.6 µg/L	2393.6 ppb	18:51:49
3	Pb 220.353†	8512.5	8092.5	491.77 µg/L	491.77 ppb	18:51:49
3	S 181.975 Axial†	1342.5	1199.2	975.68 µg/L	975.68 ppb	18:51:49
3	Sb 206.836†	3856.9	3630.9	490.82 µg/L	490.82 ppb	18:51:49
3	Se 196.026†	1283.1	1225.8	487 µg/L	487 ppb	18:51:49
3	SiO2†	51906.7	48458.3	5275.6 µg/L	5275.6 ppb	18:51:29
3	Si 251.611†	155757.0	149452.4	2461.5 µg/L	2461.5 ppb	18:51:29
3	Sn 189.927†	7131.5	6871.8	490.19 µg/L	490.19 ppb	18:51:49
3	Sr 421.552†	223596.8	212726.1	498.53 µg/L	498.53 ppb	18:50:22
3	Ti 334.940†	502794.3	483989.7	492.88 µg/L	492.88 ppb	18:51:29
3	Tl 190.801†	3635.4	3624.3	493.87 µg/L	493.87 ppb	18:51:49
3	U 409.014†	7197.3	7416.4	488.32 µg/L	488.32 ppb	18:51:29
3	V 292.402†	92498.4	88724.2	498.37 µg/L	498.37 ppb	18:51:29
3	Zn 213.857†	81445.8	78038.4	487.36 µg/L	487.36 ppb	18:51:29

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1729154.0	103.37 %	0.657			0.64%
Sc RADIAL	153181.0	105 %	0.7			0.71%
Y 371.029	1051107.5	102.79 %	0.597			0.58%
Ag 328.068†	121249.1	498.21 µg/L	1.295	498.21 ppb	1.295	0.26%
QC value within limits for Ag 328.068 Recovery = 99.64%						
Al 396.153Radial†	23406.1	5086.6 µg/L	10.30	5086.6 ppb	10.30	0.20%
QC value within limits for Al 396.153Radial Recovery = 101.73%						
As 188.979†	1196.6	507.20 µg/L	5.724	507.20 ppb	5.724	1.13%
QC value within limits for As 188.979 Recovery = 101.44%						
B 249.677†	29205.0	488.61 µg/L	1.419	488.61 ppb	1.419	0.29%
QC value within limits for B 249.677 Recovery = 97.72%						
Ba 233.527†	108891.3	497.85 µg/L	0.708	497.85 ppb	0.708	0.14%
QC value within limits for Ba 233.527 Recovery = 99.57%						
Be 313.107†	1536907.7	500.43 µg/L	0.954	500.43 ppb	0.954	0.19%
QC value within limits for Be 313.107 Recovery = 100.09%						
Ca 317.933Radial†	85122.6	4987.8 µg/L	23.42	4987.8 ppb	23.42	0.47%
QC value within limits for Ca 317.933Radial Recovery = 99.76%						
Cd 226.502†	70843.2	488.91 µg/L	1.299	488.91 ppb	1.299	0.27%
QC value within limits for Cd 226.502 Recovery = 97.78%						

Co 228.616†	35838.4	490.99 µg/L	1.470	490.99 ppb	1.470	0.30%
QC value within limits for Co 228.616 Recovery = 98.20%						
Cr 267.716†	57387.4	492.78 µg/L	0.599	492.78 ppb	0.599	0.12%
QC value within limits for Cr 267.716 Recovery = 98.56%						
Cu 324.752†	113845.1	496.42 µg/L	1.617	496.42 ppb	1.617	0.33%
QC value within limits for Cu 324.752 Recovery = 99.28%						
Fe 238.204 Radial†	74287.3	4938.9 µg/L	16.02	4938.9 ppb	16.02	0.32%
QC value within limits for Fe 238.204 Radial Recovery = 98.78%						
K 766.490 Radial†	13215.9	5436.6 µg/L	13.92	5436.6 ppb	13.92	0.26%
QC value within limits for K 766.490 Radial Recovery = 108.73%						
Mg 279.077 IEC†	12292.3	5076.0 µg/L	19.85	5076.0 ppb	19.85	0.39%
QC value within limits for Mg 279.077 IEC Recovery = 101.52%						
Mn 257.610†	361435.1	493.67 µg/L	1.013	493.67 ppb	1.013	0.21%
QC value within limits for Mn 257.610 Recovery = 98.73%						
Mo 202.031†	15466.0	488.65 µg/L	4.194	488.65 ppb	4.194	0.86%
QC value within limits for Mo 202.031 Recovery = 97.73%						
Na 589.592 Radial†	65359.4	9996.0 µg/L	44.02	9996.0 ppb	44.02	0.44%
QC value within limits for Na 589.592 Radial Recovery = 99.96%						
Ni 231.604†	38458.3	491.93 µg/L	2.043	491.93 ppb	2.043	0.42%
QC value within limits for Ni 231.604 Recovery = 98.39%						
P 214.914†	10070.7	2403.3 µg/L	20.35	2403.3 ppb	20.35	0.85%
QC value within limits for P 214.914 Recovery = 96.13%						
Pb 220.353†	8129.5	494.02 µg/L	5.379	494.02 ppb	5.379	1.09%
QC value within limits for Pb 220.353 Recovery = 98.80%						
S 181.975 Axial†	1221.1	993.43 µg/L	17.559	993.43 ppb	17.559	1.77%
QC value within limits for S 181.975 Axial Recovery = 99.34%						
Sb 206.836†	3627.2	490.35 µg/L	2.300	490.35 ppb	2.300	0.47%
QC value within limits for Sb 206.836 Recovery = 98.07%						
Se 196.026†	1227.2	488 µg/L	1.8	488 ppb	1.8	0.38%
QC value within limits for Se 196.026 Recovery = 97.52%						
SiO2†	48523.7	5282.7 µg/L	10.27	5282.7 ppb	10.27	0.19%
QC value within limits for SiO2 Recovery = 98.79%						
Si 251.611†	149635.3	2464.5 µg/L	4.63	2464.5 ppb	4.63	0.19%
QC value within limits for Si 251.611 Recovery = 98.58%						
Sn 189.927†	6896.5	491.95 µg/L	4.158	491.95 ppb	4.158	0.85%
QC value within limits for Sn 189.927 Recovery = 98.39%						
Sr 421.552†	214359.7	502.36 µg/L	5.833	502.36 ppb	5.833	1.16%
QC value within limits for Sr 421.552 Recovery = 100.47%						
Ti 334.940†	484560.5	493.46 µg/L	1.265	493.46 ppb	1.265	0.26%
QC value within limits for Ti 334.940 Recovery = 98.69%						
Tl 190.801†	3643.7	496.49 µg/L	4.915	496.49 ppb	4.915	0.99%
QC value within limits for Tl 190.801 Recovery = 99.30%						
U 409.014†	7452.9	490.62 µg/L	8.063	490.62 ppb	8.063	1.64%
QC value within limits for U 409.014 Recovery = 98.12%						
V 292.402†	88843.0	499.05 µg/L	0.592	499.05 ppb	0.592	0.12%
QC value within limits for V 292.402 Recovery = 99.81%						
Zn 213.857†	78199.5	488.37 µg/L	1.004	488.37 ppb	1.004	0.21%
QC value within limits for Zn 213.857 Recovery = 97.67%						
All analyte(s) passed QC.						

Sequence No.: 14

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : optima4

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/29/2010 18:51:58

Data Type: Reprocessed on 3/29/2010 19:14:42

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 361.383	1728897.1	1728897.1	103.36 %		18:53:35
1	Sc RADIAL	154974.9	154974.9	106 %		18:52:27
1	Y 371.029	1063835.8	1063835.8	104.03 %		18:53:35
1	Ag 328.068†	3134.9	66.1	0.2939 µg/L	0.2939 ppb	18:53:37
1	Al 396.153Radial†	-26.1	7.3	1.5617 µg/L	1.5617 ppb	18:52:47
1	As 188.979†	-6.1	8.3	3.4794 µg/L	3.4794 ppb	18:53:57
1	B 249.677†	3279.3	-182.9	-3.0715 µg/L	-3.0715 ppb	18:53:57
1	Ba 233.527†	-172.5	8.1	0.0372 µg/L	0.0372 ppb	18:53:57
1	Be 313.107†	-265.8	402.9	0.1379 µg/L	0.1379 ppb	18:53:37
1	Ca 317.933Radial†	701.7	43.7	2.5615 µg/L	2.5615 ppb	18:52:47
1	Cd 226.502†	-78.0	18.9	0.1302 µg/L	0.1302 ppb	18:53:57
1	Co 228.616†	-150.4	31.1	0.4253 µg/L	0.4253 ppb	18:53:57
1	Cr 267.716†	165.7	0.1	-0.0163 µg/L	-0.0163 ppb	18:53:57
1	Cu 324.752†	2708.5	195.7	0.8692 µg/L	0.8692 ppb	18:53:37
1	Fe 238.204 Radial†	162.5	39.6	2.6306 µg/L	2.6306 ppb	18:52:47
1	K 766.490 Radial†	1937.4	367.1	151.11 µg/L	151.11 ppb	18:52:27
1	Mg 279.077 IEC†	162.4	-33.9	-13.972 µg/L	-13.972 ppb	18:52:47
1	Mn 257.610†	174.4	88.7	0.1218 µg/L	0.1218 ppb	18:53:57
1	Mo 202.031†	-30.8	25.4	0.8010 µg/L	0.8010 ppb	18:53:57
1	Na 589.592 Radial†	2342.1	508.0	77.603 µg/L	77.603 ppb	18:52:27
1	Ni 231.604†	-58.4	-15.6	-0.1996 µg/L	-0.1996 ppb	18:53:57
1	P 214.914†	71.2	-10.7	-2.5700 µg/L	-2.5700 ppb	18:53:57
1	Pb 220.353†	154.2	36.7	2.2095 µg/L	2.2095 ppb	18:53:57
1	S 181.975 Axial†	101.6	3.4	2.7893 µg/L	2.7893 ppb	18:53:57
1	Sb 206.836†	90.3	0.8	0.1164 µg/L	0.1164 ppb	18:53:57
1	Se 196.026†	18.0	6.5	2.59 µg/L	2.59 ppb	18:53:57
1	SiO2†	1694.9	67.0	7.2702 µg/L	7.2702 ppb	18:53:57
1	Si 251.611†	856.4	152.3	2.4932 µg/L	2.4932 ppb	18:53:57
1	Sn 189.927†	32.2	29.2	2.0730 µg/L	2.0730 ppb	18:53:57
1	Sr 421.552†	-130.0	155.7	0.3650 µg/L	0.3650 ppb	18:52:27
1	Ti 334.940†	561.4	-93.1	-0.1029 µg/L	-0.1029 ppb	18:53:37
1	Tl 190.801†	-112.5	11.5	1.5393 µg/L	1.5393 ppb	18:53:57
1	U 409.014†	-122.5	360.6	22.274 µg/L	22.274 ppb	18:53:37
1	V 292.402†	422.0	-23.5	-0.1074 µg/L	-0.1074 ppb	18:53:37
1	Zn 213.857†	665.5	179.5	1.1304 µg/L	1.1304 ppb	18:53:57
2	Sc 361.383	1739415.6	1739415.6	103.98 %		18:53:59
2	Sc RADIAL	153949.0	153949.0	106 %		18:52:49
2	Y 371.029	1070599.7	1070599.7	104.70 %		18:53:59
2	Ag 328.068†	3011.7	-70.7	-0.2648 µg/L	-0.2648 ppb	18:54:01
2	Al 396.153Radial†	-22.1	11.0	2.3766 µg/L	2.3766 ppb	18:53:09
2	As 188.979†	-13.6	1.2	0.4948 µg/L	0.4948 ppb	18:54:21
2	B 249.677†	3226.1	-253.2	-4.2510 µg/L	-4.2510 ppb	18:54:21
2	Ba 233.527†	-183.8	-1.7	-0.0082 µg/L	-0.0082 ppb	18:54:21
2	Be 313.107†	-497.9	181.3	0.0661 µg/L	0.0661 ppb	18:54:01
2	Ca 317.933Radial†	683.5	30.9	1.8113 µg/L	1.8113 ppb	18:53:09
2	Cd 226.502†	-81.2	16.3	0.1120 µg/L	0.1120 ppb	18:54:21
2	Co 228.616†	-169.3	13.8	0.1886 µg/L	0.1886 ppb	18:54:21
2	Cr 267.716†	203.3	35.3	0.2845 µg/L	0.2845 ppb	18:54:21
2	Cu 324.752†	2932.9	395.7	1.7397 µg/L	1.7397 ppb	18:54:01
2	Fe 238.204 Radial†	156.9	35.2	2.3419 µg/L	2.3419 ppb	18:53:09
2	K 766.490 Radial†	1851.5	297.9	122.64 µg/L	122.64 ppb	18:52:49
2	Mg 279.077 IEC†	181.3	-15.0	-6.1810 µg/L	-6.1810 ppb	18:53:09
2	Mn 257.610†	185.1	98.0	0.1342 µg/L	0.1342 ppb	18:54:21
2	Mo 202.031†	-40.6	16.1	0.5093 µg/L	0.5093 ppb	18:54:21
2	Na 589.592 Radial†	2203.5	391.5	59.792 µg/L	59.792 ppb	18:52:49
2	Ni 231.604†	-87.1	-42.9	-0.5483 µg/L	-0.5483 ppb	18:54:21
2	P 214.914†	70.7	-11.6	-2.7920 µg/L	-2.7920 ppb	18:54:21
2	Pb 220.353†	120.5	3.4	0.1904 µg/L	0.1904 ppb	18:54:21

2	S 181.975 Axial†	93.2	-5.2	-4.2193 µg/L	-4.2193 ppb	18:54:21
2	Sb 206.836†	93.2	3.0	0.4017 µg/L	0.4017 ppb	18:54:21
2	Se 196.026†	16.5	5.0	1.99 µg/L	1.99 ppb	18:54:21
2	SiO2†	1661.9	25.3	2.7424 µg/L	2.7424 ppb	18:54:21
2	Si 251.611†	798.6	91.6	1.5029 µg/L	1.5029 ppb	18:54:21
2	Sn 189.927†	13.9	11.4	0.8082 µg/L	0.8082 ppb	18:54:21
2	Sr 421.552†	-162.3	124.3	0.2914 µg/L	0.2914 ppb	18:52:49
2	Ti 334.940†	589.0	-69.9	-0.0804 µg/L	-0.0804 ppb	18:54:01
2	Tl 190.801†	-123.3	1.7	0.2267 µg/L	0.2267 ppb	18:54:21
2	U 409.014†	-105.6	377.6	23.300 µg/L	23.300 ppb	18:54:01
2	V 292.402†	344.7	-100.3	-0.5347 µg/L	-0.5347 ppb	18:54:01
2	Zn 213.857†	642.6	153.6	0.9689 µg/L	0.9689 ppb	18:54:21
3	Sc 361.383	1736015.7	1736015.7	103.78 %		18:54:23
3	Sc RADIAL	153754.9	153754.9	105 %		18:53:11
3	Y 371.029	1068282.8	1068282.8	104.47 %		18:54:23
3	Ag 328.068†	2964.9	-110.2	-0.4509 µg/L	-0.4509 ppb	18:54:26
3	Al 396.153Radial†	-16.1	16.6	3.5986 µg/L	3.5986 ppb	18:53:31
3	As 188.979†	-20.3	-5.3	-2.2272 µg/L	-2.2272 ppb	18:54:46
3	B 249.677†	3208.4	-264.2	-4.4364 µg/L	-4.4364 ppb	18:54:46
3	Ba 233.527†	-175.6	5.8	0.0262 µg/L	0.0262 ppb	18:54:46
3	Be 313.107†	-146.9	518.6	0.1704 µg/L	0.1704 ppb	18:54:26
3	Ca 317.933Radial†	709.7	56.6	3.3147 µg/L	3.3147 ppb	18:53:31
3	Cd 226.502†	-66.7	30.1	0.2078 µg/L	0.2078 ppb	18:54:46
3	Co 228.616†	-149.7	32.3	0.4424 µg/L	0.4424 ppb	18:54:46
3	Cr 267.716†	183.5	16.6	0.1380 µg/L	0.1380 ppb	18:54:46
3	Cu 324.752†	2785.8	259.4	1.1323 µg/L	1.1323 ppb	18:54:26
3	Fe 238.204 Radial†	167.4	45.4	3.0195 µg/L	3.0195 ppb	18:53:31
3	K 766.490 Radial†	2004.9	445.6	183.43 µg/L	183.43 ppb	18:53:11
3	Mg 279.077 IEC†	164.0	-31.2	-12.871 µg/L	-12.871 ppb	18:53:31
3	Mn 257.610†	141.8	56.6	0.0779 µg/L	0.0779 ppb	18:54:46
3	Mo 202.031†	-43.5	13.3	0.4189 µg/L	0.4189 ppb	18:54:46
3	Na 589.592 Radial†	2025.0	224.9	34.251 µg/L	34.251 ppb	18:53:11
3	Ni 231.604†	-54.8	-11.9	-0.1527 µg/L	-0.1527 ppb	18:54:46
3	P 214.914†	63.8	-18.1	-4.3341 µg/L	-4.3341 ppb	18:54:46
3	Pb 220.353†	149.8	31.9	1.9285 µg/L	1.9285 ppb	18:54:46
3	S 181.975 Axial†	104.0	5.4	4.3655 µg/L	4.3655 ppb	18:54:46
3	Sb 206.836†	91.0	1.1	0.1457 µg/L	0.1457 ppb	18:54:46
3	Se 196.026†	19.4	7.7	3.06 µg/L	3.06 ppb	18:54:46
3	SiO2†	1644.1	11.4	1.2195 µg/L	1.2195 ppb	18:54:46
3	Si 251.611†	797.5	92.1	1.5112 µg/L	1.5112 ppb	18:54:46
3	Sn 189.927†	13.8	11.3	0.8038 µg/L	0.8038 ppb	18:54:46
3	Sr 421.552†	-194.0	94.1	0.2206 µg/L	0.2206 ppb	18:53:11
3	Ti 334.940†	849.4	182.1	0.1846 µg/L	0.1846 ppb	18:54:26
3	Tl 190.801†	-118.6	6.0	0.7978 µg/L	0.7978 ppb	18:54:46
3	U 409.014†	-409.0	85.0	5.2024 µg/L	5.2024 ppb	18:54:26
3	V 292.402†	290.0	-152.4	-0.8373 µg/L	-0.8373 ppb	18:54:26
3	Zn 213.857†	615.7	128.9	0.8114 µg/L	0.8114 ppb	18:54:46

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1734776.2	103.71 %	0.321			0.31%
Sc RADIAL	154226.3	106 %	0.4			0.43%
Y 371.029	1067572.8	104.40 %	0.336			0.32%
Ag 328.068†	-38.3	-0.1406 µg/L	0.38763	-0.1406 ppb	0.38763	275.71%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	11.6	2.5123 µg/L	1.02521	2.5123 ppb	1.02521	40.81%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.4	0.5823 µg/L	2.85430	0.5823 ppb	2.85430	490.14%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-233.4	-3.9196 µg/L	0.74029	-3.9196 ppb	0.74029	18.89%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.1	0.0184 µg/L	0.02367	0.0184 ppb	0.02367	128.49%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	367.6	0.1248 µg/L	0.05339	0.1248 ppb	0.05339	42.78%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	43.7	2.5625 µg/L	0.75170	2.5625 ppb	0.75170	29.33%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	21.8	0.1500 µg/L	0.05085	0.1500 ppb	0.05085	33.90%
QC value within limits for Cd 226.502 Recovery = Not calculated						

Co 228.616†	25.7	0.3521 µg/L	0.14188	0.3521 ppb	0.14188	40.30%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	17.3	0.1354 µg/L	0.15041	0.1354 ppb	0.15041	111.10%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	283.6	1.2471 µg/L	0.44643	1.2471 ppb	0.44643	35.80%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	40.1	2.6640 µg/L	0.34002	2.6640 ppb	0.34002	12.76%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	370.2	152.39 µg/L	30.414	152.39 ppb	30.414	19.96%
QC value greater than the upper limit for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-26.7	-11.008 µg/L	4.2166	-11.008 ppb	4.2166	38.30%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	81.1	0.1113 µg/L	0.02959	0.1113 ppb	0.02959	26.59%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	18.3	0.5764 µg/L	0.19971	0.5764 ppb	0.19971	34.65%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	374.8	57.216 µg/L	21.7906	57.216 ppb	21.7906	38.09%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-23.5	-0.3002 µg/L	0.21614	-0.3002 ppb	0.21614	72.00%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-13.5	-3.2320 µg/L	0.96088	-3.2320 ppb	0.96088	29.73%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	24.0	1.4428 µg/L	1.09369	1.4428 ppb	1.09369	75.80%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	1.2	0.9785 µg/L	4.56987	0.9785 ppb	4.56987	467.04%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	1.6	0.2213 µg/L	0.15695	0.2213 ppb	0.15695	70.93%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	6.4	2.55 µg/L	0.537	2.55 ppb	0.537	21.07%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	34.6	3.7440 µg/L	3.14725	3.7440 ppb	3.14725	84.06%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	112.0	1.8358 µg/L	0.56935	1.8358 ppb	0.56935	31.01%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	17.3	1.2284 µg/L	0.73152	1.2284 ppb	0.73152	59.55%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	124.7	0.2923 µg/L	0.07221	0.2923 ppb	0.07221	24.70%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	6.3	0.0004 µg/L	0.15987	0.0004 ppb	0.15987	>999.9%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	6.4	0.8546 µg/L	0.65815	0.8546 ppb	0.65815	77.01%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	274.4	16.925 µg/L	10.1653	16.925 ppb	10.1653	60.06%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-92.1	-0.4931 µg/L	0.36672	-0.4931 ppb	0.36672	74.37%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	154.0	0.9702 µg/L	0.15951	0.9702 ppb	0.15951	16.44%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 15

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : optima4

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/29/2010 18:57:39

Data Type: Reprocessed on 3/29/2010 19:14:43

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	1742170.7	1742170.7	104.15 %		18:58:39
1	Sc RADIAL	154515.3	154515.3	106 %		18:58:11
1	Y 371.029	1059060.1	1059060.1	103.57 %		18:58:39
1	Ag 328.068†	129322.6	121204.2	498.05 µg/L	498.05 ppb	18:58:39
1	Al 396.153Radial†	24823.0	23447.4	5095.8 µg/L	5095.8 ppb	18:58:11
1	As 188.979†	1217.4	1183.1	501.56 µg/L	501.56 ppb	18:58:59
1	B 249.677†	33548.3	28856.2	482.76 µg/L	482.76 ppb	18:58:39
1	Ba 233.527†	113126.0	108794.9	497.41 µg/L	497.41 ppb	18:58:39
1	Be 313.107†	1604803.7	1541539.3	501.94 µg/L	501.94 ppb	18:58:39
1	Ca 317.933Radial†	90245.5	84512.4	4952.1 µg/L	4952.1 ppb	18:58:11
1	Cd 226.502†	73575.0	70738.7	488.19 µg/L	488.19 ppb	18:58:39
1	Co 228.616†	37114.9	35813.1	490.65 µg/L	490.65 ppb	18:58:39
1	Cr 267.716†	59986.2	57436.6	493.20 µg/L	493.20 ppb	18:58:39
1	Cu 324.752†	120959.5	113716.5	495.86 µg/L	495.86 ppb	18:58:39
1	Fe 238.204 Radial†	78194.0	73647.1	4896.3 µg/L	4896.3 ppb	18:58:11
1	K 766.490 Radial†	14176.6	11917.8	4902.2 µg/L	4902.2 ppb	18:58:11
1	Mg 279.077 IEC†	13187.4	12253.0	5059.7 µg/L	5059.7 ppb	18:58:11
1	Mn 257.610†	376145.4	361082.3	493.18 µg/L	493.18 ppb	18:58:39
1	Mo 202.031†	15919.4	15340.5	484.69 µg/L	484.69 ppb	18:58:59
1	Na 589.592 Radial†	70146.9	64474.8	9861.1 µg/L	9861.1 ppb	18:58:11
1	Ni 231.604†	39988.6	38436.6	491.65 µg/L	491.65 ppb	18:58:39
1	P 214.914†	10512.2	10013.9	2389.7 µg/L	2389.7 ppb	18:58:59
1	Pb 220.353†	8436.4	7988.0	485.43 µg/L	485.43 ppb	18:58:59
1	S 181.975 Axial†	1318.2	1170.9	952.74 µg/L	952.74 ppb	18:58:59
1	Sb 206.836†	3856.6	3616.3	488.81 µg/L	488.81 ppb	18:58:59
1	Se 196.026†	1269.9	1208.4	480 µg/L	480 ppb	18:58:59
1	SiO2†	51891.1	48251.3	5253.1 µg/L	5253.1 ppb	18:58:39
1	Si 251.611†	155814.4	148931.5	2452.9 µg/L	2452.9 ppb	18:58:39
1	Sn 189.927†	7088.8	6804.4	485.40 µg/L	485.40 ppb	18:58:59
1	Sr 421.552†	226055.0	213515.6	500.39 µg/L	500.39 ppb	18:58:09
1	Ti 334.940†	505203.6	484443.4	493.34 µg/L	493.34 ppb	18:58:39
1	Tl 190.801†	3627.2	3603.0	491.03 µg/L	491.03 ppb	18:58:59
1	U 409.014†	7391.3	7576.0	498.27 µg/L	498.27 ppb	18:58:39
1	V 292.402†	93133.5	88991.9	499.85 µg/L	499.85 ppb	18:58:39
1	Zn 213.857†	81243.9	77543.3	484.25 µg/L	484.25 ppb	18:58:39
2	Sc 361.383	1731918.8	1731918.8	103.54 %		18:59:02
2	Sc RADIAL	153334.6	153334.6	105 %		18:58:15
2	Y 371.029	1053099.9	1053099.9	102.98 %		18:59:02
2	Ag 328.068†	128679.2	121317.8	498.52 µg/L	498.52 ppb	18:59:02
2	Al 396.153Radial†	24533.3	23352.3	5074.9 µg/L	5074.9 ppb	18:58:15
2	As 188.979†	1225.6	1198.0	507.75 µg/L	507.75 ppb	18:59:22
2	B 249.677†	33340.5	28846.3	482.59 µg/L	482.59 ppb	18:59:02
2	Ba 233.527†	112441.8	108777.0	497.33 µg/L	497.33 ppb	18:59:02
2	Be 313.107†	1592364.8	1538646.2	501.00 µg/L	501.00 ppb	18:59:02
2	Ca 317.933Radial†	89792.3	84737.0	4965.2 µg/L	4965.2 ppb	18:58:15
2	Cd 226.502†	73051.4	70651.1	487.59 µg/L	487.59 ppb	18:59:02
2	Co 228.616†	36781.7	35702.2	489.13 µg/L	489.13 ppb	18:59:02
2	Cr 267.716†	59502.2	57310.0	492.11 µg/L	492.11 ppb	18:59:02
2	Cu 324.752†	119947.4	113426.4	494.60 µg/L	494.60 ppb	18:59:02
2	Fe 238.204 Radial†	77968.6	74000.8	4919.8 µg/L	4919.8 ppb	18:58:15
2	K 766.490 Radial†	14058.0	11908.0	4898.2 µg/L	4898.2 ppb	18:58:15
2	Mg 279.077 IEC†	13036.1	12205.0	5039.9 µg/L	5039.9 ppb	18:58:15
2	Mn 257.610†	373427.3	360594.9	492.52 µg/L	492.52 ppb	18:59:02
2	Mo 202.031†	15910.1	15421.9	487.26 µg/L	487.26 ppb	18:59:22
2	Na 589.592 Radial†	69792.3	64647.2	9887.5 µg/L	9887.5 ppb	18:58:15
2	Ni 231.604†	39642.4	38329.5	490.28 µg/L	490.28 ppb	18:59:02
2	P 214.914†	10490.2	10052.4	2398.9 µg/L	2398.9 ppb	18:59:22
2	Pb 220.353†	8461.2	8059.8	489.79 µg/L	489.79 ppb	18:59:22

2	S 181.975 Axial†	1332.4	1192.1	969.89 µg/L	969.89 ppb	18:59:22
2	Sb 206.836†	3845.4	3627.4	490.36 µg/L	490.36 ppb	18:59:22
2	Se 196.026†	1281.0	1226.3	487 µg/L	487 ppb	18:59:22
2	SiO2†	51762.5	48422.0	5271.6 µg/L	5271.6 ppb	18:59:02
2	Si 251.611†	154651.7	148694.0	2448.9 µg/L	2448.9 ppb	18:59:02
2	Sn 189.927†	7107.0	6862.3	489.51 µg/L	489.51 ppb	18:59:22
2	Sr 421.552†	226773.0	215840.0	505.83 µg/L	505.83 ppb	18:58:13
2	Ti 334.940†	500715.6	482980.0	491.85 µg/L	491.85 ppb	18:59:02
2	Tl 190.801†	3643.2	3639.1	495.88 µg/L	495.88 ppb	18:59:22
2	U 409.014†	7329.7	7558.5	497.20 µg/L	497.20 ppb	18:59:02
2	V 292.402†	92631.5	89036.3	500.12 µg/L	500.12 ppb	18:59:02
2	Zn 213.857†	80666.5	77447.4	483.65 µg/L	483.65 ppb	18:59:02
3	Sc 361.383	1731636.7	1731636.7	103.52 %		18:59:25
3	Sc RADIAL	154205.4	154205.4	106 %		18:58:20
3	Y 371.029	1052626.8	1052626.8	102.94 %		18:59:25
3	Ag 328.068†	128532.9	121196.7	498.02 µg/L	498.02 ppb	18:59:25
3	Al 396.153Radial†	24950.8	23615.3	5132.4 µg/L	5132.4 ppb	18:58:20
3	As 188.979†	1233.7	1206.0	511.11 µg/L	511.11 ppb	18:59:45
3	B 249.677†	33475.9	28982.3	484.88 µg/L	484.88 ppb	18:59:25
3	Ba 233.527†	112293.7	108651.6	496.76 µg/L	496.76 ppb	18:59:25
3	Be 313.107†	1590952.1	1537532.1	500.63 µg/L	500.63 ppb	18:59:25
3	Ca 317.933Radial†	90838.5	85244.0	4994.9 µg/L	4994.9 ppb	18:58:20
3	Cd 226.502†	73036.3	70648.1	487.56 µg/L	487.56 ppb	18:59:25
3	Co 228.616†	36829.8	35754.4	489.84 µg/L	489.84 ppb	18:59:25
3	Cr 267.716†	59440.0	57259.2	491.68 µg/L	491.68 ppb	18:59:25
3	Cu 324.752†	119916.0	113414.9	494.56 µg/L	494.56 ppb	18:59:25
3	Fe 238.204 Radial†	78885.0	74448.4	4949.6 µg/L	4949.6 ppb	18:58:20
3	K 766.490 Radial†	14076.3	11849.9	4874.3 µg/L	4874.3 ppb	18:58:20
3	Mg 279.077 IEC†	13322.3	12405.5	5122.6 µg/L	5122.6 ppb	18:58:20
3	Mn 257.610†	373424.5	360651.0	492.59 µg/L	492.59 ppb	18:59:25
3	Mo 202.031†	15880.4	15395.8	486.44 µg/L	486.44 ppb	18:59:45
3	Na 589.592 Radial†	70305.8	64758.0	9904.5 µg/L	9904.5 ppb	18:58:20
3	Ni 231.604†	39803.4	38491.3	492.35 µg/L	492.35 ppb	18:59:25
3	P 214.914†	10482.3	10046.4	2397.5 µg/L	2397.5 ppb	18:59:45
3	Pb 220.353†	8408.9	8010.6	486.81 µg/L	486.81 ppb	18:59:45
3	S 181.975 Axial†	1326.3	1186.4	965.31 µg/L	965.31 ppb	18:59:45
3	Sb 206.836†	3839.9	3622.7	489.73 µg/L	489.73 ppb	18:59:45
3	Se 196.026†	1268.7	1214.6	483 µg/L	483 ppb	18:59:45
3	SiO2†	51614.7	48287.3	5257.0 µg/L	5257.0 ppb	18:59:25
3	Si 251.611†	154566.1	148635.7	2448.0 µg/L	2448.0 ppb	18:59:25
3	Sn 189.927†	7092.3	6849.2	488.58 µg/L	488.58 ppb	18:59:45
3	Sr 421.552†	224060.1	212058.6	496.97 µg/L	496.97 ppb	18:58:17
3	Ti 334.940†	500694.3	483038.2	491.90 µg/L	491.90 ppb	18:59:25
3	Tl 190.801†	3646.3	3642.7	496.35 µg/L	496.35 ppb	18:59:45
3	U 409.014†	7327.6	7557.6	497.15 µg/L	497.15 ppb	18:59:25
3	V 292.402†	92621.5	89041.2	500.13 µg/L	500.13 ppb	18:59:25
3	Zn 213.857†	80736.0	77527.2	484.14 µg/L	484.14 ppb	18:59:25

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1735242.1	103.73 %	0.359			0.35%
Sc RADIAL	154018.4	106 %	0.4			0.40%
Y 371.029	1054928.9	103.16 %	0.351			0.34%
Ag 328.068†	121239.6	498.20 µg/L	0.276	498.20 ppb	0.276	0.06%
QC value within limits for Ag 328.068 Recovery = 99.64%						
Al 396.153Radial†	23471.7	5101.0 µg/L	29.08	5101.0 ppb	29.08	0.57%
QC value within limits for Al 396.153Radial Recovery = 102.02%						
As 188.979†	1195.7	506.81 µg/L	4.846	506.81 ppb	4.846	0.96%
QC value within limits for As 188.979 Recovery = 101.36%						
B 249.677†	28895.0	483.41 µg/L	1.273	483.41 ppb	1.273	0.26%
QC value within limits for B 249.677 Recovery = 96.68%						
Ba 233.527†	108741.2	497.17 µg/L	0.357	497.17 ppb	0.357	0.07%
QC value within limits for Ba 233.527 Recovery = 99.43%						
Be 313.107†	1539239.2	501.19 µg/L	0.673	501.19 ppb	0.673	0.13%
QC value within limits for Be 313.107 Recovery = 100.24%						
Ca 317.933Radial†	84831.1	4970.7 µg/L	21.96	4970.7 ppb	21.96	0.44%
QC value within limits for Ca 317.933Radial Recovery = 99.41%						
Cd 226.502†	70679.3	487.78 µg/L	0.358	487.78 ppb	0.358	0.07%
QC value within limits for Cd 226.502 Recovery = 97.56%						

Co 228.616†	35756.6	489.87 µg/L	0.760	489.87 ppb	0.760	0.16%
QC value within limits for Co 228.616 Recovery = 97.97%						
Cr 267.716†	57335.3	492.33 µg/L	0.783	492.33 ppb	0.783	0.16%
QC value within limits for Cr 267.716 Recovery = 98.47%						
Cu 324.752†	113519.3	495.01 µg/L	0.740	495.01 ppb	0.740	0.15%
QC value within limits for Cu 324.752 Recovery = 99.00%						
Fe 238.204 Radial†	74032.1	4921.9 µg/L	26.70	4921.9 ppb	26.70	0.54%
QC value within limits for Fe 238.204 Radial Recovery = 98.44%						
K 766.490 Radial†	11891.9	4891.6 µg/L	15.12	4891.6 ppb	15.12	0.31%
QC value within limits for K 766.490 Radial Recovery = 97.83%						
Mg 279.077 IEC†	12287.8	5074.1 µg/L	43.14	5074.1 ppb	43.14	0.85%
QC value within limits for Mg 279.077 IEC Recovery = 101.48%						
Mn 257.610†	360776.1	492.77 µg/L	0.365	492.77 ppb	0.365	0.07%
QC value within limits for Mn 257.610 Recovery = 98.55%						
Mo 202.031†	15386.1	486.13 µg/L	1.313	486.13 ppb	1.313	0.27%
QC value within limits for Mo 202.031 Recovery = 97.23%						
Na 589.592 Radial†	64626.7	9884.4 µg/L	21.84	9884.4 ppb	21.84	0.22%
QC value within limits for Na 589.592 Radial Recovery = 98.84%						
Ni 231.604†	38419.1	491.43 µg/L	1.053	491.43 ppb	1.053	0.21%
QC value within limits for Ni 231.604 Recovery = 98.29%						
P 214.914†	10037.5	2395.4 µg/L	4.95	2395.4 ppb	4.95	0.21%
QC value within limits for P 214.914 Recovery = 95.81%						
Pb 220.353†	8019.5	487.34 µg/L	2.227	487.34 ppb	2.227	0.46%
QC value within limits for Pb 220.353 Recovery = 97.47%						
S 181.975 Axial†	1183.1	962.65 µg/L	8.881	962.65 ppb	8.881	0.92%
QC value within limits for S 181.975 Axial Recovery = 96.26%						
Sb 206.836†	3622.2	489.63 µg/L	0.781	489.63 ppb	0.781	0.16%
QC value within limits for Sb 206.836 Recovery = 97.93%						
Se 196.026†	1216.4	483 µg/L	3.6	483 ppb	3.6	0.75%
QC value within limits for Se 196.026 Recovery = 96.66%						
SiO2†	48320.2	5260.6 µg/L	9.78	5260.6 ppb	9.78	0.19%
QC value within limits for SiO2 Recovery = 98.37%						
Si 251.611†	148753.7	2449.9 µg/L	2.62	2449.9 ppb	2.62	0.11%
QC value within limits for Si 251.611 Recovery = 98.00%						
Sn 189.927†	6838.6	487.83 µg/L	2.157	487.83 ppb	2.157	0.44%
QC value within limits for Sn 189.927 Recovery = 97.57%						
Sr 421.552†	213804.8	501.06 µg/L	4.470	501.06 ppb	4.470	0.89%
QC value within limits for Sr 421.552 Recovery = 100.21%						
Ti 334.940†	483487.2	492.36 µg/L	0.845	492.36 ppb	0.845	0.17%
QC value within limits for Ti 334.940 Recovery = 98.47%						
Tl 190.801†	3628.3	494.42 µg/L	2.943	494.42 ppb	2.943	0.60%
QC value within limits for Tl 190.801 Recovery = 98.88%						
U 409.014†	7564.0	497.54 µg/L	0.636	497.54 ppb	0.636	0.13%
QC value within limits for U 409.014 Recovery = 99.51%						
V 292.402†	89023.2	500.03 µg/L	0.157	500.03 ppb	0.157	0.03%
QC value within limits for V 292.402 Recovery = 100.01%						
Zn 213.857†	77506.0	484.01 µg/L	0.318	484.01 ppb	0.318	0.07%
QC value within limits for Zn 213.857 Recovery = 96.80%						
All analyte(s) passed QC.						

Sequence No.: 16

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : optima4

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/29/2010 18:59:54

Data Type: Reprocessed on 3/29/2010 19:14:44

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Conc. Units	Sample Units	Analysis Time
1	Sc 361.383	1743930.9	1743930.9	104.25 %				19:01:45
1	Sc RADIAL	157207.9	157207.9	108 %				19:00:23
1	Y 371.029	1072817.8	1072817.8	104.91 %				19:01:45
1	Ag 328.068†	2785.5	-295.2	-1.1824 µg/L		-1.1824 ppb		19:01:47
1	Al 396.153Radial†	-35.9	-1.4	-0.3269 µg/L		-0.3269 ppb		19:00:43
1	As 188.979†	-9.7	4.9	2.0592 µg/L		2.0592 ppb		19:02:07
1	B 249.677†	3169.2	-315.8	-5.3028 µg/L		-5.3028 ppb		19:02:07
1	Ba 233.527†	-172.8	9.3	0.0423 µg/L		0.0423 ppb		19:02:07
1	Be 313.107†	-580.2	103.6	0.0392 µg/L		0.0392 ppb		19:01:47
1	Ca 317.933Radial†	703.1	35.6	2.0888 µg/L		2.0888 ppb		19:00:43
1	Cd 226.502†	-117.2	-18.0	-0.1248 µg/L		-0.1248 ppb		19:02:07
1	Co 228.616†	-175.0	8.7	0.1195 µg/L		0.1195 ppb		19:02:07
1	Cr 267.716†	174.7	7.4	0.0489 µg/L		0.0489 ppb		19:02:07
1	Cu 324.752†	2833.3	292.9	1.2883 µg/L		1.2883 ppb		19:01:47
1	Fe 238.204 Radial†	147.5	23.5	1.5605 µg/L		1.5605 ppb		19:00:43
1	K 766.490 Radial†	1652.9	77.5	31.907 µg/L		31.907 ppb		19:00:23
1	Mg 279.077 IEC†	179.9	-19.9	-8.1726 µg/L		-8.1726 ppb		19:00:43
1	Mn 257.610†	174.5	87.4	0.1197 µg/L		0.1197 ppb		19:02:07
1	Mo 202.031†	-38.4	18.4	0.5797 µg/L		0.5797 ppb		19:02:07
1	Na 589.592 Radial†	1931.7	96.3	14.699 µg/L		14.699 ppb		19:00:23
1	Ni 231.604†	-49.3	-6.4	-0.0822 µg/L		-0.0822 ppb		19:02:07
1	P 214.914†	78.3	-4.5	-1.0824 µg/L		-1.0824 ppb		19:02:07
1	Pb 220.353†	116.5	-0.7	-0.0551 µg/L		-0.0551 ppb		19:02:07
1	S 181.975 Axial†	92.5	-6.1	-4.9234 µg/L		-4.9234 ppb		19:02:07
1	Sb 206.836†	87.4	-2.8	-0.3729 µg/L		-0.3729 ppb		19:02:07
1	Se 196.026†	21.5	9.7	3.85 µg/L		3.85 ppb		19:02:07
1	SiO2†	1662.9	22.2	2.3983 µg/L		2.3983 ppb		19:02:07
1	Si 251.611†	781.9	73.6	1.2037 µg/L		1.2037 ppb		19:02:07
1	Sn 189.927†	15.0	12.4	0.8828 µg/L		0.8828 ppb		19:02:07
1	Sr 421.552†	-145.8	142.8	0.3347 µg/L		0.3347 ppb		19:00:23
1	Ti 334.940†	822.4	152.5	0.1487 µg/L		0.1487 ppb		19:01:47
1	Tl 190.801†	-112.5	12.4	1.6651 µg/L		1.6651 ppb		19:02:07
1	U 409.014†	-191.3	295.6	18.231 µg/L		18.231 ppb		19:01:47
1	V 292.402†	340.4	-105.3	-0.5658 µg/L		-0.5658 ppb		19:01:47
1	Zn 213.857†	528.4	42.4	0.2666 µg/L		0.2666 ppb		19:02:07
2	Sc 361.383	1749880.6	1749880.6	104.61 %				19:02:09
2	Sc RADIAL	154607.9	154607.9	106 %				19:00:45
2	Y 371.029	1075429.4	1075429.4	105.17 %				19:02:09
2	Ag 328.068†	2854.9	-238.0	-0.9266 µg/L		-0.9266 ppb		19:02:11
2	Al 396.153Radial†	-53.8	-18.9	-4.1894 µg/L		-4.1894 ppb		19:01:05
2	As 188.979†	-8.5	6.1	2.5641 µg/L		2.5641 ppb		19:02:31
2	B 249.677†	3184.7	-311.3	-5.2277 µg/L		-5.2277 ppb		19:02:31
2	Ba 233.527†	-166.1	16.2	0.0743 µg/L		0.0743 ppb		19:02:31
2	Be 313.107†	-429.5	249.5	0.0921 µg/L		0.0921 ppb		19:02:11
2	Ca 317.933Radial†	674.2	19.4	1.1395 µg/L		1.1395 ppb		19:01:05
2	Cd 226.502†	-92.3	6.1	0.0422 µg/L		0.0422 ppb		19:02:31
2	Co 228.616†	-147.4	35.7	0.4889 µg/L		0.4889 ppb		19:02:31
2	Cr 267.716†	146.6	-20.1	-0.2010 µg/L		-0.2010 ppb		19:02:31
2	Cu 324.752†	2740.1	194.5	0.8753 µg/L		0.8753 ppb		19:02:11
2	Fe 238.204 Radial†	152.9	30.9	2.0532 µg/L		2.0532 ppb		19:01:05
2	K 766.490 Radial†	1696.1	144.0	59.261 µg/L		59.261 ppb		19:00:45
2	Mg 279.077 IEC†	164.9	-31.2	-12.828 µg/L		-12.828 ppb		19:01:05
2	Mn 257.610†	159.3	72.2	0.0992 µg/L		0.0992 ppb		19:02:31
2	Mo 202.031†	-10.4	45.2	1.4272 µg/L		1.4272 ppb		19:02:31
2	Na 589.592 Radial†	1913.7	109.4	16.687 µg/L		16.687 ppb		19:00:45
2	Ni 231.604†	-34.9	7.5	0.0960 µg/L		0.0960 ppb		19:02:31
2	P 214.914†	88.9	5.5	1.2769 µg/L		1.2769 ppb		19:02:31
2	Pb 220.353†	116.9	-0.7	-0.0641 µg/L		-0.0641 ppb		19:02:31

2	S 181.975 Axial†	98.1	-1.0	-0.8273 µg/L	-0.8273 ppb	19:02:31
2	Sb 206.836†	79.8	-10.4	-1.3806 µg/L	-1.3806 ppb	19:02:31
2	Se 196.026†	23.1	11.2	4.46 µg/L	4.46 ppb	19:02:31
2	SiO2†	1662.3	16.2	1.7388 µg/L	1.7388 ppb	19:02:31
2	Si 251.611†	771.7	61.4	0.9975 µg/L	0.9975 ppb	19:02:31
2	Sn 189.927†	-2.4	-4.3	-0.3060 µg/L	-0.3060 ppb	19:02:31
2	Sr 421.552†	-168.4	119.2	0.2795 µg/L	0.2795 ppb	19:00:45
2	Ti 334.940†	843.2	169.7	0.1595 µg/L	0.1595 ppb	19:02:11
2	Tl 190.801†	-115.5	9.9	1.3206 µg/L	1.3206 ppb	19:02:31
2	U 409.014†	109.4	583.7	36.043 µg/L	36.043 ppb	19:02:11
2	V 292.402†	368.0	-80.0	-0.4063 µg/L	-0.4063 ppb	19:02:11
2	Zn 213.857†	532.3	44.4	0.2783 µg/L	0.2783 ppb	19:02:31
3	Sc 361.383	1734424.8	1734424.8	103.69 %		19:02:33
3	Sc RADIAL	152171.1	152171.1	104 %		19:01:07
3	Y 371.029	1067156.7	1067156.7	104.36 %		19:02:33
3	Ag 328.068†	2902.9	-167.4	-0.6806 µg/L	-0.6806 ppb	19:02:36
3	Al 396.153Radial†	-58.9	-24.5	-5.3555 µg/L	-5.3555 ppb	19:01:27
3	As 188.979†	-18.7	-3.8	-1.5762 µg/L	-1.5762 ppb	19:02:56
3	B 249.677†	3166.5	-301.7	-5.0666 µg/L	-5.0666 ppb	19:02:56
3	Ba 233.527†	-187.7	-6.0	-0.0277 µg/L	-0.0277 ppb	19:02:56
3	Be 313.107†	-333.0	339.0	0.1115 µg/L	0.1115 ppb	19:02:36
3	Ca 317.933Radial†	709.2	63.1	3.6954 µg/L	3.6954 ppb	19:01:27
3	Cd 226.502†	-99.5	-1.5	-0.0105 µg/L	-0.0105 ppb	19:02:56
3	Co 228.616†	-170.8	11.9	0.1624 µg/L	0.1624 ppb	19:02:56
3	Cr 267.716†	184.7	17.9	0.1506 µg/L	0.1506 ppb	19:02:56
3	Cu 324.752†	2715.6	194.2	0.8472 µg/L	0.8472 ppb	19:02:36
3	Fe 238.204 Radial†	137.1	18.1	1.2007 µg/L	1.2007 ppb	19:01:27
3	K 766.490 Radial†	1528.8	9.4	3.8507 µg/L	3.8507 ppb	19:01:07
3	Mg 279.077 IEC†	173.3	-20.7	-8.5238 µg/L	-8.5238 ppb	19:01:27
3	Mn 257.610†	141.1	56.1	0.0769 µg/L	0.0769 ppb	19:02:56
3	Mo 202.031†	-52.8	4.2	0.1336 µg/L	0.1336 ppb	19:02:56
3	Na 589.592 Radial†	1839.9	67.6	10.341 µg/L	10.341 ppb	19:01:07
3	Ni 231.604†	-39.3	3.0	0.0386 µg/L	0.0386 ppb	19:02:56
3	P 214.914†	57.3	-24.3	-5.8246 µg/L	-5.8246 ppb	19:02:56
3	Pb 220.353†	120.4	3.6	0.2179 µg/L	0.2179 ppb	19:02:56
3	S 181.975 Axial†	88.1	-9.8	-7.9574 µg/L	-7.9574 ppb	19:02:56
3	Sb 206.836†	87.1	-2.6	-0.3549 µg/L	-0.3549 ppb	19:02:56
3	Se 196.026†	3.8	-7.2	-2.85 µg/L	-2.85 ppb	19:02:56
3	SiO2†	1649.9	18.4	1.9980 µg/L	1.9980 ppb	19:02:56
3	Si 251.611†	767.7	64.1	1.0530 µg/L	1.0530 ppb	19:02:56
3	Sn 189.927†	11.8	9.4	0.6667 µg/L	0.6667 ppb	19:02:56
3	Sr 421.552†	-198.5	87.9	0.2060 µg/L	0.2060 ppb	19:01:07
3	Ti 334.940†	650.8	-8.7	-0.0097 µg/L	-0.0097 ppb	19:02:36
3	Tl 190.801†	-110.3	13.9	1.8642 µg/L	1.8642 ppb	19:02:56
3	U 409.014†	-434.4	60.1	3.6852 µg/L	3.6852 ppb	19:02:36
3	V 292.402†	355.5	-88.9	-0.4890 µg/L	-0.4890 ppb	19:02:36
3	Zn 213.857†	538.0	54.5	0.3420 µg/L	0.3420 ppb	19:02:56

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1742745.4	104.18 %	0.466			0.45%
Sc RADIAL	154662.3	106 %	1.7			1.63%
Y 371.029	1071801.3	104.81 %	0.414			0.39%
Ag 328.068†	-233.5	-0.9298 µg/L	0.25091	-0.9298 ppb	0.25091	26.98%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-14.9	-3.2906 µg/L	2.63203	-3.2906 ppb	2.63203	79.99%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.4	1.0157 µg/L	2.25883	1.0157 ppb	2.25883	222.39%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-309.6	-5.1990 µg/L	0.12069	-5.1990 ppb	0.12069	2.32%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	6.5	0.0297 µg/L	0.05216	0.0297 ppb	0.05216	175.89%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	230.7	0.0809 µg/L	0.03739	0.0809 ppb	0.03739	46.19%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	39.4	2.3079 µg/L	1.29199	2.3079 ppb	1.29199	55.98%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-4.5	-0.0310 µg/L	0.08537	-0.0310 ppb	0.08537	275.14%
QC value within limits for Cd 226.502 Recovery = Not calculated						

Co 228.616†	18.8	0.2569 µg/L	0.20203	0.2569 ppb	0.20203	78.63%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	1.7	-0.0005 µg/L	0.18092	-0.0005 ppb	0.18092	>999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	227.2	1.0036 µg/L	0.24693	1.0036 ppb	0.24693	24.60%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	24.1	1.6048 µg/L	0.42799	1.6048 ppb	0.42799	26.67%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	76.9	31.673 µg/L	27.7059	31.673 ppb	27.7059	87.48%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-23.9	-9.8414 µg/L	2.59218	-9.8414 ppb	2.59218	26.34%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	71.9	0.0986 µg/L	0.02141	0.0986 ppb	0.02141	21.70%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	22.6	0.7135 µg/L	0.65711	0.7135 ppb	0.65711	92.10%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	91.1	13.909 µg/L	3.2461	13.909 ppb	3.2461	23.34%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	1.4	0.0175 µg/L	0.09096	0.0175 ppb	0.09096	520.03%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-7.8	-1.8767 µg/L	3.61681	-1.8767 ppb	3.61681	192.72%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	0.8	0.0329 µg/L	0.16029	0.0329 ppb	0.16029	486.83%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-5.6	-4.5694 µg/L	3.57820	-4.5694 ppb	3.57820	78.31%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-5.3	-0.7028 µg/L	0.58704	-0.7028 ppb	0.58704	83.53%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	4.6	1.82 µg/L	4.054	1.82 ppb	4.054	222.54%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	19.0	2.0451 µg/L	0.33227	2.0451 ppb	0.33227	16.25%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	66.3	1.0847 µg/L	0.10673	1.0847 ppb	0.10673	9.84%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	5.8	0.4145 µg/L	0.63329	0.4145 ppb	0.63329	152.78%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	116.6	0.2734 µg/L	0.06458	0.2734 ppb	0.06458	23.62%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	104.5	0.0995 µg/L	0.09469	0.0995 ppb	0.09469	95.16%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	12.1	1.6167 µg/L	0.27502	1.6167 ppb	0.27502	17.01%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	313.1	19.320 µg/L	16.2065	19.320 ppb	16.2065	83.89%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-91.4	-0.4870 µg/L	0.07980	-0.4870 ppb	0.07980	16.39%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	47.1	0.2956 µg/L	0.04054	0.2956 ppb	0.04054	13.71%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/29/2010 19:31:23

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	154889.6	154889.6	106 %		19:31:56
1	Al 396.153Radial†	25248.9	23791.6	5171.1 µg/L	5171.1 ppb	19:31:56
1	Ca 317.933Radial†	90787.7	84816.9	4969.9 µg/L	4969.9 ppb	19:31:56
1	Fe 238.204 Radial†	79020.5	74246.6	4936.2 µg/L	4936.2 ppb	19:31:56
1	K 766.490 Radial†	14072.9	11787.9	4848.7 µg/L	4848.7 ppb	19:31:56
1	Mg 279.077 IEC†	13305.1	12333.7	5092.8 µg/L	5092.8 ppb	19:31:56
1	Na 589.592 Radial†	70517.8	64663.9	9890.1 µg/L	9890.1 ppb	19:31:56
1	Sr 421.552†	229051.2	215819.7	505.79 µg/L	505.79 ppb	19:31:54
1	Sc 361.383	1743822.4	1743822.4	104.25 %		19:32:23
1	Y 371.029	1059163.2	1059163.2	103.58 %		19:32:23
1	Ag 328.068†	128580.1	120374.3	494.64 µg/L	494.64 ppb	19:32:23
1	As 188.979†	1249.3	1212.6	513.82 µg/L	513.82 ppb	19:32:43
1	B 249.677†	33313.2	28600.3	478.47 µg/L	478.47 ppb	19:32:23
1	Ba 233.527†	113123.6	108689.7	496.93 µg/L	496.93 ppb	19:32:23
1	Be 313.107†	1610699.9	1545735.8	503.30 µg/L	503.30 ppb	19:32:23
1	Cd 226.502†	72730.5	69861.7	482.13 µg/L	482.13 ppb	19:32:23
1	Co 228.616†	36860.0	35534.8	486.84 µg/L	486.84 ppb	19:32:23
1	Cr 267.716†	59413.7	56832.8	488.02 µg/L	488.02 ppb	19:32:23
1	Cu 324.752†	120074.9	112757.8	491.69 µg/L	491.69 ppb	19:32:23
1	Mn 257.610†	374470.1	359133.2	490.52 µg/L	490.52 ppb	19:32:23
1	Mo 202.031†	15834.2	15244.3	481.66 µg/L	481.66 ppb	19:32:43
1	Ni 231.604†	39808.6	38227.6	488.98 µg/L	488.98 ppb	19:32:23
1	P 214.914†	10378.9	9876.5	2356.8 µg/L	2356.8 ppb	19:32:43
1	Pb 220.353†	8316.1	7864.8	477.97 µg/L	477.97 ppb	19:32:43
1	S 181.975 Axial†	1303.7	1155.8	940.47 µg/L	940.47 ppb	19:32:43
1	Sb 206.836†	3839.6	3596.5	486.17 µg/L	486.17 ppb	19:32:43
1	Se 196.026†	1266.7	1204.2	478 µg/L	478 ppb	19:32:43
1	SiO2†	51618.1	47942.2	5219.4 µg/L	5219.4 ppb	19:32:23
1	Si 251.611†	154593.2	147618.3	2431.2 µg/L	2431.2 ppb	19:32:23
1	Sn 189.927†	7080.7	6790.2	484.38 µg/L	484.38 ppb	19:32:43
1	Ti 334.940†	502894.8	481769.2	490.61 µg/L	490.61 ppb	19:32:23
1	Tl 190.801†	3593.0	3566.9	486.15 µg/L	486.15 ppb	19:32:43
1	U 409.014†	7303.3	7484.9	492.46 µg/L	492.46 ppb	19:32:23
1	V 292.402†	92682.1	88474.1	496.92 µg/L	496.92 ppb	19:32:23
1	Zn 213.857†	80453.5	76711.2	479.02 µg/L	479.02 ppb	19:32:23
2	Sc RADIAL	155203.4	155203.4	106 %		19:32:01
2	Al 396.153Radial†	25234.3	23729.9	5157.5 µg/L	5157.5 ppb	19:32:01
2	Ca 317.933Radial†	90949.0	84795.6	4968.7 µg/L	4968.7 ppb	19:32:01
2	Fe 238.204 Radial†	79090.7	74162.2	4930.6 µg/L	4930.6 ppb	19:32:01
2	K 766.490 Radial†	13942.4	11638.6	4787.3 µg/L	4787.3 ppb	19:32:01
2	Mg 279.077 IEC†	13250.9	12257.5	5061.5 µg/L	5061.5 ppb	19:32:01
2	Na 589.592 Radial†	70292.0	64317.7	9837.2 µg/L	9837.2 ppb	19:32:01
2	Sr 421.552†	228066.3	214459.1	502.60 µg/L	502.60 ppb	19:31:59
2	Sc 361.383	1737215.7	1737215.7	103.85 %		19:32:47
2	Y 371.029	1054931.1	1054931.1	103.16 %		19:32:47
2	Ag 328.068†	128483.5	120750.5	496.17 µg/L	496.17 ppb	19:32:47
2	As 188.979†	1256.3	1223.9	518.55 µg/L	518.55 ppb	19:33:07
2	B 249.677†	33149.8	28564.4	477.87 µg/L	477.87 ppb	19:32:47
2	Ba 233.527†	112832.9	108822.5	497.54 µg/L	497.54 ppb	19:32:47
2	Be 313.107†	1606762.7	1547820.7	503.98 µg/L	503.98 ppb	19:32:47
2	Cd 226.502†	72368.9	69778.8	481.56 µg/L	481.56 ppb	19:32:47
2	Co 228.616†	36711.4	35526.2	486.72 µg/L	486.72 ppb	19:32:47
2	Cr 267.716†	59192.4	56836.4	488.05 µg/L	488.05 ppb	19:32:47
2	Cu 324.752†	119958.6	113083.9	493.10 µg/L	493.10 ppb	19:32:47
2	Mn 257.610†	372915.3	359002.2	490.34 µg/L	490.34 ppb	19:32:47
2	Mo 202.031†	15840.2	15307.8	483.66 µg/L	483.66 ppb	19:33:07
2	Ni 231.604†	39651.1	38221.1	488.89 µg/L	488.89 ppb	19:32:47
2	P 214.914†	10418.1	9952.1	2374.9 µg/L	2374.9 ppb	19:33:07
2	Pb 220.353†	8335.8	7914.1	480.97 µg/L	480.97 ppb	19:33:07

2	S 181.975 Axial†	1310.0	1166.6	949.21 µg/L	949.21 ppb	19:33:07
2	Sb 206.836†	3818.2	3589.9	485.30 µg/L	485.30 ppb	19:33:07
2	Se 196.026†	1256.0	1198.5	476 µg/L	476 ppb	19:33:07
2	SiO2†	51436.2	47955.4	5220.8 µg/L	5220.8 ppb	19:32:47
2	Si 251.611†	154237.0	147839.3	2434.9 µg/L	2434.9 ppb	19:32:47
2	Sn 189.927†	7075.7	6811.2	485.88 µg/L	485.88 ppb	19:33:07
2	Ti 334.940†	501670.2	482424.6	491.29 µg/L	491.29 ppb	19:32:47
2	Tl 190.801†	3598.0	3584.8	488.57 µg/L	488.57 ppb	19:33:07
2	U 409.014†	7114.9	7330.1	482.93 µg/L	482.93 ppb	19:32:47
2	V 292.402†	92447.3	88586.2	497.56 µg/L	497.56 ppb	19:32:47
2	Zn 213.857†	80237.4	76796.6	479.56 µg/L	479.56 ppb	19:32:47
3	Sc RADIAL	152343.2	152343.2	105 %		19:32:05
3	Al 396.153Radial†	24790.2	23749.9	5162.0 µg/L	5162.0 ppb	19:32:05
3	Ca 317.933Radial†	88711.7	84258.7	4937.2 µg/L	4937.2 ppb	19:32:05
3	Fe 238.204 Radial†	77301.6	73844.9	4909.5 µg/L	4909.5 ppb	19:32:05
3	K 766.490 Radial†	13851.3	11797.3	4852.6 µg/L	4852.6 ppb	19:32:05
3	Mg 279.077 IEC†	12897.2	12152.7	5018.2 µg/L	5018.2 ppb	19:32:05
3	Na 589.592 Radial†	69172.5	64486.0	9862.9 µg/L	9862.9 ppb	19:32:05
3	Sr 421.552†	226674.9	217149.0	508.90 µg/L	508.90 ppb	19:32:03
3	Sc 361.383	1739184.0	1739184.0	103.97 %		19:33:10
3	Y 371.029	1056341.4	1056341.4	103.30 %		19:33:10
3	Ag 328.068†	128938.9	121048.4	497.41 µg/L	497.41 ppb	19:33:10
3	As 188.979†	1242.3	1209.1	512.38 µg/L	512.38 ppb	19:33:30
3	B 249.677†	33322.5	28694.4	480.05 µg/L	480.05 ppb	19:33:10
3	Ba 233.527†	113432.0	109275.8	499.61 µg/L	499.61 ppb	19:33:10
3	Be 313.107†	1612377.9	1551470.5	505.17 µg/L	505.17 ppb	19:33:10
3	Cd 226.502†	72852.6	70165.2	484.23 µg/L	484.23 ppb	19:33:10
3	Co 228.616†	36901.2	35668.8	488.67 µg/L	488.67 ppb	19:33:10
3	Cr 267.716†	59397.9	56969.5	489.19 µg/L	489.19 ppb	19:33:10
3	Cu 324.752†	120225.9	113210.3	493.66 µg/L	493.66 ppb	19:33:10
3	Mn 257.610†	374839.5	360446.6	492.32 µg/L	492.32 ppb	19:33:10
3	Mo 202.031†	15729.4	15184.0	479.75 µg/L	479.75 ppb	19:33:30
3	Ni 231.604†	40031.5	38543.8	493.02 µg/L	493.02 ppb	19:33:10
3	P 214.914†	10307.1	9834.0	2346.7 µg/L	2346.7 ppb	19:33:30
3	Pb 220.353†	8288.5	7859.6	477.65 µg/L	477.65 ppb	19:33:30
3	S 181.975 Axial†	1283.8	1140.0	927.63 µg/L	927.63 ppb	19:33:30
3	Sb 206.836†	3807.3	3575.3	483.25 µg/L	483.25 ppb	19:33:30
3	Se 196.026†	1249.7	1191.1	473 µg/L	473 ppb	19:33:30
3	SiO2†	51607.6	48064.2	5232.9 µg/L	5232.9 ppb	19:33:10
3	Si 251.611†	155270.1	148664.8	2448.6 µg/L	2448.6 ppb	19:33:10
3	Sn 189.927†	7010.2	6740.5	480.86 µg/L	480.86 ppb	19:33:30
3	Ti 334.940†	504064.8	484181.1	493.08 µg/L	493.08 ppb	19:33:10
3	Tl 190.801†	3573.6	3557.4	484.91 µg/L	484.91 ppb	19:33:30
3	U 409.014†	7322.0	7521.5	494.86 µg/L	494.86 ppb	19:33:10
3	V 292.402†	92839.2	88862.3	499.06 µg/L	499.06 ppb	19:33:10
3	Zn 213.857†	80753.8	77205.9	482.11 µg/L	482.11 ppb	19:33:10

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1740074.0	104.02 %	0.203			0.19%
Sc RADIAL	154145.4	106 %	1.1			1.02%
Y 371.029	1056811.9	103.35 %	0.211			0.20%
Ag 328.068†	120724.4	496.07 µg/L	1.385	496.07 ppb	1.385	0.28%
QC value within limits for Ag 328.068 Recovery = 99.21%						
Al 396.153Radial†	23757.1	5163.5 µg/L	6.91	5163.5 ppb	6.91	0.13%
QC value within limits for Al 396.153Radial Recovery = 103.27%						
As 188.979†	1215.2	514.92 µg/L	3.230	514.92 ppb	3.230	0.63%
QC value within limits for As 188.979 Recovery = 102.98%						
B 249.677†	28619.7	478.80 µg/L	1.123	478.80 ppb	1.123	0.23%
QC value within limits for B 249.677 Recovery = 95.76%						
Ba 233.527†	108929.3	498.02 µg/L	1.404	498.02 ppb	1.404	0.28%
QC value within limits for Ba 233.527 Recovery = 99.60%						
Be 313.107†	1548342.3	504.15 µg/L	0.946	504.15 ppb	0.946	0.19%
QC value within limits for Be 313.107 Recovery = 100.83%						
Ca 317.933Radial†	84623.7	4958.6 µg/L	18.54	4958.6 ppb	18.54	0.37%
QC value within limits for Ca 317.933Radial Recovery = 99.17%						
Cd 226.502†	69935.2	482.64 µg/L	1.407	482.64 ppb	1.407	0.29%
QC value within limits for Cd 226.502 Recovery = 96.53%						
Co 228.616†	35576.6	487.41 µg/L	1.097	487.41 ppb	1.097	0.23%

QC value within limits for Co 228.616 Recovery = 97.48%							
Cr 267.716†	56879.6	488.42 µg/L	0.666	488.42 ppb	0.666	0.14%	
QC value within limits for Cr 267.716 Recovery = 97.68%							
Cu 324.752†	113017.4	492.82 µg/L	1.012	492.82 ppb	1.012	0.21%	
QC value within limits for Cu 324.752 Recovery = 98.56%							
Fe 238.204 Radial†	74084.6	4925.4 µg/L	14.08	4925.4 ppb	14.08	0.29%	
QC value within limits for Fe 238.204 Radial Recovery = 98.51%							
K 766.490 Radial†	11741.2	4829.6 µg/L	36.64	4829.6 ppb	36.64	0.76%	
QC value within limits for K 766.490 Radial Recovery = 96.59%							
Mg 279.077 IEC†	12248.0	5057.5 µg/L	37.48	5057.5 ppb	37.48	0.74%	
QC value within limits for Mg 279.077 IEC Recovery = 101.15%							
Mn 257.610†	359527.3	491.06 µg/L	1.093	491.06 ppb	1.093	0.22%	
QC value within limits for Mn 257.610 Recovery = 98.21%							
Mo 202.031†	15245.4	481.69 µg/L	1.954	481.69 ppb	1.954	0.41%	
QC value within limits for Mo 202.031 Recovery = 96.34%							
Na 589.592 Radial†	64489.2	9863.4 µg/L	26.47	9863.4 ppb	26.47	0.27%	
QC value within limits for Na 589.592 Radial Recovery = 98.63%							
Ni 231.604†	38330.9	490.30 µg/L	2.360	490.30 ppb	2.360	0.48%	
QC value within limits for Ni 231.604 Recovery = 98.06%							
P 214.914†	9887.5	2359.5 µg/L	14.32	2359.5 ppb	14.32	0.61%	
QC value within limits for P 214.914 Recovery = 94.38%							
Pb 220.353†	7879.5	478.86 µg/L	1.831	478.86 ppb	1.831	0.38%	
QC value within limits for Pb 220.353 Recovery = 95.77%							
S 181.975 Axial†	1154.1	939.11 µg/L	10.857	939.11 ppb	10.857	1.16%	
QC value within limits for S 181.975 Axial Recovery = 93.91%							
Sb 206.836†	3587.2	484.91 µg/L	1.496	484.91 ppb	1.496	0.31%	
QC value within limits for Sb 206.836 Recovery = 96.98%							
Se 196.026†	1197.9	476 µg/L	2.6	476 ppb	2.6	0.55%	
QC value within limits for Se 196.026 Recovery = 95.20%							
SiO2†	47987.3	5224.4 µg/L	7.40	5224.4 ppb	7.40	0.14%	
QC value within limits for SiO2 Recovery = 97.70%							
Si 251.611†	148040.8	2438.2 µg/L	9.16	2438.2 ppb	9.16	0.38%	
QC value within limits for Si 251.611 Recovery = 97.53%							
Sn 189.927†	6780.7	483.70 µg/L	2.578	483.70 ppb	2.578	0.53%	
QC value within limits for Sn 189.927 Recovery = 96.74%							
Sr 421.552†	215809.3	505.76 µg/L	3.152	505.76 ppb	3.152	0.62%	
QC value within limits for Sr 421.552 Recovery = 101.15%							
Ti 334.940†	482791.6	491.66 µg/L	1.273	491.66 ppb	1.273	0.26%	
QC value within limits for Ti 334.940 Recovery = 98.33%							
Tl 190.801†	3569.7	486.55 µg/L	1.860	486.55 ppb	1.860	0.38%	
QC value within limits for Tl 190.801 Recovery = 97.31%							
U 409.014†	7445.5	490.08 µg/L	6.310	490.08 ppb	6.310	1.29%	
QC value within limits for U 409.014 Recovery = 98.02%							
V 292.402†	88640.9	497.85 µg/L	1.100	497.85 ppb	1.100	0.22%	
QC value within limits for V 292.402 Recovery = 99.57%							
Zn 213.857†	76904.5	480.23 µg/L	1.651	480.23 ppb	1.651	0.34%	
QC value within limits for Zn 213.857 Recovery = 96.05%							

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/29/2010 19:33:37

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	154440.8	154440.8	106 %		19:34:06
1	Al 396.153Radial†	-43.3	-9.0	-2.0043 µg/L	-2.0043 ppb	19:34:26
1	Ca 317.933Radial†	696.6	41.2	2.4138 µg/L	2.4138 ppb	19:34:26
1	Fe 238.204 Radial†	166.8	44.1	2.9352 µg/L	2.9352 ppb	19:34:26
1	K 766.490 Radial†	1613.3	67.6	27.814 µg/L	27.814 ppb	19:34:06
1	Mg 279.077 IEC†	157.8	-37.7	-15.541 µg/L	-15.541 ppb	19:34:26
1	Na 589.592 Radial†	1722.8	-68.9	-10.561 µg/L	-10.561 ppb	19:34:06
1	Sr 421.552†	-120.8	163.9	0.3842 µg/L	0.3842 ppb	19:34:06
1	Sc 361.383	1731581.1	1731581.1	103.52 %		19:35:14
1	Y 371.029	1065562.9	1065562.9	104.20 %		19:35:14
1	Ag 328.068†	3216.9	140.6	0.5847 µg/L	0.5847 ppb	19:35:16
1	As 188.979†	-11.7	2.9	1.2300 µg/L	1.2300 ppb	19:35:36
1	B 249.677†	3120.0	-341.7	-5.7362 µg/L	-5.7362 ppb	19:35:36
1	Ba 233.527†	-175.6	5.4	0.0247 µg/L	0.0247 ppb	19:35:36
1	Be 313.107†	-246.2	422.2	0.1424 µg/L	0.1424 ppb	19:35:16
1	Cd 226.502†	-69.1	27.7	0.1908 µg/L	0.1908 ppb	19:35:36
1	Co 228.616†	-181.3	1.5	0.0198 µg/L	0.0198 ppb	19:35:36
1	Cr 267.716†	175.8	9.6	0.0693 µg/L	0.0693 ppb	19:35:36
1	Cu 324.752†	2669.4	153.9	0.6825 µg/L	0.6825 ppb	19:35:16
1	Mn 257.610†	196.9	110.2	0.1512 µg/L	0.1512 ppb	19:35:36
1	Mo 202.031†	-29.9	26.3	0.8305 µg/L	0.8305 ppb	19:35:36
1	Ni 231.604†	-61.5	-18.5	-0.2372 µg/L	-0.2372 ppb	19:35:36
1	P 214.914†	55.3	-26.1	-6.2662 µg/L	-6.2662 ppb	19:35:36
1	Pb 220.353†	115.1	-1.2	-0.0837 µg/L	-0.0837 ppb	19:35:36
1	S 181.975 Axial†	87.6	-10.2	-8.2246 µg/L	-8.2246 ppb	19:35:36
1	Sb 206.836†	73.1	-16.1	-2.1571 µg/L	-2.1571 ppb	19:35:36
1	Se 196.026†	13.4	2.0	0.826 µg/L	0.826 ppb	19:35:36
1	SiO2†	1671.5	41.8	4.5433 µg/L	4.5433 ppb	19:35:36
1	Si 251.611†	796.8	93.3	1.5290 µg/L	1.5290 ppb	19:35:36
1	Sn 189.927†	8.8	6.4	0.4582 µg/L	0.4582 ppb	19:35:36
1	Ti 334.940†	627.3	-30.4	-0.0364 µg/L	-0.0364 ppb	19:35:16
1	Tl 190.801†	-118.4	5.9	0.7913 µg/L	0.7913 ppb	19:35:36
1	U 409.014†	-222.3	264.4	16.308 µg/L	16.308 ppb	19:35:16
1	V 292.402†	354.1	-89.7	-0.4781 µg/L	-0.4781 ppb	19:35:16
1	Zn 213.857†	527.0	44.7	0.2818 µg/L	0.2818 ppb	19:35:36
2	Sc RADIAL	154279.9	154279.9	106 %		19:34:28
2	Al 396.153Radial†	-70.9	-35.1	-7.7094 µg/L	-7.7094 ppb	19:34:48
2	Ca 317.933Radial†	709.7	54.3	3.1826 µg/L	3.1826 ppb	19:34:48
2	Fe 238.204 Radial†	178.3	55.2	3.6708 µg/L	3.6708 ppb	19:34:48
2	K 766.490 Radial†	1463.8	-72.1	-29.690 µg/L	-29.690 ppb	19:34:28
2	Mg 279.077 IEC†	161.8	-33.8	-13.912 µg/L	-13.912 ppb	19:34:48
2	Na 589.592 Radial†	1747.5	-43.7	-6.6675 µg/L	-6.6675 ppb	19:34:28
2	Sr 421.552†	-216.0	73.9	0.1732 µg/L	0.1732 ppb	19:34:28
2	Sc 361.383	1751103.4	1751103.4	104.68 %		19:35:38
2	Y 371.029	1076583.0	1076583.0	105.28 %		19:35:38
2	Ag 328.068†	2689.9	-397.5	-1.6314 µg/L	-1.6314 ppb	19:35:40
2	As 188.979†	-19.4	-4.3	-1.7955 µg/L	-1.7955 ppb	19:36:00
2	B 249.677†	3164.1	-333.1	-5.5927 µg/L	-5.5927 ppb	19:36:00
2	Ba 233.527†	-177.8	5.3	0.0236 µg/L	0.0236 ppb	19:36:00
2	Be 313.107†	-520.5	162.9	0.0516 µg/L	0.0516 ppb	19:35:40
2	Cd 226.502†	-104.5	-5.4	-0.0378 µg/L	-0.0378 ppb	19:36:00
2	Co 228.616†	-170.5	13.7	0.1872 µg/L	0.1872 ppb	19:36:00
2	Cr 267.716†	176.6	8.5	0.0762 µg/L	0.0762 ppb	19:36:00
2	Cu 324.752†	2448.1	-86.2	-0.3785 µg/L	-0.3785 ppb	19:35:40
2	Mn 257.610†	240.0	149.3	0.2045 µg/L	0.2045 ppb	19:36:00
2	Mo 202.031†	-29.0	27.5	0.8664 µg/L	0.8664 ppb	19:36:00
2	Ni 231.604†	-48.2	-5.1	-0.0655 µg/L	-0.0655 ppb	19:36:00
2	P 214.914†	58.0	-24.2	-5.7906 µg/L	-5.7906 ppb	19:36:00
2	Pb 220.353†	124.4	6.4	0.3918 µg/L	0.3918 ppb	19:36:00

2	S 181.975 Axial†	90.4	-8.5	-6.8756 µg/L	-6.8756 ppb	19:36:00
2	Sb 206.836†	78.1	-12.0	-1.6140 µg/L	-1.6140 ppb	19:36:00
2	Se 196.026†	15.0	3.5	1.36 µg/L	1.36 ppb	19:36:00
2	SiO2†	1656.1	9.2	0.9709 µg/L	0.9709 ppb	19:36:00
2	Si 251.611†	759.0	48.7	0.7903 µg/L	0.7903 ppb	19:36:00
2	Sn 189.927†	8.2	5.8	0.4148 µg/L	0.4148 ppb	19:36:00
2	Ti 334.940†	745.1	75.4	0.0800 µg/L	0.0800 ppb	19:35:40
2	Tl 190.801†	-111.6	13.7	1.8304 µg/L	1.8304 ppb	19:36:00
2	U 409.014†	-582.4	-77.2	-4.8304 µg/L	-4.8304 ppb	19:35:40
2	V 292.402†	254.3	-188.9	-1.0423 µg/L	-1.0423 ppb	19:35:40
2	Zn 213.857†	524.9	37.0	0.2333 µg/L	0.2333 ppb	19:36:00
3	Sc RADIAL	154300.7	154300.7	106 %		19:34:50
3	Al 396.153Radial†	-22.9	10.3	2.2225 µg/L	2.2225 ppb	19:35:10
3	Ca 317.933Radial†	702.8	47.7	2.7963 µg/L	2.7963 ppb	19:35:10
3	Fe 238.204 Radial†	157.6	35.6	2.3638 µg/L	2.3638 ppb	19:35:10
3	K 766.490 Radial†	1363.4	-167.1	-68.805 µg/L	-68.805 ppb	19:34:50
3	Mg 279.077 IEC†	165.1	-30.7	-12.669 µg/L	-12.669 ppb	19:35:10
3	Na 589.592 Radial†	1617.5	-166.8	-25.467 µg/L	-25.467 ppb	19:34:50
3	Sr 421.552†	-166.5	120.7	0.2829 µg/L	0.2829 ppb	19:34:50
3	Sc 361.383	1756722.7	1756722.7	105.02 %		19:36:02
3	Y 371.029	1079825.4	1079825.4	105.60 %		19:36:02
3	Ag 328.068†	3226.0	104.8	0.4137 µg/L	0.4137 ppb	19:36:04
3	As 188.979†	-24.9	-9.5	-3.9669 µg/L	-3.9669 ppb	19:36:25
3	B 249.677†	3162.1	-344.7	-5.7874 µg/L	-5.7874 ppb	19:36:25
3	Ba 233.527†	-158.1	24.5	0.1116 µg/L	0.1116 ppb	19:36:25
3	Be 313.107†	-509.5	174.9	0.0572 µg/L	0.0572 ppb	19:36:04
3	Cd 226.502†	-104.2	-4.8	-0.0337 µg/L	-0.0337 ppb	19:36:25
3	Co 228.616†	-161.9	22.4	0.3068 µg/L	0.3068 ppb	19:36:25
3	Cr 267.716†	163.5	-4.5	-0.0399 µg/L	-0.0399 ppb	19:36:25
3	Cu 324.752†	2579.5	31.3	0.1372 µg/L	0.1372 ppb	19:36:04
3	Mn 257.610†	210.9	120.8	0.1656 µg/L	0.1656 ppb	19:36:25
3	Mo 202.031†	-42.5	14.8	0.4652 µg/L	0.4652 ppb	19:36:25
3	Ni 231.604†	-54.2	-10.7	-0.1372 µg/L	-0.1372 ppb	19:36:25
3	P 214.914†	63.9	-18.7	-4.4865 µg/L	-4.4865 ppb	19:36:25
3	Pb 220.353†	88.7	-28.0	-1.6935 µg/L	-1.6935 ppb	19:36:25
3	S 181.975 Axial†	84.6	-14.3	-11.562 µg/L	-11.562 ppb	19:36:25
3	Sb 206.836†	89.1	-1.8	-0.2346 µg/L	-0.2346 ppb	19:36:25
3	Se 196.026†	11.7	0.2	0.100 µg/L	0.100 ppb	19:36:25
3	SiO2†	1684.0	30.6	3.3325 µg/L	3.3325 ppb	19:36:25
3	Si 251.611†	773.1	59.7	0.9802 µg/L	0.9802 ppb	19:36:25
3	Sn 189.927†	5.3	3.0	0.2161 µg/L	0.2161 ppb	19:36:25
3	Ti 334.940†	867.2	189.4	0.1939 µg/L	0.1939 ppb	19:36:04
3	Tl 190.801†	-113.0	12.7	1.7012 µg/L	1.7012 ppb	19:36:25
3	U 409.014†	-487.5	14.9	0.8641 µg/L	0.8641 ppb	19:36:04
3	V 292.402†	257.1	-187.1	-1.0329 µg/L	-1.0329 ppb	19:36:04
3	Zn 213.857†	501.2	12.8	0.0813 µg/L	0.0813 ppb	19:36:25

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1746469.1	104.41 %	0.789			0.76%
Sc RADIAL	154340.5	106 %	0.1			0.06%
Y 371.029	1073990.4	105.03 %	0.731			0.70%
Ag 328.068†	-50.7	-0.2110 µg/L	1.23303	-0.2110 ppb	1.23303	584.39%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-11.3	-2.4971 µg/L	4.98426	-2.4971 ppb	4.98426	199.60%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.6	-1.5108 µg/L	2.61013	-1.5108 ppb	2.61013	172.77%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-339.8	-5.7054 µg/L	0.10093	-5.7054 ppb	0.10093	1.77%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	11.7	0.0533 µg/L	0.05049	0.0533 ppb	0.05049	94.76%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	253.3	0.0837 µg/L	0.05087	0.0837 ppb	0.05087	60.76%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	47.7	2.7975 µg/L	0.38440	2.7975 ppb	0.38440	13.74%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	5.8	0.0397 µg/L	0.13082	0.0397 ppb	0.13082	329.26%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	12.5	0.1713 µg/L	0.14419	0.1713 ppb	0.14419	84.18%

QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	4.5	0.0352 µg/L	0.06512	0.0352 ppb	0.06512	185.02%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	33.0	0.1470 µg/L	0.53058	0.1470 ppb	0.53058	360.82%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	45.0	2.9899 µg/L	0.65521	2.9899 ppb	0.65521	21.91%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-57.2	-23.560 µg/L	48.6004	-23.560 ppb	48.6004	206.28%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-34.1	-14.041 µg/L	1.4406	-14.041 ppb	1.4406	10.26%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	126.8	0.1738 µg/L	0.02760	0.1738 ppb	0.02760	15.88%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	22.8	0.7207 µg/L	0.22201	0.7207 ppb	0.22201	30.81%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-93.1	-14.232 µg/L	9.9226	-14.232 ppb	9.9226	69.72%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-11.5	-0.1466 µg/L	0.08623	-0.1466 ppb	0.08623	58.80%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-23.0	-5.5144 µg/L	0.92145	-5.5144 ppb	0.92145	16.71%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-7.6	-0.4618 µg/L	1.09284	-0.4618 ppb	1.09284	236.66%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-11.0	-8.8875 µg/L	2.41268	-8.8875 ppb	2.41268	27.15%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-10.0	-1.3353 µg/L	0.99108	-1.3353 ppb	0.99108	74.22%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	1.9	0.763 µg/L	0.6334	0.763 ppb	0.6334	83.06%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	27.2	2.9489 µg/L	1.81680	2.9489 ppb	1.81680	61.61%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	67.2	1.0998 µg/L	0.38363	1.0998 ppb	0.38363	34.88%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	5.1	0.3630 µg/L	0.12911	0.3630 ppb	0.12911	35.56%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	119.5	0.2801 µg/L	0.10556	0.2801 ppb	0.10556	37.69%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	78.1	0.0792 µg/L	0.11512	0.0792 ppb	0.11512	145.40%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	10.8	1.4410 µg/L	0.56631	1.4410 ppb	0.56631	39.30%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	67.4	4.1140 µg/L	10.93772	4.1140 ppb	10.93772	265.87%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-155.2	-0.8511 µg/L	0.32304	-0.8511 ppb	0.32304	37.96%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	31.5	0.1988 µg/L	0.10458	0.1988 ppb	0.10458	52.60%
QC value within limits for Zn 213.857 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 18

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/29/2010 19:52:48

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	155882.7	155882.7	107 %		19:53:21
1	Al 396.153Radial†	25404.5	23785.7	5169.7 µg/L	5169.7 ppb	19:53:21
1	Ca 317.933Radial†	90923.1	84399.2	4945.4 µg/L	4945.4 ppb	19:53:21
1	Fe 238.204 Radial†	79031.3	73782.9	4905.3 µg/L	4905.3 ppb	19:53:21
1	K 766.490 Radial†	14120.7	11748.2	4832.4 µg/L	4832.4 ppb	19:53:21
1	Mg 279.077 IEC†	13276.7	12227.4	5049.1 µg/L	5049.1 ppb	19:53:21
1	Na 589.592 Radial†	70685.1	64397.5	9849.3 µg/L	9849.3 ppb	19:53:21
1	Sr 421.552†	229627.1	214985.0	503.83 µg/L	503.83 ppb	19:53:19
1	Sc 361.383	1753609.4	1753609.4	104.83 %		19:53:33
1	Y 371.029	1065335.0	1065335.0	104.18 %		19:53:33
1	Ag 328.068†	129859.6	120906.6	496.82 µg/L	496.82 ppb	19:53:33
1	As 188.979†	1259.2	1215.4	515.01 µg/L	515.01 ppb	19:53:54
1	B 249.677†	33439.0	28541.9	477.50 µg/L	477.50 ppb	19:53:33
1	Ba 233.527†	114213.7	109124.0	498.92 µg/L	498.92 ppb	19:53:33
1	Be 313.107†	1623855.4	1549661.7	504.58 µg/L	504.58 ppb	19:53:33
1	Cd 226.502†	73102.1	69826.8	481.89 µg/L	481.89 ppb	19:53:33
1	Co 228.616†	36982.2	35454.0	485.73 µg/L	485.73 ppb	19:53:33
1	Cr 267.716†	59867.3	56947.4	489.01 µg/L	489.01 ppb	19:53:33
1	Cu 324.752†	121039.4	113035.1	492.88 µg/L	492.88 ppb	19:53:33
1	Mn 257.610†	376767.1	359319.5	490.78 µg/L	490.78 ppb	19:53:33
1	Mo 202.031†	15963.8	15283.1	482.88 µg/L	482.88 ppb	19:53:54
1	Ni 231.604†	39977.6	38175.7	488.31 µg/L	488.31 ppb	19:53:33
1	P 214.914†	10457.3	9895.7	2361.5 µg/L	2361.5 ppb	19:53:54
1	Pb 220.353†	8391.8	7892.5	479.66 µg/L	479.66 ppb	19:53:54
1	S 181.975 Axial†	1293.9	1139.4	927.23 µg/L	927.23 ppb	19:53:54
1	Sb 206.836†	3874.2	3609.0	487.86 µg/L	487.86 ppb	19:53:54
1	Se 196.026†	1272.9	1203.3	478 µg/L	478 ppb	19:53:54
1	SiO2†	51967.3	47999.0	5225.6 µg/L	5225.6 ppb	19:53:33
1	Si 251.611†	156115.9	148243.1	2441.5 µg/L	2441.5 ppb	19:53:33
1	Sn 189.927†	7141.4	6810.1	485.80 µg/L	485.80 ppb	19:53:54
1	Ti 334.940†	507174.4	483159.2	492.04 µg/L	492.04 ppb	19:53:33
1	Tl 190.801†	3640.2	3592.7	489.65 µg/L	489.65 ppb	19:53:54
1	U 409.014†	7175.3	7323.6	482.62 µg/L	482.62 ppb	19:53:33
1	V 292.402†	93601.0	88854.5	499.04 µg/L	499.04 ppb	19:53:33
1	Zn 213.857†	81005.3	76806.8	479.63 µg/L	479.63 ppb	19:53:33
2	Sc RADIAL	156189.6	156189.6	107 %		19:53:25
2	Al 396.153Radial†	25453.6	23784.9	5169.5 µg/L	5169.5 ppb	19:53:25
2	Ca 317.933Radial†	91189.7	84480.9	4950.2 µg/L	4950.2 ppb	19:53:25
2	Fe 238.204 Radial†	79453.6	74031.8	4921.9 µg/L	4921.9 ppb	19:53:25
2	K 766.490 Radial†	14048.5	11654.9	4794.0 µg/L	4794.0 ppb	19:53:25
2	Mg 279.077 IEC†	13352.4	12273.6	5068.1 µg/L	5068.1 ppb	19:53:25
2	Na 589.592 Radial†	70950.0	64514.9	9867.3 µg/L	9867.3 ppb	19:53:25
2	Sr 421.552†	232352.0	217106.1	508.80 µg/L	508.80 ppb	19:53:23
2	Sc 361.383	1749571.1	1749571.1	104.59 %		19:53:57
2	Y 371.029	1062777.0	1062777.0	103.93 %		19:53:57
2	Ag 328.068†	129030.1	120399.3	494.76 µg/L	494.76 ppb	19:53:57
2	As 188.979†	1277.4	1235.6	523.42 µg/L	523.42 ppb	19:54:17
2	B 249.677†	33289.1	28472.2	476.33 µg/L	476.33 ppb	19:53:57
2	Ba 233.527†	113708.3	108892.2	497.86 µg/L	497.86 ppb	19:53:57
2	Be 313.107†	1621134.0	1550635.2	504.90 µg/L	504.90 ppb	19:53:57
2	Cd 226.502†	72772.0	69672.1	480.82 µg/L	480.82 ppb	19:53:57
2	Co 228.616†	36900.7	35457.5	485.78 µg/L	485.78 ppb	19:53:57
2	Cr 267.716†	59600.3	56824.0	487.94 µg/L	487.94 ppb	19:53:57
2	Cu 324.752†	120397.9	112688.2	491.39 µg/L	491.39 ppb	19:53:57
2	Mn 257.610†	375323.1	358768.5	490.02 µg/L	490.02 ppb	19:53:57
2	Mo 202.031†	15936.5	15292.2	483.17 µg/L	483.17 ppb	19:54:17
2	Ni 231.604†	39772.4	38067.5	486.93 µg/L	486.93 ppb	19:53:57
2	P 214.914†	10473.9	9934.6	2370.8 µg/L	2370.8 ppb	19:54:17
2	Pb 220.353†	8398.2	7917.1	481.14 µg/L	481.14 ppb	19:54:17

2	S 181.975 Axial†	1310.8	1158.5	942.63 µg/L	942.63 ppb	19:54:17
2	Sb 206.836†	3846.2	3590.8	485.41 µg/L	485.41 ppb	19:54:17
2	Se 196.026†	1265.1	1198.6	476 µg/L	476 ppb	19:54:17
2	SiO2†	51895.6	48044.8	5230.6 µg/L	5230.6 ppb	19:53:57
2	Si 251.611†	155321.7	147827.6	2434.7 µg/L	2434.7 ppb	19:53:57
2	Sn 189.927†	7131.0	6815.9	486.21 µg/L	486.21 ppb	19:54:17
2	Ti 334.940†	504709.9	481919.6	490.77 µg/L	490.77 ppb	19:53:57
2	Tl 190.801†	3621.3	3582.7	488.28 µg/L	488.28 ppb	19:54:17
2	U 409.014†	7284.6	7443.9	490.00 µg/L	490.00 ppb	19:53:57
2	V 292.402†	93209.2	88686.0	498.11 µg/L	498.11 ppb	19:53:57
2	Zn 213.857†	80533.7	76534.3	477.93 µg/L	477.93 ppb	19:53:57
3	Sc RADIAL	155078.4	155078.4	106 %		19:53:29
3	Al 396.153Radial†	25069.2	23593.8	5127.8 µg/L	5127.8 ppb	19:53:29
3	Ca 317.933Radial†	90380.5	84330.2	4941.4 µg/L	4941.4 ppb	19:53:29
3	Fe 238.204 Radial†	78812.3	73960.4	4917.1 µg/L	4917.1 ppb	19:53:29
3	K 766.490 Radial†	14162.7	11856.1	4876.9 µg/L	4876.9 ppb	19:53:29
3	Mg 279.077 IEC†	13255.0	12271.4	5067.2 µg/L	5067.2 ppb	19:53:29
3	Na 589.592 Radial†	70378.5	64452.3	9857.7 µg/L	9857.7 ppb	19:53:29
3	Sr 421.552†	229789.0	216250.9	506.80 µg/L	506.80 ppb	19:53:27
3	Sc 361.383	1754221.5	1754221.5	104.87 %		19:54:20
3	Y 371.029	1065517.6	1065517.6	104.20 %		19:54:20
3	Ag 328.068†	129249.8	120281.8	494.30 µg/L	494.30 ppb	19:54:20
3	As 188.979†	1278.2	1233.1	522.37 µg/L	522.37 ppb	19:54:40
3	B 249.677†	33485.8	28575.4	478.06 µg/L	478.06 ppb	19:54:20
3	Ba 233.527†	113649.5	108547.9	496.28 µg/L	496.28 ppb	19:54:20
3	Be 313.107†	1620552.1	1545971.4	503.38 µg/L	503.38 ppb	19:54:20
3	Cd 226.502†	72839.4	69552.0	479.99 µg/L	479.99 ppb	19:54:20
3	Co 228.616†	36967.6	35427.9	485.37 µg/L	485.37 ppb	19:54:20
3	Cr 267.716†	59675.2	56744.3	487.25 µg/L	487.25 ppb	19:54:20
3	Cu 324.752†	120775.4	112743.0	491.64 µg/L	491.64 ppb	19:54:20
3	Mn 257.610†	375706.0	358182.3	489.22 µg/L	489.22 ppb	19:54:20
3	Mo 202.031†	15964.1	15278.1	482.72 µg/L	482.72 ppb	19:54:40
3	Ni 231.604†	39857.9	38048.2	486.68 µg/L	486.68 ppb	19:54:20
3	P 214.914†	10507.5	9940.1	2372.1 µg/L	2372.1 ppb	19:54:40
3	Pb 220.353†	8449.2	7944.5	482.78 µg/L	482.78 ppb	19:54:40
3	S 181.975 Axial†	1329.7	1173.2	954.54 µg/L	954.54 ppb	19:54:40
3	Sb 206.836†	3845.9	3580.7	484.06 µg/L	484.06 ppb	19:54:40
3	Se 196.026†	1261.3	1191.8	474 µg/L	474 ppb	19:54:40
3	SiO2†	51759.5	47783.5	5202.0 µg/L	5202.0 ppb	19:54:20
3	Si 251.611†	155480.2	147585.0	2430.6 µg/L	2430.6 ppb	19:54:20
3	Sn 189.927†	7188.1	6852.4	488.80 µg/L	488.80 ppb	19:54:40
3	Ti 334.940†	505136.1	481046.7	489.87 µg/L	489.87 ppb	19:54:20
3	Tl 190.801†	3646.0	3597.0	490.19 µg/L	490.19 ppb	19:54:40
3	U 409.014†	7585.0	7711.9	506.54 µg/L	506.54 ppb	19:54:20
3	V 292.402†	93415.0	88646.0	497.89 µg/L	497.89 ppb	19:54:20
3	Zn 213.857†	80914.4	76693.2	478.93 µg/L	478.93 ppb	19:54:20

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1752467.3	104.76 %	0.151			0.14%
Sc RADIAL	155716.9	107 %	0.4			0.37%
Y 371.029	1064543.2	104.10 %	0.150			0.14%
Ag 328.068†	120529.2	495.29 µg/L	1.342	495.29 ppb	1.342	0.27%
QC value within limits for Ag 328.068 Recovery = 99.06%						
Al 396.153Radial†	23721.5	5155.7 µg/L	24.12	5155.7 ppb	24.12	0.47%
QC value within limits for Al 396.153Radial Recovery = 103.11%						
As 188.979†	1228.0	520.27 µg/L	4.583	520.27 ppb	4.583	0.88%
QC value within limits for As 188.979 Recovery = 104.05%						
B 249.677†	28529.8	477.29 µg/L	0.884	477.29 ppb	0.884	0.19%
QC value within limits for B 249.677 Recovery = 95.46%						
Ba 233.527†	108854.7	497.68 µg/L	1.325	497.68 ppb	1.325	0.27%
QC value within limits for Ba 233.527 Recovery = 99.54%						
Be 313.107†	1548756.1	504.29 µg/L	0.798	504.29 ppb	0.798	0.16%
QC value within limits for Be 313.107 Recovery = 100.86%						
Ca 317.933Radial†	84403.4	4945.7 µg/L	4.42	4945.7 ppb	4.42	0.09%
QC value within limits for Ca 317.933Radial Recovery = 98.91%						
Cd 226.502†	69683.6	480.90 µg/L	0.952	480.90 ppb	0.952	0.20%
QC value within limits for Cd 226.502 Recovery = 96.18%						
Co 228.616†	35446.5	485.63 µg/L	0.223	485.63 ppb	0.223	0.05%

QC value within limits for Co 228.616 Recovery = 97.13%					
Cr 267.716†	56838.6	488.07 µg/L	0.888	488.07 ppb	0.888 0.18%
QC value within limits for Cr 267.716 Recovery = 97.61%					
Cu 324.752†	112822.1	491.97 µg/L	0.803	491.97 ppb	0.803 0.16%
QC value within limits for Cu 324.752 Recovery = 98.39%					
Fe 238.204 Radial†	73925.1	4914.8 µg/L	8.52	4914.8 ppb	8.52 0.17%
QC value within limits for Fe 238.204 Radial Recovery = 98.30%					
K 766.490 Radial†	11753.1	4834.4 µg/L	41.46	4834.4 ppb	41.46 0.86%
QC value within limits for K 766.490 Radial Recovery = 96.69%					
Mg 279.077 IEC†	12257.5	5061.5 µg/L	10.75	5061.5 ppb	10.75 0.21%
QC value within limits for Mg 279.077 IEC Recovery = 101.23%					
Mn 257.610†	358756.8	490.01 µg/L	0.777	490.01 ppb	0.777 0.16%
QC value within limits for Mn 257.610 Recovery = 98.00%					
Mo 202.031†	15284.5	482.92 µg/L	0.226	482.92 ppb	0.226 0.05%
QC value within limits for Mo 202.031 Recovery = 96.58%					
Na 589.592 Radial†	64454.9	9858.1 µg/L	9.01	9858.1 ppb	9.01 0.09%
QC value within limits for Na 589.592 Radial Recovery = 98.58%					
Ni 231.604†	38097.1	487.31 µg/L	0.879	487.31 ppb	0.879 0.18%
QC value within limits for Ni 231.604 Recovery = 97.46%					
P 214.914†	9923.5	2368.1 µg/L	5.81	2368.1 ppb	5.81 0.25%
QC value within limits for P 214.914 Recovery = 94.72%					
Pb 220.353†	7918.0	481.20 µg/L	1.563	481.20 ppb	1.563 0.32%
QC value within limits for Pb 220.353 Recovery = 96.24%					
S 181.975 Axial†	1157.0	941.47 µg/L	13.693	941.47 ppb	13.693 1.45%
QC value within limits for S 181.975 Axial Recovery = 94.15%					
Sb 206.836†	3593.5	485.78 µg/L	1.923	485.78 ppb	1.923 0.40%
QC value within limits for Sb 206.836 Recovery = 97.16%					
Se 196.026†	1197.9	476 µg/L	2.3	476 ppb	2.3 0.48%
QC value within limits for Se 196.026 Recovery = 95.20%					
SiO2†	47942.4	5219.4 µg/L	15.27	5219.4 ppb	15.27 0.29%
QC value within limits for SiO2 Recovery = 97.60%					
Si 251.611†	147885.2	2435.6 µg/L	5.51	2435.6 ppb	5.51 0.23%
QC value within limits for Si 251.611 Recovery = 97.42%					
Sn 189.927†	6826.1	486.94 µg/L	1.623	486.94 ppb	1.623 0.33%
QC value within limits for Sn 189.927 Recovery = 97.39%					
Sr 421.552†	216114.0	506.48 µg/L	2.501	506.48 ppb	2.501 0.49%
QC value within limits for Sr 421.552 Recovery = 101.30%					
Ti 334.940†	482041.8	490.89 µg/L	1.088	490.89 ppb	1.088 0.22%
QC value within limits for Ti 334.940 Recovery = 98.18%					
Tl 190.801†	3590.8	489.38 µg/L	0.983	489.38 ppb	0.983 0.20%
QC value within limits for Tl 190.801 Recovery = 97.88%					
U 409.014†	7493.2	493.05 µg/L	12.247	493.05 ppb	12.247 2.48%
QC value within limits for U 409.014 Recovery = 98.61%					
V 292.402†	88728.8	498.35 µg/L	0.611	498.35 ppb	0.611 0.12%
QC value within limits for V 292.402 Recovery = 99.67%					
Zn 213.857†	76678.1	478.83 µg/L	0.858	478.83 ppb	0.858 0.18%
QC value within limits for Zn 213.857 Recovery = 95.77%					

All analyte(s) passed QC.

Sequence No.: 19

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/29/2010 19:54:47

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	157224.0	157224.0	108 %		19:55:16
1	Al 396.153Radial†	-32.4	1.9	0.3819 µg/L	0.3819 ppb	19:55:36
1	Ca 317.933Radial†	709.9	41.9	2.4560 µg/L	2.4560 ppb	19:55:36
1	Fe 238.204 Radial†	168.7	43.1	2.8662 µg/L	2.8662 ppb	19:55:36
1	K 766.490 Radial†	1483.0	-80.2	-33.015 µg/L	-33.015 ppb	19:55:16
1	Mg 279.077 IEC†	179.6	-20.2	-8.3135 µg/L	-8.3135 ppb	19:55:36
1	Na 589.592 Radial†	1705.0	-114.1	-17.428 µg/L	-17.428 ppb	19:55:16
1	Sr 421.552†	-122.3	164.6	0.3859 µg/L	0.3859 ppb	19:55:16
1	Sc 361.383	1744373.3	1744373.3	104.28 %		19:56:24
1	Y 371.029	1071958.2	1071958.2	104.83 %		19:56:24
1	Ag 328.068†	3041.9	-50.0	-0.2039 µg/L	-0.2039 ppb	19:56:26
1	As 188.979†	-16.7	-1.8	-0.7391 µg/L	-0.7391 ppb	19:56:46
1	B 249.677†	3115.7	-367.9	-6.1751 µg/L	-6.1751 ppb	19:56:46
1	Ba 233.527†	-172.9	9.3	0.0420 µg/L	0.0420 ppb	19:56:46
1	Be 313.107†	-510.3	170.7	0.0584 µg/L	0.0584 ppb	19:56:26
1	Cd 226.502†	-91.2	6.9	0.0476 µg/L	0.0476 ppb	19:56:46
1	Co 228.616†	-200.7	-15.9	-0.2172 µg/L	-0.2172 ppb	19:56:46
1	Cr 267.716†	193.2	25.0	0.2074 µg/L	0.2074 ppb	19:56:46
1	Cu 324.752†	2573.6	43.1	0.1952 µg/L	0.1952 ppb	19:56:26
1	Mn 257.610†	146.1	60.1	0.0824 µg/L	0.0824 ppb	19:56:46
1	Mo 202.031†	-38.9	17.9	0.5656 µg/L	0.5656 ppb	19:56:46
1	Ni 231.604†	-15.8	25.7	0.3290 µg/L	0.3290 ppb	19:56:46
1	P 214.914†	40.8	-40.5	-9.7010 µg/L	-9.7010 ppb	19:56:46
1	Pb 220.353†	105.0	-11.7	-0.7153 µg/L	-0.7153 ppb	19:56:46
1	S 181.975 Axial†	80.4	-17.8	-14.383 µg/L	-14.383 ppb	19:56:46
1	Sb 206.836†	78.7	-11.2	-1.5082 µg/L	-1.5082 ppb	19:56:46
1	Se 196.026†	26.3	14.3	5.65 µg/L	5.65 ppb	19:56:46
1	SiO2†	1648.2	7.7	0.8224 µg/L	0.8224 ppb	19:56:46
1	Si 251.611†	791.8	83.0	1.3617 µg/L	1.3617 ppb	19:56:46
1	Sn 189.927†	7.8	5.5	0.3882 µg/L	0.3882 ppb	19:56:46
1	Ti 334.940†	798.2	129.1	0.1285 µg/L	0.1285 ppb	19:56:26
1	Tl 190.801†	-105.6	19.0	2.5510 µg/L	2.5510 ppb	19:56:46
1	U 409.014†	-340.6	152.4	9.3589 µg/L	9.3589 ppb	19:56:26
1	V 292.402†	251.4	-190.7	-1.0454 µg/L	-1.0454 ppb	19:56:26
1	Zn 213.857†	524.6	38.6	0.2408 µg/L	0.2408 ppb	19:56:46
2	Sc RADIAL	153604.9	153604.9	105 %		19:55:38
2	Al 396.153Radial†	-40.7	-6.7	-1.5003 µg/L	-1.5003 ppb	19:55:58
2	Ca 317.933Radial†	698.2	46.3	2.7145 µg/L	2.7145 ppb	19:55:58
2	Fe 238.204 Radial†	160.1	38.6	2.5686 µg/L	2.5686 ppb	19:55:58
2	K 766.490 Radial†	1640.2	101.4	41.741 µg/L	41.741 ppb	19:55:38
2	Mg 279.077 IEC†	170.0	-25.4	-10.448 µg/L	-10.448 ppb	19:55:58
2	Na 589.592 Radial†	1652.3	-126.9	-19.447 µg/L	-19.447 ppb	19:55:38
2	Sr 421.552†	-170.5	116.2	0.2723 µg/L	0.2723 ppb	19:55:38
2	Sc 361.383	1769862.2	1769862.2	105.80 %		19:56:48
2	Y 371.029	1086957.3	1086957.3	106.30 %		19:56:48
2	Ag 328.068†	3055.4	-79.2	-0.3279 µg/L	-0.3279 ppb	19:56:50
2	As 188.979†	-3.9	10.5	4.3943 µg/L	4.3943 ppb	19:57:10
2	B 249.677†	3116.6	-410.1	-6.8860 µg/L	-6.8860 ppb	19:57:10
2	Ba 233.527†	-159.5	24.3	0.1105 µg/L	0.1105 ppb	19:57:10
2	Be 313.107†	-578.9	112.9	0.0378 µg/L	0.0378 ppb	19:56:50
2	Cd 226.502†	-100.7	-0.8	-0.0060 µg/L	-0.0060 ppb	19:57:10
2	Co 228.616†	-154.1	30.9	0.4233 µg/L	0.4233 ppb	19:57:10
2	Cr 267.716†	158.7	-10.2	-0.0909 µg/L	-0.0909 ppb	19:57:10
2	Cu 324.752†	2676.8	105.1	0.4602 µg/L	0.4602 ppb	19:56:50
2	Mn 257.610†	145.1	57.2	0.0785 µg/L	0.0785 ppb	19:57:10
2	Mo 202.031†	-36.1	21.0	0.6639 µg/L	0.6639 ppb	19:57:10
2	Ni 231.604†	-68.7	-24.1	-0.3078 µg/L	-0.3078 ppb	19:57:10
2	P 214.914†	59.6	-23.2	-5.5807 µg/L	-5.5807 ppb	19:57:10
2	Pb 220.353†	97.2	-20.5	-1.2440 µg/L	-1.2440 ppb	19:57:10

2	S 181.975 Axial†	84.9	-14.6	-11.787 µg/L	-11.787 ppb	19:57:10
2	Sb 206.836†	96.3	4.4	0.6052 µg/L	0.6052 ppb	19:57:10
2	Se 196.026†	0.8	-10.2	-4.02 µg/L	-4.02 ppb	19:57:10
2	SiO2†	1672.2	7.6	0.8120 µg/L	0.8120 ppb	19:57:10
2	Si 251.611†	794.7	74.7	1.2254 µg/L	1.2254 ppb	19:57:10
2	Sn 189.927†	4.2	1.9	0.1385 µg/L	0.1385 ppb	19:57:10
2	Ti 334.940†	903.8	217.9	0.2217 µg/L	0.2217 ppb	19:56:50
2	Tl 190.801†	-111.2	15.2	2.0307 µg/L	2.0307 ppb	19:57:10
2	U 409.014†	-447.5	56.1	3.4153 µg/L	3.4153 ppb	19:56:50
2	V 292.402†	287.1	-160.5	-0.8820 µg/L	-0.8820 ppb	19:56:50
2	Zn 213.857†	515.3	22.6	0.1440 µg/L	0.1440 ppb	19:57:10
3	Sc RADIAL	153703.8	153703.8	105 %		19:56:00
3	Al 396.153Radial†	-49.3	-14.8	-3.2844 µg/L	-3.2844 ppb	19:56:20
3	Ca 317.933Radial†	710.1	57.2	3.3512 µg/L	3.3512 ppb	19:56:20
3	Fe 238.204 Radial†	142.7	22.1	1.4665 µg/L	1.4665 ppb	19:56:20
3	K 766.490 Radial†	1683.5	141.5	58.243 µg/L	58.243 ppb	19:56:00
3	Mg 279.077 IEC†	155.1	-39.6	-16.319 µg/L	-16.319 ppb	19:56:20
3	Na 589.592 Radial†	1574.2	-202.0	-30.955 µg/L	-30.955 ppb	19:56:00
3	Sr 421.552†	-284.4	8.3	0.0193 µg/L	0.0193 ppb	19:56:00
3	Sc 361.383	1752547.4	1752547.4	104.77 %		19:57:12
3	Y 371.029	1077428.7	1077428.7	105.36 %		19:57:12
3	Ag 328.068†	3055.4	-50.7	-0.2129 µg/L	-0.2129 ppb	19:57:14
3	As 188.979†	-12.7	2.2	0.9041 µg/L	0.9041 ppb	19:57:35
3	B 249.677†	3085.6	-410.5	-6.8921 µg/L	-6.8921 ppb	19:57:35
3	Ba 233.527†	-169.6	13.1	0.0597 µg/L	0.0597 ppb	19:57:35
3	Be 313.107†	-482.0	200.1	0.0664 µg/L	0.0664 ppb	19:57:14
3	Cd 226.502†	-116.9	-17.2	-0.1188 µg/L	-0.1188 ppb	19:57:35
3	Co 228.616†	-195.4	-9.9	-0.1357 µg/L	-0.1357 ppb	19:57:35
3	Cr 267.716†	143.5	-23.2	-0.2031 µg/L	-0.2031 ppb	19:57:35
3	Cu 324.752†	2562.2	20.7	0.0929 µg/L	0.0929 ppb	19:57:14
3	Mn 257.610†	158.6	71.4	0.0982 µg/L	0.0982 ppb	19:57:35
3	Mo 202.031†	-25.3	31.1	0.9808 µg/L	0.9808 ppb	19:57:35
3	Ni 231.604†	-42.1	0.8	0.0099 µg/L	0.0099 ppb	19:57:35
3	P 214.914†	71.3	-11.5	-2.7700 µg/L	-2.7700 ppb	19:57:35
3	Pb 220.353†	104.0	-13.2	-0.8002 µg/L	-0.8002 ppb	19:57:35
3	S 181.975 Axial†	83.8	-14.8	-11.977 µg/L	-11.977 ppb	19:57:35
3	Sb 206.836†	75.3	-14.7	-1.9710 µg/L	-1.9710 ppb	19:57:35
3	Se 196.026†	23.6	11.6	4.60 µg/L	4.60 ppb	19:57:35
3	SiO2†	1653.5	5.4	0.5590 µg/L	0.5590 ppb	19:57:35
3	Si 251.611†	763.9	52.8	0.8589 µg/L	0.8589 ppb	19:57:35
3	Sn 189.927†	2.7	0.5	0.0386 µg/L	0.0386 ppb	19:57:35
3	Ti 334.940†	894.4	217.4	0.2215 µg/L	0.2215 ppb	19:57:14
3	Tl 190.801†	-118.7	7.0	0.9364 µg/L	0.9364 ppb	19:57:35
3	U 409.014†	-431.7	67.1	4.0863 µg/L	4.0863 ppb	19:57:14
3	V 292.402†	259.2	-184.4	-1.0115 µg/L	-1.0115 ppb	19:57:14
3	Zn 213.857†	491.0	4.2	0.0263 µg/L	0.0263 ppb	19:57:35

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1755594.3	104.95 %	0.778			0.74%
Sc RADIAL	154844.2	106 %	1.4			1.33%
Y 371.029	1078781.4	105.50 %	0.742			0.70%
Ag 328.068†	-60.0	-0.2482 µg/L	0.06913	-0.2482 ppb	0.06913	27.85%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-6.6	-1.4676 µg/L	1.83335	-1.4676 ppb	1.83335	124.92%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.6	1.5198 µg/L	2.62149	1.5198 ppb	2.62149	172.49%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-396.2	-6.6511 µg/L	0.41221	-6.6511 ppb	0.41221	6.20%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	15.6	0.0707 µg/L	0.03556	0.0707 ppb	0.03556	50.28%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	161.2	0.0542 µg/L	0.01474	0.0542 ppb	0.01474	27.20%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	48.5	2.8406 µg/L	0.46071	2.8406 ppb	0.46071	16.22%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-3.7	-0.0257 µg/L	0.08491	-0.0257 ppb	0.08491	330.30%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	1.7	0.0235 µg/L	0.34867	0.0235 ppb	0.34867	>999.9%

Cr	267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
		-2.8	-0.0289 µg/L	0.21215	-0.0289 ppb	0.21215 734.89%
		QC value within limits for Cr 267.716	Recovery = Not calculated			
Cu	324.752†	56.3	0.2495 µg/L	0.18957	0.2495 ppb	0.18957 75.99%
		QC value within limits for Cu 324.752	Recovery = Not calculated			
Fe	238.204 Radial†	34.6	2.3004 µg/L	0.73735	2.3004 ppb	0.73735 32.05%
		QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
K	766.490 Radial†	54.2	22.323 µg/L	48.6295	22.323 ppb	48.6295 217.84%
		QC value within limits for K 766.490 Radial	Recovery = Not calculated			
Mg	279.077 IEC†	-28.4	-11.693 µg/L	4.1454	-11.693 ppb	4.1454 35.45%
		QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
Mn	257.610†	62.9	0.0864 µg/L	0.01044	0.0864 ppb	0.01044 12.09%
		QC value within limits for Mn 257.610	Recovery = Not calculated			
Mo	202.031†	23.4	0.7368 µg/L	0.21697	0.7368 ppb	0.21697 29.45%
		QC value within limits for Mo 202.031	Recovery = Not calculated			
Na	589.592 Radial†	-147.6	-22.610 µg/L	7.2970	-22.610 ppb	7.2970 32.27%
		QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
Ni	231.604†	0.8	0.0104 µg/L	0.31844	0.0104 ppb	0.31844 >999.9%
		QC value within limits for Ni 231.604	Recovery = Not calculated			
P	214.914†	-25.1	-6.0172 µg/L	3.48607	-6.0172 ppb	3.48607 57.93%
		QC value within limits for P 214.914	Recovery = Not calculated			
Pb	220.353†	-15.2	-0.9198 µg/L	0.28391	-0.9198 ppb	0.28391 30.87%
		QC value within limits for Pb 220.353	Recovery = Not calculated			
S	181.975 Axial†	-15.7	-12.716 µg/L	1.4469	-12.716 ppb	1.4469 11.38%
		QC value within limits for S 181.975 Axial	Recovery = Not calculated			
Sb	206.836†	-7.2	-0.9580 µg/L	1.37341	-0.9580 ppb	1.37341 143.36%
		QC value within limits for Sb 206.836	Recovery = Not calculated			
Se	196.026†	5.2	2.08 µg/L	5.305	2.08 ppb	5.305 255.01%
		QC value within limits for Se 196.026	Recovery = Not calculated			
SiO2†		6.9	0.7311 µg/L	0.14916	0.7311 ppb	0.14916 20.40%
		QC value within limits for SiO2	Recovery = Not calculated			
Si	251.611†	70.1	1.1487 µg/L	0.26000	1.1487 ppb	0.26000 22.64%
		QC value within limits for Si 251.611	Recovery = Not calculated			
Sn	189.927†	2.6	0.1884 µg/L	0.18007	0.1884 ppb	0.18007 95.55%
		QC value within limits for Sn 189.927	Recovery = Not calculated			
Sr	421.552†	96.4	0.2258 µg/L	0.18764	0.2258 ppb	0.18764 83.09%
		QC value within limits for Sr 421.552	Recovery = Not calculated			
Ti	334.940†	188.1	0.1905 µg/L	0.05374	0.1905 ppb	0.05374 28.21%
		QC value within limits for Ti 334.940	Recovery = Not calculated			
Tl	190.801†	13.7	1.8394 µg/L	0.82412	1.8394 ppb	0.82412 44.80%
		QC value within limits for Tl 190.801	Recovery = Not calculated			
U	409.014†	91.9	5.6202 µg/L	3.25513	5.6202 ppb	3.25513 57.92%
		QC value within limits for U 409.014	Recovery = Not calculated			
V	292.402†	-178.5	-0.9796 µg/L	0.08622	-0.9796 ppb	0.08622 8.80%
		QC value within limits for V 292.402	Recovery = Not calculated			
Zn	213.857†	21.8	0.1370 µg/L	0.10743	0.1370 ppb	0.10743 78.42%
		QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 28

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/29/2010 20:14:40

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	158830.4	158830.4	109 %		20:15:13
1	Al 396.153Radial†	25834.9	23739.9	5159.6 µg/L	5159.6 ppb	20:15:13
1	Ca 317.933Radial†	92141.6	83939.6	4918.5 µg/L	4918.5 ppb	20:15:13
1	Fe 238.204 Radial†	80227.4	73509.2	4887.1 µg/L	4887.1 ppb	20:15:13
1	K 766.490 Radial†	14250.9	11622.7	4780.8 µg/L	4780.8 ppb	20:15:13
1	Mg 279.077 IEC†	13509.5	12210.6	5042.2 µg/L	5042.2 ppb	20:15:13
1	Na 589.592 Radial†	71473.6	63894.6	9772.4 µg/L	9772.4 ppb	20:15:13
1	Sr 421.552†	233067.3	214157.3	501.89 µg/L	501.89 ppb	20:15:11
1	Sc 361.383	1758890.2	1758890.2	105.15 %		20:15:40
1	Y 371.029	1068006.2	1068006.2	104.44 %		20:15:40
1	Ag 328.068†	130795.7	121424.9	498.97 µg/L	498.97 ppb	20:15:40
1	As 188.979†	1305.1	1255.5	531.78 µg/L	531.78 ppb	20:16:00
1	B 249.677†	33757.2	28748.7	480.95 µg/L	480.95 ppb	20:15:40
1	Ba 233.527†	115387.0	109912.7	502.52 µg/L	502.52 ppb	20:15:40
1	Be 313.107†	1647211.3	1567223.6	510.30 µg/L	510.30 ppb	20:15:40
1	Cd 226.502†	73776.2	70258.5	484.88 µg/L	484.88 ppb	20:15:40
1	Co 228.616†	37405.4	35750.6	489.80 µg/L	489.80 ppb	20:15:40
1	Cr 267.716†	60425.3	57306.6	492.09 µg/L	492.09 ppb	20:15:40
1	Cu 324.752†	122063.0	113661.9	495.62 µg/L	495.62 ppb	20:15:40
1	Mn 257.610†	380412.8	361707.7	494.04 µg/L	494.04 ppb	20:15:40
1	Mo 202.031†	16080.3	15348.2	484.94 µg/L	484.94 ppb	20:16:00
1	Ni 231.604†	40320.7	38387.5	491.02 µg/L	491.02 ppb	20:15:40
1	P 214.914†	10614.3	10015.1	2390.0 µg/L	2390.0 ppb	20:16:00
1	Pb 220.353†	8478.6	7951.1	483.21 µg/L	483.21 ppb	20:16:00
1	S 181.975 Axial†	1339.7	1179.2	959.49 µg/L	959.49 ppb	20:16:00
1	Sb 206.836†	3893.5	3616.2	488.83 µg/L	488.83 ppb	20:16:00
1	Se 196.026†	1283.0	1209.3	480 µg/L	480 ppb	20:16:00
1	SiO2†	52444.4	48303.9	5258.8 µg/L	5258.8 ppb	20:15:40
1	Si 251.611†	157396.1	149013.5	2454.2 µg/L	2454.2 ppb	20:15:40
1	Sn 189.927†	7240.5	6884.0	491.06 µg/L	491.06 ppb	20:16:00
1	Ti 334.940†	511382.1	485708.4	494.63 µg/L	494.63 ppb	20:15:40
1	Tl 190.801†	3660.5	3601.6	490.88 µg/L	490.88 ppb	20:16:00
1	U 409.014†	7375.4	7493.4	493.30 µg/L	493.30 ppb	20:15:40
1	V 292.402†	94413.5	89359.2	501.88 µg/L	501.88 ppb	20:15:40
1	Zn 213.857†	81706.6	77241.8	482.36 µg/L	482.36 ppb	20:15:40
2	Sc RADIAL	157495.3	157495.3	108 %		20:15:18
2	Al 396.153Radial†	25706.5	23822.0	5177.5 µg/L	5177.5 ppb	20:15:18
2	Ca 317.933Radial†	91510.6	84072.4	4926.3 µg/L	4926.3 ppb	20:15:18
2	Fe 238.204 Radial†	79745.5	73687.3	4899.0 µg/L	4899.0 ppb	20:15:18
2	K 766.490 Radial†	14109.0	11602.1	4772.3 µg/L	4772.3 ppb	20:15:18
2	Mg 279.077 IEC†	13430.6	12242.7	5055.5 µg/L	5055.5 ppb	20:15:18
2	Na 589.592 Radial†	70962.0	63977.1	9785.1 µg/L	9785.1 ppb	20:15:18
2	Sr 421.552†	232192.9	215161.2	504.24 µg/L	504.24 ppb	20:15:16
2	Sc 361.383	1762035.0	1762035.0	105.34 %		20:16:04
2	Y 371.029	1068713.1	1068713.1	104.51 %		20:16:04
2	Ag 328.068†	130782.3	121190.1	498.00 µg/L	498.00 ppb	20:16:04
2	As 188.979†	1306.9	1255.0	531.56 µg/L	531.56 ppb	20:16:24
2	B 249.677†	33992.4	28914.7	483.74 µg/L	483.74 ppb	20:16:04
2	Ba 233.527†	115511.3	109834.8	502.16 µg/L	502.16 ppb	20:16:04
2	Be 313.107†	1645684.7	1562978.3	508.91 µg/L	508.91 ppb	20:16:04
2	Cd 226.502†	74022.3	70366.9	485.63 µg/L	485.63 ppb	20:16:04
2	Co 228.616†	37443.2	35723.0	489.42 µg/L	489.42 ppb	20:16:04
2	Cr 267.716†	60364.6	57146.4	490.71 µg/L	490.71 ppb	20:16:04
2	Cu 324.752†	122082.7	113473.4	494.80 µg/L	494.80 ppb	20:16:04
2	Mn 257.610†	380150.5	360813.0	492.82 µg/L	492.82 ppb	20:16:04
2	Mo 202.031†	16156.3	15393.1	486.35 µg/L	486.35 ppb	20:16:24
2	Ni 231.604†	40290.4	38290.3	489.78 µg/L	489.78 ppb	20:16:04
2	P 214.914†	10621.1	10003.5	2387.2 µg/L	2387.2 ppb	20:16:24
2	Pb 220.353†	8535.7	7990.8	485.62 µg/L	485.62 ppb	20:16:24

2	S 181.975 Axial†	1326.2	1164.2	947.33 µg/L	947.33 ppb	20:16:24
2	Sb 206.836†	3900.6	3616.4	488.88 µg/L	488.88 ppb	20:16:24
2	Se 196.026†	1284.8	1208.8	480 µg/L	480 ppb	20:16:24
2	SiO2†	52491.8	48259.9	5253.9 µg/L	5253.9 ppb	20:16:04
2	Si 251.611†	157382.7	148733.6	2449.6 µg/L	2449.6 ppb	20:16:04
2	Sn 189.927†	7227.9	6859.8	489.33 µg/L	489.33 ppb	20:16:24
2	Ti 334.940†	511020.6	484497.1	493.40 µg/L	493.40 ppb	20:16:04
2	Tl 190.801†	3689.6	3623.0	493.72 µg/L	493.72 ppb	20:16:24
2	U 409.014†	7356.3	7462.8	491.32 µg/L	491.32 ppb	20:16:04
2	V 292.402†	94327.3	89117.0	500.55 µg/L	500.55 ppb	20:16:04
2	Zn 213.857†	81870.2	77258.4	482.47 µg/L	482.47 ppb	20:16:04
3	Sc RADIAL	156537.6	156537.6	107 %		20:15:22
3	Al 396.153Radial†	25645.9	23911.1	5196.9 µg/L	5196.9 ppb	20:15:22
3	Ca 317.933Radial†	91188.8	84290.9	4939.1 µg/L	4939.1 ppb	20:15:22
3	Fe 238.204 Radial†	79529.7	73937.9	4915.6 µg/L	4915.6 ppb	20:15:22
3	K 766.490 Radial†	14092.0	11666.3	4798.7 µg/L	4798.7 ppb	20:15:22
3	Mg 279.077 IEC†	13237.8	12139.2	5012.8 µg/L	5012.8 ppb	20:15:22
3	Na 589.592 Radial†	70964.3	64381.0	9846.9 µg/L	9846.9 ppb	20:15:22
3	Sr 421.552†	233615.3	217800.3	510.43 µg/L	510.43 ppb	20:15:20
3	Sc 361.383	1760601.0	1760601.0	105.25 %		20:16:27
3	Y 371.029	1068160.3	1068160.3	104.46 %		20:16:27
3	Ag 328.068†	130523.2	121045.1	497.39 µg/L	497.39 ppb	20:16:27
3	As 188.979†	1312.2	1261.0	534.08 µg/L	534.08 ppb	20:16:47
3	B 249.677†	33684.6	28648.5	479.28 µg/L	479.28 ppb	20:16:27
3	Ba 233.527†	115155.8	109586.4	501.03 µg/L	501.03 ppb	20:16:27
3	Be 313.107†	1645527.7	1564101.6	509.28 µg/L	509.28 ppb	20:16:27
3	Cd 226.502†	73929.1	70335.6	485.41 µg/L	485.41 ppb	20:16:27
3	Co 228.616†	37338.0	35652.0	488.45 µg/L	488.45 ppb	20:16:27
3	Cr 267.716†	60447.8	57272.2	491.80 µg/L	491.80 ppb	20:16:27
3	Cu 324.752†	121740.8	113243.0	493.79 µg/L	493.79 ppb	20:16:27
3	Mn 257.610†	379672.2	360652.5	492.60 µg/L	492.60 ppb	20:16:27
3	Mo 202.031†	16168.3	15416.9	487.10 µg/L	487.10 ppb	20:16:47
3	Ni 231.604†	40268.9	38301.0	489.91 µg/L	489.91 ppb	20:16:27
3	P 214.914†	10675.3	10063.2	2401.6 µg/L	2401.6 ppb	20:16:47
3	Pb 220.353†	8520.4	7982.9	485.15 µg/L	485.15 ppb	20:16:47
3	S 181.975 Axial†	1321.3	1160.6	944.41 µg/L	944.41 ppb	20:16:47
3	Sb 206.836†	3929.7	3647.1	493.02 µg/L	493.02 ppb	20:16:47
3	Se 196.026†	1275.2	1200.7	477 µg/L	477 ppb	20:16:47
3	SiO2†	52357.5	48172.8	5244.4 µg/L	5244.4 ppb	20:16:27
3	Si 251.611†	157210.8	148692.0	2448.9 µg/L	2448.9 ppb	20:16:27
3	Sn 189.927†	7259.6	6895.4	491.87 µg/L	491.87 ppb	20:16:47
3	Ti 334.940†	509954.6	483879.4	492.77 µg/L	492.77 ppb	20:16:27
3	Tl 190.801†	3695.1	3631.0	494.80 µg/L	494.80 ppb	20:16:47
3	U 409.014†	7240.3	7358.2	484.82 µg/L	484.82 ppb	20:16:27
3	V 292.402†	94156.3	89027.6	500.06 µg/L	500.06 ppb	20:16:27
3	Zn 213.857†	81777.8	77234.0	482.31 µg/L	482.31 ppb	20:16:27

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1760508.7	105.24 %	0.094			0.09%
Sc RADIAL	157621.1	108 %	0.8			0.73%
Y 371.029	1068293.2	104.47 %	0.036			0.03%
Ag 328.068†	121220.0	498.12 µg/L	0.794	498.12 ppb	0.794	0.16%
QC value within limits for Ag 328.068 Recovery = 99.62%						
Al 396.153Radial†	23824.3	5178.0 µg/L	18.65	5178.0 ppb	18.65	0.36%
QC value within limits for Al 396.153Radial Recovery = 103.56%						
As 188.979†	1257.1	532.47 µg/L	1.398	532.47 ppb	1.398	0.26%
QC value within limits for As 188.979 Recovery = 106.49%						
B 249.677†	28770.7	481.32 µg/L	2.255	481.32 ppb	2.255	0.47%
QC value within limits for B 249.677 Recovery = 96.26%						
Ba 233.527†	109778.0	501.91 µg/L	0.779	501.91 ppb	0.779	0.16%
QC value within limits for Ba 233.527 Recovery = 100.38%						
Be 313.107†	1564767.8	509.50 µg/L	0.717	509.50 ppb	0.717	0.14%
QC value within limits for Be 313.107 Recovery = 101.90%						
Ca 317.933Radial†	84101.0	4928.0 µg/L	10.39	4928.0 ppb	10.39	0.21%
QC value within limits for Ca 317.933Radial Recovery = 98.56%						
Cd 226.502†	70320.3	485.30 µg/L	0.384	485.30 ppb	0.384	0.08%
QC value within limits for Cd 226.502 Recovery = 97.06%						
Co 228.616†	35708.6	489.22 µg/L	0.698	489.22 ppb	0.698	0.14%

Cr	267.716†	57241.7	491.53 µg/L	0.725	491.53 ppb	0.725	0.15%
Cu	324.752†	113459.4	494.74 µg/L	0.914	494.74 ppb	0.914	0.18%
Fe	238.204 Radial†	73711.5	4900.6 µg/L	14.32	4900.6 ppb	14.32	0.29%
K	766.490 Radial†	11630.4	4783.9 µg/L	13.48	4783.9 ppb	13.48	0.28%
Mg	279.077 IEC†	12197.5	5036.8 µg/L	21.85	5036.8 ppb	21.85	0.43%
Mn	257.610†	361057.7	493.15 µg/L	0.777	493.15 ppb	0.777	0.16%
Mo	202.031†	15386.1	486.13 µg/L	1.101	486.13 ppb	1.101	0.23%
Na	589.592 Radial†	64084.3	9801.5 µg/L	39.82	9801.5 ppb	39.82	0.41%
Ni	231.604†	38326.3	490.24 µg/L	0.682	490.24 ppb	0.682	0.14%
P	214.914†	10027.2	2392.9 µg/L	7.59	2392.9 ppb	7.59	0.32%
Pb	220.353†	7974.9	484.66 µg/L	1.279	484.66 ppb	1.279	0.26%
S	181.975 Axial†	1168.0	950.41 µg/L	8.003	950.41 ppb	8.003	0.84%
Sb	206.836†	3626.6	490.24 µg/L	2.403	490.24 ppb	2.403	0.49%
Se	196.026†	1206.3	479 µg/L	1.9	479 ppb	1.9	0.40%
SiO2†		48245.5	5252.4 µg/L	7.33	5252.4 ppb	7.33	0.14%
Si	251.611†	148813.1	2450.9 µg/L	2.90	2450.9 ppb	2.90	0.12%
Sn	189.927†	6879.7	490.75 µg/L	1.293	490.75 ppb	1.293	0.26%
Sr	421.552†	215706.3	505.52 µg/L	4.410	505.52 ppb	4.410	0.87%
Ti	334.940†	484695.0	493.60 µg/L	0.946	493.60 ppb	0.946	0.19%
Tl	190.801†	3618.5	493.13 µg/L	2.027	493.13 ppb	2.027	0.41%
U	409.014†	7438.1	489.81 µg/L	4.433	489.81 ppb	4.433	0.91%
V	292.402†	89167.9	500.83 µg/L	0.945	500.83 ppb	0.945	0.19%
Zn	213.857†	77244.7	482.38 µg/L	0.080	482.38 ppb	0.080	0.02%

QC value within limits for Co 228.616 Recovery = 97.84%

QC value within limits for Cr 267.716 Recovery = 98.31%

QC value within limits for Cu 324.752 Recovery = 98.95%

QC value within limits for Fe 238.204 Radial Recovery = 98.01%

QC value within limits for K 766.490 Radial Recovery = 95.68%

QC value within limits for Mg 279.077 IEC Recovery = 100.74%

QC value within limits for Mn 257.610 Recovery = 98.63%

QC value within limits for Mo 202.031 Recovery = 97.23%

QC value within limits for Na 589.592 Radial Recovery = 98.01%

QC value within limits for Ni 231.604 Recovery = 98.05%

QC value within limits for P 214.914 Recovery = 95.72%

QC value within limits for Pb 220.353 Recovery = 96.93%

QC value within limits for S 181.975 Axial Recovery = 95.04%

QC value within limits for Sb 206.836 Recovery = 98.05%

QC value within limits for Se 196.026 Recovery = 95.86%

QC value within limits for SiO2 Recovery = 98.22%

QC value within limits for Si 251.611 Recovery = 98.04%

QC value within limits for Sn 189.927 Recovery = 98.15%

QC value within limits for Sr 421.552 Recovery = 101.10%

QC value within limits for Ti 334.940 Recovery = 98.72%

QC value within limits for Tl 190.801 Recovery = 98.63%

QC value within limits for U 409.014 Recovery = 97.96%

QC value within limits for V 292.402 Recovery = 100.17%

QC value within limits for Zn 213.857 Recovery = 96.48%

All analyte(s) passed QC.

Sequence No.: 29

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/29/2010 20:16:54

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	158157.7	158157.7	109 %		20:17:23
1	Al 396.153Radial†	-63.6	-26.8	-5.8638 µg/L	-5.8638 ppb	20:17:43
1	Ca 317.933Radial†	734.1	60.4	3.5365 µg/L	3.5365 ppb	20:17:43
1	Fe 238.204 Radial†	186.1	58.3	3.8728 µg/L	3.8728 ppb	20:17:43
1	K 766.490 Radial†	1649.8	65.4	26.926 µg/L	26.926 ppb	20:17:23
1	Mg 279.077 IEC†	176.6	-23.9	-9.8603 µg/L	-9.8603 ppb	20:17:43
1	Na 589.592 Radial†	1600.7	-219.6	-33.624 µg/L	-33.624 ppb	20:17:23
1	Sr 421.552†	-113.7	173.2	0.4058 µg/L	0.4058 ppb	20:17:23
1	Sc 361.383	1797162.4	1797162.4	107.44 %		20:18:45
1	Y 371.029	1101535.0	1101535.0	107.72 %		20:18:45
1	Ag 328.068†	3189.5	1.7	0.0181 µg/L	0.0181 ppb	20:18:47
1	As 188.979†	-18.7	-3.2	-1.3282 µg/L	-1.3282 ppb	20:19:07
1	B 249.677†	3164.5	-410.2	-6.8868 µg/L	-6.8868 ppb	20:19:07
1	Ba 233.527†	-166.3	20.3	0.0925 µg/L	0.0925 ppb	20:19:07
1	Be 313.107†	-796.9	-81.6	-0.0232 µg/L	-0.0232 ppb	20:18:47
1	Cd 226.502†	-88.5	12.1	0.0830 µg/L	0.0830 ppb	20:19:07
1	Co 228.616†	-182.6	6.7	0.0913 µg/L	0.0913 ppb	20:19:07
1	Cr 267.716†	146.8	-23.6	-0.2111 µg/L	-0.2111 ppb	20:19:07
1	Cu 324.752†	2533.1	-67.1	-0.2822 µg/L	-0.2822 ppb	20:18:47
1	Mn 257.610†	189.2	96.1	0.1316 µg/L	0.1316 ppb	20:19:07
1	Mo 202.031†	-43.6	14.6	0.4617 µg/L	0.4617 ppb	20:19:07
1	Ni 231.604†	-36.3	7.1	0.0912 µg/L	0.0912 ppb	20:19:07
1	P 214.914†	33.9	-48.0	-11.496 µg/L	-11.496 ppb	20:19:07
1	Pb 220.353†	106.6	-13.2	-0.8080 µg/L	-0.8080 ppb	20:19:07
1	S 181.975 Axial†	94.0	-7.3	-5.9118 µg/L	-5.9118 ppb	20:19:07
1	Sb 206.836†	77.5	-14.5	-1.9423 µg/L	-1.9423 ppb	20:19:07
1	Se 196.026†	26.1	13.3	5.29 µg/L	5.29 ppb	20:19:07
1	SiO2†	1703.2	12.4	1.3407 µg/L	1.3407 ppb	20:19:07
1	Si 251.611†	757.0	28.3	0.4592 µg/L	0.4592 ppb	20:19:07
1	Sn 189.927†	6.4	3.9	0.2796 µg/L	0.2796 ppb	20:19:07
1	Ti 334.940†	1092.2	380.2	0.3841 µg/L	0.3841 ppb	20:18:47
1	Tl 190.801†	-110.1	17.8	2.3981 µg/L	2.3981 ppb	20:19:07
1	U 409.014†	-322.2	179.2	11.064 µg/L	11.064 ppb	20:18:47
1	V 292.402†	429.3	-32.2	-0.1685 µg/L	-0.1685 ppb	20:18:47
1	Zn 213.857†	497.4	-1.5	-0.0099 µg/L	-0.0099 ppb	20:19:07
2	Sc RADIAL	155691.2	155691.2	107 %		20:17:45
2	Al 396.153Radial†	-30.3	3.5	0.7196 µg/L	0.7196 ppb	20:18:05
2	Ca 317.933Radial†	713.2	51.5	3.0148 µg/L	3.0148 ppb	20:18:05
2	Fe 238.204 Radial†	162.5	38.8	2.5826 µg/L	2.5826 ppb	20:18:05
2	K 766.490 Radial†	1523.5	-28.7	-11.809 µg/L	-11.809 ppb	20:17:45
2	Mg 279.077 IEC†	195.4	-3.7	-1.5189 µg/L	-1.5189 ppb	20:18:05
2	Na 589.592 Radial†	1538.6	-254.3	-38.906 µg/L	-38.906 ppb	20:17:45
2	Sr 421.552†	-172.2	116.8	0.2737 µg/L	0.2737 ppb	20:17:45
2	Sc 361.383	1776190.8	1776190.8	106.18 %		20:19:09
2	Y 371.029	1089581.5	1089581.5	106.55 %		20:19:09
2	Ag 328.068†	3209.2	55.3	0.2233 µg/L	0.2233 ppb	20:19:11
2	As 188.979†	-18.8	-3.4	-1.4319 µg/L	-1.4319 ppb	20:19:31
2	B 249.677†	3163.9	-376.0	-6.3128 µg/L	-6.3128 ppb	20:19:31
2	Ba 233.527†	-158.5	25.8	0.1177 µg/L	0.1177 ppb	20:19:31
2	Be 313.107†	-622.2	74.1	0.0253 µg/L	0.0253 ppb	20:19:11
2	Cd 226.502†	-71.9	26.7	0.1839 µg/L	0.1839 ppb	20:19:31
2	Co 228.616†	-183.6	3.7	0.0500 µg/L	0.0500 ppb	20:19:31
2	Cr 267.716†	166.1	-3.8	-0.0355 µg/L	-0.0355 ppb	20:19:31
2	Cu 324.752†	2626.6	48.8	0.2155 µg/L	0.2155 ppb	20:19:11
2	Mn 257.610†	203.0	111.2	0.1519 µg/L	0.1519 ppb	20:19:31
2	Mo 202.031†	-29.4	27.5	0.8686 µg/L	0.8686 ppb	20:19:31
2	Ni 231.604†	-58.1	-13.8	-0.1766 µg/L	-0.1766 ppb	20:19:31
2	P 214.914†	38.3	-43.5	-10.438 µg/L	-10.438 ppb	20:19:31
2	Pb 220.353†	142.1	21.4	1.2928 µg/L	1.2928 ppb	20:19:31

2	S 181.975 Axial†	84.7	-15.1	-12.191 µg/L	-12.191 ppb	20:19:31
2	Sb 206.836†	90.2	-1.7	-0.2231 µg/L	-0.2231 ppb	20:19:31
2	Se 196.026†	16.7	4.8	1.90 µg/L	1.90 ppb	20:19:31
2	SiO2†	1687.5	16.4	1.7745 µg/L	1.7745 ppb	20:19:31
2	Si 251.611†	744.1	24.4	0.3950 µg/L	0.3950 ppb	20:19:31
2	Sn 189.927†	-5.5	-7.2	-0.5152 µg/L	-0.5152 ppb	20:19:31
2	Ti 334.940†	590.2	-80.5	-0.0834 µg/L	-0.0834 ppb	20:19:11
2	Tl 190.801†	-116.1	11.0	1.4736 µg/L	1.4736 ppb	20:19:31
2	U 409.014†	-444.6	60.4	3.7028 µg/L	3.7028 ppb	20:19:11
2	V 292.402†	365.2	-87.9	-0.4766 µg/L	-0.4766 ppb	20:19:11
2	Zn 213.857†	508.8	14.8	0.0938 µg/L	0.0938 ppb	20:19:31
3	Sc RADIAL	155889.7	155889.7	107 %		20:18:07
3	Al 396.153Radial†	-21.6	11.7	2.4989 µg/L	2.4989 ppb	20:18:27
3	Ca 317.933Radial†	710.6	48.2	2.8268 µg/L	2.8268 ppb	20:18:27
3	Fe 238.204 Radial†	176.6	51.8	3.4464 µg/L	3.4464 ppb	20:18:27
3	K 766.490 Radial†	1522.8	-31.2	-12.835 µg/L	-12.835 ppb	20:18:07
3	Mg 279.077 IEC†	169.6	-28.1	-11.582 µg/L	-11.582 ppb	20:18:27
3	Na 589.592 Radial†	1514.3	-278.9	-42.658 µg/L	-42.658 ppb	20:18:07
3	Sr 421.552†	-115.2	170.3	0.3991 µg/L	0.3991 ppb	20:18:07
3	Sc 361.383	1775735.1	1775735.1	106.16 %		20:19:33
3	Y 371.029	1090212.1	1090212.1	106.61 %		20:19:33
3	Ag 328.068†	3310.5	151.5	0.6044 µg/L	0.6044 ppb	20:19:35
3	As 188.979†	-18.3	-3.0	-1.2478 µg/L	-1.2478 ppb	20:19:55
3	B 249.677†	3162.1	-376.9	-6.3290 µg/L	-6.3290 ppb	20:19:55
3	Ba 233.527†	-165.4	19.2	0.0872 µg/L	0.0872 ppb	20:19:55
3	Be 313.107†	-659.6	38.8	0.0140 µg/L	0.0140 ppb	20:19:35
3	Cd 226.502†	-97.0	3.1	0.0206 µg/L	0.0206 ppb	20:19:55
3	Co 228.616†	-161.6	24.4	0.3340 µg/L	0.3340 ppb	20:19:55
3	Cr 267.716†	177.4	6.9	0.0553 µg/L	0.0553 ppb	20:19:55
3	Cu 324.752†	2774.4	188.7	0.8244 µg/L	0.8244 ppb	20:19:35
3	Mn 257.610†	182.4	91.8	0.1259 µg/L	0.1259 ppb	20:19:55
3	Mo 202.031†	-25.4	31.3	0.9879 µg/L	0.9879 ppb	20:19:55
3	Ni 231.604†	-68.5	-23.6	-0.3019 µg/L	-0.3019 ppb	20:19:55
3	P 214.914†	51.6	-31.0	-7.4391 µg/L	-7.4391 ppb	20:19:55
3	Pb 220.353†	84.6	-32.7	-1.9844 µg/L	-1.9844 ppb	20:19:55
3	S 181.975 Axial†	85.3	-14.4	-11.697 µg/L	-11.697 ppb	20:19:55
3	Sb 206.836†	54.5	-35.3	-4.7507 µg/L	-4.7507 ppb	20:19:55
3	Se 196.026†	0.8	-10.1	-4.01 µg/L	-4.01 ppb	20:19:55
3	SiO2†	1675.1	5.1	0.5352 µg/L	0.5352 ppb	20:19:55
3	Si 251.611†	757.0	36.7	0.5978 µg/L	0.5978 ppb	20:19:55
3	Sn 189.927†	-6.1	-7.8	-0.5522 µg/L	-0.5522 ppb	20:19:55
3	Ti 334.940†	761.4	80.9	0.0816 µg/L	0.0816 ppb	20:19:35
3	Tl 190.801†	-108.3	18.3	2.4419 µg/L	2.4419 ppb	20:19:55
3	U 409.014†	-429.2	74.8	4.5456 µg/L	4.5456 ppb	20:19:35
3	V 292.402†	201.6	-241.9	-1.3288 µg/L	-1.3288 ppb	20:19:35
3	Zn 213.857†	514.6	20.3	0.1291 µg/L	0.1291 ppb	20:19:55

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1783029.4	106.59 %	0.732			0.69%
Sc RADIAL	156579.5	107 %	0.9			0.88%
Y 371.029	1093776.2	106.96 %	0.658			0.61%
Ag 328.068†	69.5	0.2819 µg/L	0.29754	0.2819 ppb	0.29754	105.55%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-3.9	-0.8818 µg/L	4.40531	-0.8818 ppb	4.40531	499.59%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.2	-1.3360 µg/L	0.09228	-1.3360 ppb	0.09228	6.91%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-387.7	-6.5095 µg/L	0.32684	-6.5095 ppb	0.32684	5.02%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	21.7	0.0991 µg/L	0.01628	0.0991 ppb	0.01628	16.43%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	10.4	0.0053 µg/L	0.02537	0.0053 ppb	0.02537	474.55%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	53.3	3.1261 µg/L	0.36770	3.1261 ppb	0.36770	11.76%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	13.9	0.0958 µg/L	0.08241	0.0958 ppb	0.08241	85.99%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	11.6	0.1584 µg/L	0.15343	0.1584 ppb	0.15343	96.85%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	-6.8	-0.0638 µg/L	0.13543	-0.0638 ppb	0.13543 212.32%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	56.8	0.2526 µg/L	0.55423	0.2526 ppb	0.55423 219.45%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	49.6	3.3006 µg/L	0.65736	3.3006 ppb	0.65736 19.92%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	1.8	0.7609 µg/L	22.66551	0.7609 ppb	22.66551 >999.9%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	-18.6	-7.6537 µg/L	5.38218	-7.6537 ppb	5.38218 70.32%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	99.7	0.1365 µg/L	0.01367	0.1365 ppb	0.01367 10.02%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	24.5	0.7728 µg/L	0.27588	0.7728 ppb	0.27588 35.70%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	-250.9	-38.396 µg/L	4.5384	-38.396 ppb	4.5384 11.82%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	-10.1	-0.1291 µg/L	0.20080	-0.1291 ppb	0.20080 155.54%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	-40.8	-9.7910 µg/L	2.10426	-9.7910 ppb	2.10426 21.49%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	-8.2	-0.4998 µg/L	1.66019	-0.4998 ppb	1.66019 332.15%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	-12.3	-9.9332 µg/L	3.49134	-9.9332 ppb	3.49134 35.15%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	-17.2	-2.3053 µg/L	2.28550	-2.3053 ppb	2.28550 99.14%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	2.7	1.06 µg/L	4.705	1.06 ppb	4.705 444.44%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	11.3	1.2168 µg/L	0.62889	1.2168 ppb	0.62889 51.68%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	29.8	0.4840 µg/L	0.10365	0.4840 ppb	0.10365 21.42%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	-3.7	-0.2626 µg/L	0.46990	-0.2626 ppb	0.46990 178.94%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	153.4	0.3595 µg/L	0.07442	0.3595 ppb	0.07442 20.70%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	126.9	0.1275 µg/L	0.23711	0.1275 ppb	0.23711 186.03%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	15.7	2.1045 µg/L	0.54683	2.1045 ppb	0.54683 25.98%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	104.8	6.4375 µg/L	4.02889	6.4375 ppb	4.02889 62.58%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	-120.7	-0.6580 µg/L	0.60105	-0.6580 ppb	0.60105 91.35%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	11.2	0.0710 µg/L	0.07224	0.0710 ppb	0.07224 101.73%
	QC value within limits for Zn 213.857 Recovery = Not calculated				

All analyte(s) passed QC.

Sequence No.: 30
 Sample ID: 1202056866|959109|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 324
 Date Collected: 3/29/2010 20:20:04
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202056866|959109|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	157385.0	157385.0	108 %		20:20:36
1	Al 396.153Radial†	-8.0	24.5	5.2915 µg/L	5.2915 ppb	20:20:56
1	Ca 317.933Radial†	774.9	101.4	5.9420 µg/L	5.9420 ppb	20:20:56
1	Fe 238.204 Radial†	341.8	203.3	13.514 µg/L	13.514 ppb	20:20:56
1	K 766.490 Radial†	1553.3	-16.5	-6.7715 µg/L	-6.7715 ppb	20:20:36
1	Mg 279.077 IEC†	180.5	-19.5	-8.0285 µg/L	-8.0285 ppb	20:20:56
1	Na 589.592 Radial†	1691.6	-128.1	-19.598 µg/L	-19.598 ppb	20:20:36
1	Sr 421.552†	-265.1	32.4	0.0760 µg/L	0.0760 ppb	20:20:36
1	Sc 361.383	1783162.4	1783162.4	106.60 %		20:21:44
1	Y 371.029	1090137.4	1090137.4	106.61 %		20:21:44
1	Ag 328.068†	3204.3	38.9	0.1558 µg/L	0.1558 ppb	20:21:46
1	As 188.979†	-17.8	-2.5	-1.0360 µg/L	-1.0360 ppb	20:22:06
1	B 249.677†	3164.6	-387.0	-6.4973 µg/L	-6.4973 ppb	20:22:06
1	Ba 233.527†	-159.8	25.1	0.1140 µg/L	0.1140 ppb	20:22:06
1	Be 313.107†	-580.4	115.7	0.0421 µg/L	0.0421 ppb	20:21:46
1	Cd 226.502†	-94.8	5.4	0.0362 µg/L	0.0362 ppb	20:22:06
1	Co 228.616†	-176.8	10.8	0.1470 µg/L	0.1470 ppb	20:22:06
1	Cr 267.716†	187.9	16.0	0.1257 µg/L	0.1257 ppb	20:22:06
1	Cu 324.752†	2760.8	165.0	0.7312 µg/L	0.7312 ppb	20:21:46
1	Mn 257.610†	325.9	225.7	0.3088 µg/L	0.3088 ppb	20:22:06
1	Mo 202.031†	-21.1	35.5	1.1191 µg/L	1.1191 ppb	20:22:06
1	Ni 231.604†	-23.9	18.5	0.2370 µg/L	0.2370 ppb	20:22:06
1	P 214.914†	62.2	-21.2	-5.1165 µg/L	-5.1165 ppb	20:22:06
1	Pb 220.353†	101.0	-17.7	-1.0785 µg/L	-1.0785 ppb	20:22:06
1	S 181.975 Axial†	90.7	-9.7	-7.8623 µg/L	-7.8623 ppb	20:22:06
1	Sb 206.836†	91.1	-1.2	-0.1533 µg/L	-0.1533 ppb	20:22:06
1	Se 196.026†	12.9	1.2	0.488 µg/L	0.488 ppb	20:22:06
1	SiO2†	2242.9	531.2	58.039 µg/L	58.039 ppb	20:22:06
1	Si 251.611†	2337.2	1516.1	25.060 µg/L	25.060 ppb	20:21:46
1	Sn 189.927†	-11.2	-12.5	-0.8874 µg/L	-0.8874 ppb	20:22:06
1	Ti 334.940†	903.9	211.6	0.2105 µg/L	0.2105 ppb	20:21:46
1	Tl 190.801†	-117.8	9.8	1.3040 µg/L	1.3040 ppb	20:22:06
1	U 409.014†	-258.2	236.9	14.541 µg/L	14.541 ppb	20:21:46
1	V 292.402†	139.7	-300.8	-1.6489 µg/L	-1.6489 ppb	20:21:46
1	Zn 213.857†	738.3	228.2	1.4332 µg/L	1.4332 ppb	20:22:06
2	Sc RADIAL	155647.0	155647.0	107 %		20:20:58
2	Al 396.153Radial†	15.0	46.0	9.9857 µg/L	9.9857 ppb	20:21:18
2	Ca 317.933Radial†	761.3	96.7	5.6672 µg/L	5.6672 ppb	20:21:18
2	Fe 238.204 Radial†	356.1	220.2	14.640 µg/L	14.640 ppb	20:21:18
2	K 766.490 Radial†	1463.9	-84.1	-34.625 µg/L	-34.625 ppb	20:20:58
2	Mg 279.077 IEC†	178.0	-20.0	-8.2469 µg/L	-8.2469 ppb	20:21:18
2	Na 589.592 Radial†	1599.1	-197.2	-30.149 µg/L	-30.149 ppb	20:20:58
2	Sr 421.552†	-225.1	67.2	0.1574 µg/L	0.1574 ppb	20:20:58
2	Sc 361.383	1790615.6	1790615.6	107.04 %		20:22:08
2	Y 371.029	1094058.1	1094058.1	106.99 %		20:22:08
2	Ag 328.068†	2882.1	-274.6	-1.1165 µg/L	-1.1165 ppb	20:22:10
2	As 188.979†	-23.8	-8.0	-3.3419 µg/L	-3.3419 ppb	20:22:30
2	B 249.677†	3170.7	-393.7	-6.6092 µg/L	-6.6092 ppb	20:22:30
2	Ba 233.527†	-149.1	35.8	0.1633 µg/L	0.1633 ppb	20:22:30
2	Be 313.107†	-636.6	65.4	0.0225 µg/L	0.0225 ppb	20:22:10
2	Cd 226.502†	-106.9	-5.5	-0.0394 µg/L	-0.0394 ppb	20:22:30
2	Co 228.616†	-184.6	4.2	0.0566 µg/L	0.0566 ppb	20:22:30
2	Cr 267.716†	182.7	10.4	0.0865 µg/L	0.0865 ppb	20:22:30
2	Cu 324.752†	2788.4	180.0	0.7880 µg/L	0.7880 ppb	20:22:10
2	Mn 257.610†	293.6	194.3	0.2658 µg/L	0.2658 ppb	20:22:30
2	Mo 202.031†	-25.0	31.9	1.0065 µg/L	1.0065 ppb	20:22:30
2	Ni 231.604†	-50.4	-6.1	-0.0785 µg/L	-0.0785 ppb	20:22:30
2	P 214.914†	62.7	-21.0	-5.0455 µg/L	-5.0455 ppb	20:22:30
2	Pb 220.353†	93.3	-25.3	-1.5330 µg/L	-1.5330 ppb	20:22:30

2	S 181.975 Axial†	93.6	-7.4	-5.9985 µg/L	-5.9985 ppb	20:22:30
2	Sb 206.836†	96.5	3.5	0.4866 µg/L	0.4866 ppb	20:22:30
2	Se 196.026†	16.7	4.7	1.86 µg/L	1.86 ppb	20:22:30
2	SiO2†	2211.2	492.8	53.838 µg/L	53.838 ppb	20:22:30
2	Si 251.611†	2434.1	1597.5	26.401 µg/L	26.401 ppb	20:22:10
2	Sn 189.927†	3.9	1.6	0.1155 µg/L	0.1155 ppb	20:22:30
2	Ti 334.940†	941.0	242.7	0.2466 µg/L	0.2466 ppb	20:22:10
2	Tl 190.801†	-124.8	3.7	0.5008 µg/L	0.5008 ppb	20:22:30
2	U 409.014†	-441.6	66.6	4.0770 µg/L	4.0770 ppb	20:22:10
2	V 292.402†	348.4	-106.4	-0.5792 µg/L	-0.5792 ppb	20:22:10
2	Zn 213.857†	716.2	204.7	1.2870 µg/L	1.2870 ppb	20:22:30
3	Sc RADIAL	158974.7	158974.7	109 %		20:21:20
3	Al 396.153Radial†	-1.4	30.6	6.6425 µg/L	6.6425 ppb	20:21:40
3	Ca 317.933Radial†	783.6	102.3	5.9935 µg/L	5.9935 ppb	20:21:40
3	Fe 238.204 Radial†	319.3	179.5	11.934 µg/L	11.934 ppb	20:21:40
3	K 766.490 Radial†	1529.9	-52.3	-21.545 µg/L	-21.545 ppb	20:21:20
3	Mg 279.077 IEC†	194.1	-8.7	-3.5890 µg/L	-3.5890 ppb	20:21:40
3	Na 589.592 Radial†	1527.9	-293.9	-44.946 µg/L	-44.946 ppb	20:21:20
3	Sr 421.552†	-364.3	-56.0	-0.1313 µg/L	-0.1313 ppb	20:21:20
3	Sc 361.383	1783384.3	1783384.3	106.61 %		20:22:32
3	Y 371.029	1089400.3	1089400.3	106.53 %		20:22:32
3	Ag 328.068†	2929.4	-219.3	-0.8740 µg/L	-0.8740 ppb	20:22:34
3	As 188.979†	-11.8	3.2	1.3424 µg/L	1.3424 ppb	20:22:54
3	B 249.677†	3151.3	-399.8	-6.7127 µg/L	-6.7127 ppb	20:22:54
3	Ba 233.527†	-160.6	24.4	0.1114 µg/L	0.1114 ppb	20:22:54
3	Be 313.107†	-824.8	-113.5	-0.0328 µg/L	-0.0328 ppb	20:22:34
3	Cd 226.502†	-103.4	-2.6	-0.0190 µg/L	-0.0190 ppb	20:22:54
3	Co 228.616†	-185.0	3.0	0.0410 µg/L	0.0410 ppb	20:22:54
3	Cr 267.716†	190.4	18.4	0.1475 µg/L	0.1475 ppb	20:22:54
3	Cu 324.752†	2704.4	111.8	0.4992 µg/L	0.4992 ppb	20:22:34
3	Mn 257.610†	320.3	220.4	0.3013 µg/L	0.3013 ppb	20:22:54
3	Mo 202.031†	-34.7	22.7	0.7168 µg/L	0.7168 ppb	20:22:54
3	Ni 231.604†	-50.3	-6.2	-0.0797 µg/L	-0.0797 ppb	20:22:54
3	P 214.914†	55.7	-27.4	-6.5692 µg/L	-6.5692 ppb	20:22:54
3	Pb 220.353†	103.1	-15.7	-0.9620 µg/L	-0.9620 ppb	20:22:54
3	S 181.975 Axial†	93.9	-6.8	-5.4632 µg/L	-5.4632 ppb	20:22:54
3	Sb 206.836†	87.3	-4.8	-0.6378 µg/L	-0.6378 ppb	20:22:54
3	Se 196.026†	13.1	1.3	0.550 µg/L	0.550 ppb	20:22:54
3	SiO2†	2218.2	507.7	55.472 µg/L	55.472 ppb	20:22:54
3	Si 251.611†	2753.3	1906.2	31.507 µg/L	31.507 ppb	20:22:34
3	Sn 189.927†	6.0	3.6	0.2550 µg/L	0.2550 ppb	20:22:54
3	Ti 334.940†	833.5	145.5	0.1431 µg/L	0.1431 ppb	20:22:34
3	Tl 190.801†	-117.7	9.9	1.3317 µg/L	1.3317 ppb	20:22:54
3	U 409.014†	-273.0	223.0	13.778 µg/L	13.778 ppb	20:22:34
3	V 292.402†	449.7	-10.1	-0.0405 µg/L	-0.0405 ppb	20:22:34
3	Zn 213.857†	743.8	233.2	1.4674 µg/L	1.4674 ppb	20:22:54

Mean Data: 1202056866|959109|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1785720.7	106.75 %	0.254			0.24%
Sc RADIAL	157335.6	108 %	1.1			1.06%
Y 371.029	1091198.6	106.71 %	0.245			0.23%
Ag 328.068†	-151.7	-0.6116 µg/L	0.67552	-0.6116 ppb	0.67552	110.45%
Al 396.153Radial†	33.7	7.3066 µg/L	2.41656	7.3066 ppb	2.41656	33.07%
As 188.979†	-2.4	-1.0119 µg/L	2.34223	-1.0119 ppb	2.34223	231.48%
B 249.677†	-393.5	-6.6064 µg/L	0.10770	-6.6064 ppb	0.10770	1.63%
Ba 233.527†	28.4	0.1296 µg/L	0.02922	0.1296 ppb	0.02922	22.56%
Be 313.107†	22.5	0.0106 µg/L	0.03883	0.0106 ppb	0.03883	365.91%
Ca 317.933Radial†	100.1	5.8676 µg/L	0.17544	5.8676 ppb	0.17544	2.99%
Cd 226.502†	-0.9	-0.0074 µg/L	0.03912	-0.0074 ppb	0.03912	528.80%
Co 228.616†	6.0	0.0815 µg/L	0.05723	0.0815 ppb	0.05723	70.20%
Cr 267.716†	14.9	0.1199 µg/L	0.03092	0.1199 ppb	0.03092	25.79%
Cu 324.752†	152.3	0.6728 µg/L	0.15301	0.6728 ppb	0.15301	22.74%
Fe 238.204 Radial†	201.0	13.363 µg/L	1.3592	13.363 ppb	1.3592	10.17%
K 766.490 Radial†	-51.0	-20.981 µg/L	13.9354	-20.981 ppb	13.9354	66.42%
Mg 279.077 IEC†	-16.1	-6.6214 µg/L	2.62847	-6.6214 ppb	2.62847	39.70%
Mn 257.610†	213.5	0.2920 µg/L	0.02294	0.2920 ppb	0.02294	7.86%
Mo 202.031†	30.0	0.9475 µg/L	0.20755	0.9475 ppb	0.20755	21.91%
Na 589.592 Radial†	-206.4	-31.564 µg/L	12.7330	-31.564 ppb	12.7330	40.34%

Ni 231.604†	2.1	0.0262 µg/L	0.18248	0.0262 ppb	0.18248	695.36%
P 214.914†	-23.2	-5.5771 µg/L	0.85992	-5.5771 ppb	0.85992	15.42%
Pb 220.353†	-19.6	-1.1912 µg/L	0.30168	-1.1912 ppb	0.30168	25.33%
S 181.975 Axial†	-8.0	-6.4413 µg/L	1.25937	-6.4413 ppb	1.25937	19.55%
Sb 206.836†	-0.8	-0.1015 µg/L	0.56399	-0.1015 ppb	0.56399	555.80%
Se 196.026†	2.4	0.966 µg/L	0.7740	0.966 ppb	0.7740	80.16%
SiO2†	510.6	55.783 µg/L	2.1179	55.783 ppb	2.1179	3.80%
Si 251.611†	1673.3	27.656 µg/L	3.4020	27.656 ppb	3.4020	12.30%
Sn 189.927†	-2.4	-0.1723 µg/L	0.62320	-0.1723 ppb	0.62320	361.74%
Sr 421.552†	14.5	0.0340 µg/L	0.14885	0.0340 ppb	0.14885	437.55%
Ti 334.940†	199.9	0.2001 µg/L	0.05253	0.2001 ppb	0.05253	26.26%
Tl 190.801†	7.8	1.0455 µg/L	0.47191	1.0455 ppb	0.47191	45.14%
U 409.014†	175.5	10.799 µg/L	5.8338	10.799 ppb	5.8338	54.02%
V 292.402†	-139.1	-0.7562 µg/L	0.81870	-0.7562 ppb	0.81870	108.27%
Zn 213.857†	222.0	1.3959 µg/L	0.09583	1.3959 ppb	0.09583	6.87%

Sequence No.: 31
 Sample ID: 1202056867|959109|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 325
 Date Collected: 3/29/2010 20:23:02
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202056867|959109|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	156746.7	156746.7	108 %		20:23:34
1	Al 396.153Radial†	25702.1	23931.5	5201.5 µg/L	5201.5 ppb	20:23:34
1	Ca 317.933Radial†	91602.9	84562.6	4955.0 µg/L	4955.0 ppb	20:23:34
1	Fe 238.204 Radial†	79597.0	73901.7	4913.2 µg/L	4913.2 ppb	20:23:34
1	K 766.490 Radial†	14133.9	11687.7	4808.3 µg/L	4808.3 ppb	20:23:34
1	Mg 279.077 IEC†	13534.4	12398.6	5119.7 µg/L	5119.7 ppb	20:23:34
1	Na 589.592 Radial†	36426.8	32177.5	4919.3 µg/L	4919.3 ppb	20:23:34
1	Sr 421.552†	234639.2	218462.1	511.98 µg/L	511.98 ppb	20:23:32
1	Sc 361.383	1745938.4	1745938.4	104.37 %		20:24:00
1	Y 371.029	1058622.0	1058622.0	103.52 %		20:24:00
1	Ag 328.068†	125737.6	117501.5	483.07 µg/L	483.07 ppb	20:24:00
1	As 188.979†	1319.3	1278.2	541.29 µg/L	541.29 ppb	20:24:20
1	B 249.677†	33274.0	28524.0	477.21 µg/L	477.21 ppb	20:24:00
1	Ba 233.527†	115985.8	111300.4	508.86 µg/L	508.86 ppb	20:24:00
1	Be 313.107†	1634178.2	1566357.7	510.02 µg/L	510.02 ppb	20:24:00
1	Cd 226.502†	72655.8	69705.5	481.06 µg/L	481.06 ppb	20:24:00
1	Co 228.616†	36589.5	35232.8	482.71 µg/L	482.71 ppb	20:24:00
1	Cr 267.716†	60048.3	57371.8	492.64 µg/L	492.64 ppb	20:24:00
1	Cu 324.752†	123069.2	115487.1	503.55 µg/L	503.55 ppb	20:24:00
1	Mn 257.610†	377960.3	362041.8	494.49 µg/L	494.49 ppb	20:24:00
1	Mo 202.031†	15960.8	15347.2	484.91 µg/L	484.91 ppb	20:24:20
1	Ni 231.604†	40582.2	38922.5	497.86 µg/L	497.86 ppb	20:24:00
1	P 214.914†	2194.5	2022.9	476.04 µg/L	476.04 ppb	20:24:20
1	Pb 220.353†	8527.2	8057.5	489.65 µg/L	489.65 ppb	20:24:20
1	S 181.975 Axial†	6385.9	6023.5	4884.2 µg/L	4884.2 ppb	20:24:20
1	Sb 206.836†	3920.5	3669.6	496.03 µg/L	496.03 ppb	20:24:20
1	Se 196.026†	1269.3	1205.2	479 µg/L	479 ppb	20:24:20
1	SiO2†	100911.8	95110.2	10375 µg/L	10375 ppb	20:24:00
1	Si 251.611†	305933.1	292436.5	4825.7 µg/L	4825.7 ppb	20:24:00
1	Sn 189.927†	7294.1	6986.4	498.33 µg/L	498.33 ppb	20:24:20
1	Ti 334.940†	504616.8	482834.4	491.70 µg/L	491.70 ppb	20:24:00
1	Tl 190.801†	3720.9	3685.2	502.13 µg/L	502.13 ppb	20:24:20
1	U 409.014†	7346.5	7517.8	494.93 µg/L	494.93 ppb	20:24:00
1	V 292.402†	94142.3	89765.5	504.14 µg/L	504.14 ppb	20:24:00
1	Zn 213.857†	80129.2	76307.0	476.42 µg/L	476.42 ppb	20:24:00
2	Sc RADIAL	156995.7	156995.7	108 %		20:23:38
2	Al 396.153Radial†	25711.0	23901.9	5195.0 µg/L	5195.0 ppb	20:23:38
2	Ca 317.933Radial†	91646.4	84468.0	4949.5 µg/L	4949.5 ppb	20:23:38
2	Fe 238.204 Radial†	79851.1	74020.2	4921.1 µg/L	4921.1 ppb	20:23:38
2	K 766.490 Radial†	14251.0	11775.6	4844.5 µg/L	4844.5 ppb	20:23:38
2	Mg 279.077 IEC†	13539.7	12383.6	5113.5 µg/L	5113.5 ppb	20:23:38
2	Na 589.592 Radial†	36521.1	32211.4	4924.4 µg/L	4924.4 ppb	20:23:38
2	Sr 421.552†	232493.8	216124.4	506.50 µg/L	506.50 ppb	20:23:36
2	Sc 361.383	1745031.8	1745031.8	104.32 %		20:24:23
2	Y 371.029	1058014.3	1058014.3	103.47 %		20:24:23
2	Ag 328.068†	125573.2	117406.5	482.71 µg/L	482.71 ppb	20:24:23
2	As 188.979†	1314.2	1274.0	539.52 µg/L	539.52 ppb	20:24:43
2	B 249.677†	33315.4	28580.3	478.16 µg/L	478.16 ppb	20:24:23
2	Ba 233.527†	115639.2	111026.0	507.61 µg/L	507.61 ppb	20:24:23
2	Be 313.107†	1628518.8	1561746.1	508.52 µg/L	508.52 ppb	20:24:23
2	Cd 226.502†	72273.4	69375.2	478.78 µg/L	478.78 ppb	20:24:23
2	Co 228.616†	36323.3	34995.9	479.47 µg/L	479.47 ppb	20:24:23
2	Cr 267.716†	59881.6	57241.8	491.51 µg/L	491.51 ppb	20:24:23
2	Cu 324.752†	122554.8	115055.3	501.70 µg/L	501.70 ppb	20:24:23
2	Mn 257.610†	376730.4	361051.0	493.14 µg/L	493.14 ppb	20:24:23
2	Mo 202.031†	15922.5	15318.4	484.00 µg/L	484.00 ppb	20:24:43
2	Ni 231.604†	40247.2	38621.5	494.01 µg/L	494.01 ppb	20:24:23
2	P 214.914†	2196.8	2026.3	476.84 µg/L	476.84 ppb	20:24:43
2	Pb 220.353†	8465.1	8002.2	486.27 µg/L	486.27 ppb	20:24:43

2	S 181.975 Axial†	6356.7	5998.6	4864.1 µg/L	4864.1 ppb	20:24:43
2	Sb 206.836†	3895.9	3647.9	493.11 µg/L	493.11 ppb	20:24:43
2	Se 196.026†	1254.0	1191.2	473 µg/L	473 ppb	20:24:43
2	SiO2†	100322.8	94595.9	10318 µg/L	10318 ppb	20:24:23
2	Si 251.611†	304957.5	291653.6	4812.7 µg/L	4812.7 ppb	20:24:23
2	Sn 189.927†	7261.2	6958.5	496.35 µg/L	496.35 ppb	20:24:43
2	Ti 334.940†	502978.4	481515.0	490.34 µg/L	490.34 ppb	20:24:23
2	Tl 190.801†	3664.0	3632.6	495.07 µg/L	495.07 ppb	20:24:43
2	U 409.014†	7772.1	7929.4	520.33 µg/L	520.33 ppb	20:24:23
2	V 292.402†	93997.2	89673.2	503.63 µg/L	503.63 ppb	20:24:23
2	Zn 213.857†	79919.0	76145.3	475.42 µg/L	475.42 ppb	20:24:23
3	Sc RADIAL	156164.6	156164.6	107 %		20:23:42
3	Al 396.153Radial†	25652.1	23973.9	5210.9 µg/L	5210.9 ppb	20:23:42
3	Ca 317.933Radial†	91471.8	84757.8	4966.4 µg/L	4966.4 ppb	20:23:42
3	Fe 238.204 Radial†	79270.8	73873.1	4911.3 µg/L	4911.3 ppb	20:23:42
3	K 766.490 Radial†	13996.5	11608.5	4775.7 µg/L	4775.7 ppb	20:23:42
3	Mg 279.077 IEC†	13392.7	12313.2	5084.4 µg/L	5084.4 ppb	20:23:42
3	Na 589.592 Radial†	36448.6	32324.1	4941.8 µg/L	4941.8 ppb	20:23:42
3	Sr 421.552†	233466.4	218180.9	511.32 µg/L	511.32 ppb	20:23:40
3	Sc 361.383	1768031.6	1768031.6	105.69 %		20:24:46
3	Y 371.029	1071355.4	1071355.4	104.77 %		20:24:46
3	Ag 328.068†	126891.9	117088.2	481.41 µg/L	481.41 ppb	20:24:46
3	As 188.979†	1324.5	1267.4	536.73 µg/L	536.73 ppb	20:25:06
3	B 249.677†	33845.0	28665.8	479.59 µg/L	479.59 ppb	20:24:46
3	Ba 233.527†	117533.1	111375.8	509.20 µg/L	509.20 ppb	20:24:46
3	Be 313.107†	1650050.4	1561809.9	508.54 µg/L	508.54 ppb	20:24:46
3	Cd 226.502†	73684.3	69808.8	481.77 µg/L	481.77 ppb	20:24:46
3	Co 228.616†	36917.5	35105.1	480.97 µg/L	480.97 ppb	20:24:46
3	Cr 267.716†	60599.7	57174.5	490.94 µg/L	490.94 ppb	20:24:46
3	Cu 324.752†	124098.7	114987.7	501.39 µg/L	501.39 ppb	20:24:46
3	Mn 257.610†	382440.2	361755.2	494.10 µg/L	494.10 ppb	20:24:46
3	Mo 202.031†	16010.5	15203.1	480.36 µg/L	480.36 ppb	20:25:06
3	Ni 231.604†	40962.8	38796.7	496.25 µg/L	496.25 ppb	20:24:46
3	P 214.914†	2197.9	1999.9	470.55 µg/L	470.55 ppb	20:25:06
3	Pb 220.353†	8533.5	7961.3	483.80 µg/L	483.80 ppb	20:25:06
3	S 181.975 Axial†	6377.7	5939.3	4816.0 µg/L	4816.0 ppb	20:25:06
3	Sb 206.836†	3923.2	3625.2	489.99 µg/L	489.99 ppb	20:25:06
3	Se 196.026†	1265.0	1185.9	471 µg/L	471 ppb	20:25:06
3	SiO2†	101815.4	94757.0	10336 µg/L	10336 ppb	20:24:46
3	Si 251.611†	309448.3	292099.7	4820.2 µg/L	4820.2 ppb	20:24:46
3	Sn 189.927†	7309.3	6913.5	493.15 µg/L	493.15 ppb	20:25:06
3	Ti 334.940†	510228.3	482102.2	490.95 µg/L	490.95 ppb	20:24:46
3	Tl 190.801†	3713.6	3633.9	495.23 µg/L	495.23 ppb	20:25:06
3	U 409.014†	7645.0	7712.2	506.95 µg/L	506.95 ppb	20:24:46
3	V 292.402†	95349.8	89780.8	504.18 µg/L	504.18 ppb	20:24:46
3	Zn 213.857†	81367.2	76519.0	477.76 µg/L	477.76 ppb	20:24:46

Mean Data: 1202056867|959109|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1753000.6	104.80 %	0.779			0.74%
Sc RADIAL	156635.7	107 %	0.3			0.27%
Y 371.029	1062663.9	103.92 %	0.737			0.71%
Ag 328.068†	117332.1	482.40 µg/L	0.874	482.40 ppb	0.874	0.18%
Al 396.153Radial†	23935.8	5202.5 µg/L	8.00	5202.5 ppb	8.00	0.15%
As 188.979†	1273.2	539.18 µg/L	2.300	539.18 ppb	2.300	0.43%
B 249.677†	28590.0	478.32 µg/L	1.202	478.32 ppb	1.202	0.25%
Ba 233.527†	111234.1	508.56 µg/L	0.841	508.56 ppb	0.841	0.17%
Be 313.107†	1563304.6	509.03 µg/L	0.857	509.03 ppb	0.857	0.17%
Ca 317.933Radial†	84596.2	4957.0 µg/L	8.66	4957.0 ppb	8.66	0.17%
Cd 226.502†	69629.8	480.54 µg/L	1.565	480.54 ppb	1.565	0.33%
Co 228.616†	35111.2	481.05 µg/L	1.625	481.05 ppb	1.625	0.34%
Cr 267.716†	57262.7	491.70 µg/L	0.867	491.70 ppb	0.867	0.18%
Cu 324.752†	115176.7	502.21 µg/L	1.171	502.21 ppb	1.171	0.23%
Fe 238.204 Radial†	73931.7	4915.2 µg/L	5.18	4915.2 ppb	5.18	0.11%
K 766.490 Radial†	11690.6	4809.5 µg/L	34.41	4809.5 ppb	34.41	0.72%
Mg 279.077 IEC†	12365.1	5105.9 µg/L	18.85	5105.9 ppb	18.85	0.37%
Mn 257.610†	361616.0	493.91 µg/L	0.697	493.91 ppb	0.697	0.14%
Mo 202.031†	15289.6	483.09 µg/L	2.408	483.09 ppb	2.408	0.50%
Na 589.592 Radial†	32237.7	4928.5 µg/L	11.77	4928.5 ppb	11.77	0.24%

Ni 231.604†	38780.3	496.04 µg/L	1.934	496.04 ppb	1.934	0.39%
P 214.914†	2016.4	474.48 µg/L	3.422	474.48 ppb	3.422	0.72%
Pb 220.353†	8007.0	486.57 µg/L	2.935	486.57 ppb	2.935	0.60%
S 181.975 Axial†	5987.1	4854.7 µg/L	35.06	4854.7 ppb	35.06	0.72%
Sb 206.836†	3647.6	493.05 µg/L	3.022	493.05 ppb	3.022	0.61%
Se 196.026†	1194.1	475 µg/L	3.9	475 ppb	3.9	0.83%
SiO2†	94821.0	10343 µg/L	28.7	10343 ppb	28.7	0.28%
Si 251.611†	292063.3	4819.5 µg/L	6.49	4819.5 ppb	6.49	0.13%
Sn 189.927†	6952.8	495.94 µg/L	2.618	495.94 ppb	2.618	0.53%
Sr 421.552†	217589.1	509.93 µg/L	2.991	509.93 ppb	2.991	0.59%
Ti 334.940†	482150.5	490.99 µg/L	0.679	490.99 ppb	0.679	0.14%
Tl 190.801†	3650.6	497.48 µg/L	4.031	497.48 ppb	4.031	0.81%
U 409.014†	7719.8	507.40 µg/L	12.704	507.40 ppb	12.704	2.50%
V 292.402†	89739.8	503.98 µg/L	0.306	503.98 ppb	0.306	0.06%
Zn 213.857†	76323.8	476.53 µg/L	1.174	476.53 ppb	1.174	0.25%

Sequence No.: 32

Sample ID: 248199001|959109|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 326

Date Collected: 3/29/2010 20:25:15

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248199001|959109|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	157815.8	157815.8	108 %		20:25:45
1	Al 396.153Radial†	8.7	39.9	8.6850 µg/L	8.6850 ppb	20:26:05
1	Ca 317.933Radial†	1455.9	728.5	42.684 µg/L	42.684 ppb	20:26:05
1	Fe 238.204 Radial†	502.5	350.8	23.323 µg/L	23.323 ppb	20:26:05
1	K 766.490 Radial†	1697.9	113.1	46.532 µg/L	46.532 ppb	20:25:45
1	Mg 279.077 IEC†	185.7	-15.2	-6.2762 µg/L	-6.2762 ppb	20:26:05
1	Na 589.592 Radial†	2715.8	813.5	124.44 µg/L	124.44 ppb	20:25:45
1	Sr 421.552†	-129.4	158.5	0.3710 µg/L	0.3710 ppb	20:25:45
1	Sc 361.383	1775359.2	1775359.2	106.13 %		20:26:53
1	Y 371.029	1084490.1	1084490.1	106.05 %		20:26:53
1	Ag 328.068†	2909.8	-225.4	-0.9047 µg/L	-0.9047 ppb	20:26:55
1	As 188.979†	-18.6	-3.3	-1.3570 µg/L	-1.3570 ppb	20:27:15
1	B 249.677†	4853.6	1217.5	20.439 µg/L	20.439 ppb	20:26:55
1	Ba 233.527†	-132.1	50.6	0.2307 µg/L	0.2307 ppb	20:27:15
1	Be 313.107†	-546.4	145.2	0.0510 µg/L	0.0510 ppb	20:26:55
1	Cd 226.502†	-79.2	19.8	0.1341 µg/L	0.1341 ppb	20:27:15
1	Co 228.616†	-159.4	26.4	0.3604 µg/L	0.3604 ppb	20:27:15
1	Cr 267.716†	209.1	36.7	0.3065 µg/L	0.3065 ppb	20:27:15
1	Cu 324.752†	2701.8	120.8	0.5387 µg/L	0.5387 ppb	20:26:55
1	Mn 257.610†	497.9	389.2	0.5320 µg/L	0.5320 ppb	20:27:15
1	Mo 202.031†	-42.2	15.4	0.4879 µg/L	0.4879 ppb	20:27:15
1	Ni 231.604†	-34.9	8.0	0.1027 µg/L	0.1027 ppb	20:27:15
1	P 214.914†	56.6	-26.2	-6.2961 µg/L	-6.2961 ppb	20:27:15
1	Pb 220.353†	125.7	6.0	0.3535 µg/L	0.3535 ppb	20:27:15
1	S 181.975 Axial†	121.6	19.8	16.009 µg/L	16.009 ppb	20:27:15
1	Sb 206.836†	82.0	-9.4	-1.2665 µg/L	-1.2665 ppb	20:27:15
1	Se 196.026†	10.5	-1.0	-0.381 µg/L	-0.381 ppb	20:27:15
1	SiO2†	37399.0	33665.1	3679.6 µg/L	3679.6 ppb	20:26:55
1	Si 251.611†	110528.4	103465.4	1710.8 µg/L	1710.8 ppb	20:26:55
1	Sn 189.927†	7.0	4.6	0.3296 µg/L	0.3296 ppb	20:27:15
1	Ti 334.940†	956.0	264.5	0.2661 µg/L	0.2661 ppb	20:26:55
1	Tl 190.801†	-118.7	8.5	1.1344 µg/L	1.1344 ppb	20:27:15
1	U 409.014†	-296.1	200.1	12.343 µg/L	12.343 ppb	20:26:55
1	V 292.402†	395.8	-58.9	-0.3160 µg/L	-0.3160 ppb	20:26:55
1	Zn 213.857†	813.8	302.4	1.9000 µg/L	1.9000 ppb	20:27:15
2	Sc RADIAL	156497.0	156497.0	107 %		20:26:07
2	Al 396.153Radial†	-2.9	29.2	6.3266 µg/L	6.3266 ppb	20:26:27
2	Ca 317.933Radial†	1451.7	735.9	43.120 µg/L	43.120 ppb	20:26:27
2	Fe 238.204 Radial†	503.2	355.4	23.628 µg/L	23.628 ppb	20:26:27
2	K 766.490 Radial†	1653.0	84.5	34.762 µg/L	34.762 ppb	20:26:07
2	Mg 279.077 IEC†	187.8	-11.7	-4.8329 µg/L	-4.8329 ppb	20:26:27
2	Na 589.592 Radial†	2677.5	799.0	122.22 µg/L	122.22 ppb	20:26:07
2	Sr 421.552†	-120.4	165.8	0.3884 µg/L	0.3884 ppb	20:26:07
2	Sc 361.383	1764387.6	1764387.6	105.48 %		20:27:17
2	Y 371.029	1077927.2	1077927.2	105.41 %		20:27:17
2	Ag 328.068†	3036.6	-88.1	-0.3688 µg/L	-0.3688 ppb	20:27:19
2	As 188.979†	-16.0	-0.9	-0.3799 µg/L	-0.3799 ppb	20:27:39
2	B 249.677†	4778.7	1174.8	19.724 µg/L	19.724 ppb	20:27:19
2	Ba 233.527†	-110.4	70.4	0.3211 µg/L	0.3211 ppb	20:27:39
2	Be 313.107†	-526.2	161.2	0.0527 µg/L	0.0527 ppb	20:27:19
2	Cd 226.502†	-79.7	18.8	0.1274 µg/L	0.1274 ppb	20:27:39
2	Co 228.616†	-185.2	1.1	0.0135 µg/L	0.0135 ppb	20:27:39
2	Cr 267.716†	146.6	-21.2	-0.1826 µg/L	-0.1826 ppb	20:27:39
2	Cu 324.752†	2741.3	174.1	0.7607 µg/L	0.7607 ppb	20:27:19
2	Mn 257.610†	454.6	351.0	0.4797 µg/L	0.4797 ppb	20:27:39
2	Mo 202.031†	-27.3	29.3	0.9261 µg/L	0.9261 ppb	20:27:39
2	Ni 231.604†	-41.1	1.9	0.0245 µg/L	0.0245 ppb	20:27:39
2	P 214.914†	51.5	-30.7	-7.4017 µg/L	-7.4017 ppb	20:27:39
2	Pb 220.353†	110.4	-7.8	-0.4678 µg/L	-0.4678 ppb	20:27:39

2	S 181.975 Axial†	128.8	27.3	22.137	µg/L	22.137	ppb	20:27:39
2	Sb 206.836†	109.9	17.6	2.3808	µg/L	2.3808	ppb	20:27:39
2	Se 196.026†	13.6	2.0	0.783	µg/L	0.783	ppb	20:27:39
2	SiO2†	37463.4	33945.3	3710.2	µg/L	3710.2	ppb	20:27:19
2	Si 251.611†	110383.6	103975.7	1719.2	µg/L	1719.2	ppb	20:27:19
2	Sn 189.927†	-16.3	-17.4	-1.2372	µg/L	-1.2372	ppb	20:27:39
2	Ti 334.940†	1173.5	476.2	0.4868	µg/L	0.4868	ppb	20:27:19
2	Tl 190.801†	-131.1	-4.0	-0.5360	µg/L	-0.5360	ppb	20:27:39
2	U 409.014†	-492.2	12.5	0.7188	µg/L	0.7188	ppb	20:27:19
2	V 292.402†	284.2	-162.4	-0.8955	µg/L	-0.8955	ppb	20:27:19
2	Zn 213.857†	836.3	328.4	2.0643	µg/L	2.0643	ppb	20:27:39
3	Sc RADIAL	157519.1	157519.1	108	%			20:26:29
3	Al 396.153Radial†	10.8	41.9	9.1064	µg/L	9.1064	ppb	20:26:49
3	Ca 317.933Radial†	1461.0	735.7	43.107	µg/L	43.107	ppb	20:26:49
3	Fe 238.204 Radial†	527.1	374.5	24.896	µg/L	24.896	ppb	20:26:49
3	K 766.490 Radial†	1730.5	146.2	60.181	µg/L	60.181	ppb	20:26:29
3	Mg 279.077 IEC†	199.9	-1.7	-0.6930	µg/L	-0.6930	ppb	20:26:49
3	Na 589.592 Radial†	2536.1	651.9	99.700	µg/L	99.700	ppb	20:26:29
3	Sr 421.552†	-194.0	98.5	0.2305	µg/L	0.2305	ppb	20:26:29
3	Sc 361.383	1785005.6	1785005.6	106.71	%			20:27:41
3	Y 371.029	1089111.2	1089111.2	106.51	%			20:27:41
3	Ag 328.068†	3112.4	-50.3	-0.2038	µg/L	-0.2038	ppb	20:27:43
3	As 188.979†	-11.2	3.7	1.5635	µg/L	1.5635	ppb	20:28:03
3	B 249.677†	4765.0	1109.7	18.630	µg/L	18.630	ppb	20:27:43
3	Ba 233.527†	-110.0	72.0	0.3284	µg/L	0.3284	ppb	20:28:03
3	Be 313.107†	-723.8	-18.2	-0.0039	µg/L	-0.0039	ppb	20:27:43
3	Cd 226.502†	-116.3	-14.6	-0.1030	µg/L	-0.1030	ppb	20:28:03
3	Co 228.616†	-162.3	24.5	0.3344	µg/L	0.3344	ppb	20:28:03
3	Cr 267.716†	197.6	24.9	0.2094	µg/L	0.2094	ppb	20:28:03
3	Cu 324.752†	2814.2	212.4	0.9326	µg/L	0.9326	ppb	20:27:43
3	Mn 257.610†	462.2	353.2	0.4825	µg/L	0.4825	ppb	20:28:03
3	Mo 202.031†	-31.6	25.6	0.8095	µg/L	0.8095	ppb	20:28:03
3	Ni 231.604†	-23.4	18.9	0.2423	µg/L	0.2423	ppb	20:28:03
3	P 214.914†	55.4	-27.7	-6.6503	µg/L	-6.6503	ppb	20:28:03
3	Pb 220.353†	91.1	-27.1	-1.6415	µg/L	-1.6415	ppb	20:28:03
3	S 181.975 Axial†	119.1	16.8	13.641	µg/L	13.641	ppb	20:28:03
3	Sb 206.836†	79.7	-11.9	-1.6008	µg/L	-1.6008	ppb	20:28:03
3	Se 196.026†	6.5	-4.8	-1.89	µg/L	-1.89	ppb	20:28:03
3	SiO2†	37651.8	33711.6	3684.7	µg/L	3684.7	ppb	20:27:43
3	Si 251.611†	110851.7	103205.6	1706.5	µg/L	1706.5	ppb	20:27:43
3	Sn 189.927†	11.3	8.6	0.6115	µg/L	0.6115	ppb	20:28:03
3	Ti 334.940†	1058.4	355.5	0.3608	µg/L	0.3608	ppb	20:27:43
3	Tl 190.801†	-134.4	-5.6	-0.7566	µg/L	-0.7566	ppb	20:28:03
3	U 409.014†	-394.5	109.4	6.7286	µg/L	6.7286	ppb	20:27:43
3	V 292.402†	354.2	-99.9	-0.5446	µg/L	-0.5446	ppb	20:27:43
3	Zn 213.857†	811.6	296.1	1.8591	µg/L	1.8591	ppb	20:28:03

Mean Data: 248199001|959109|1

Analyte	Mean Corrected	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1774917.5	106.11	%	0.617				0.58%
Sc RADIAL	157277.3	108	%	0.5				0.44%
Y 371.029	1083842.9	105.99	%	0.550				0.52%
Ag 328.068†	-121.3	-0.4924	µg/L	0.36643	-0.4924	ppb	0.36643	74.41%
Al 396.153Radial†	37.0	8.0393	µg/L	1.49816	8.0393	ppb	1.49816	18.64%
As 188.979†	-0.2	-0.0578	µg/L	1.48661	-0.0578	ppb	1.48661	>999.9%
B 249.677†	1167.4	19.598	µg/L	0.9111	19.598	ppb	0.9111	4.65%
Ba 233.527†	64.3	0.2934	µg/L	0.05444	0.2934	ppb	0.05444	18.56%
Be 313.107†	96.1	0.0333	µg/L	0.03219	0.0333	ppb	0.03219	96.73%
Ca 317.933Radial†	733.3	42.970	µg/L	0.2480	42.970	ppb	0.2480	0.58%
Cd 226.502†	8.0	0.0528	µg/L	0.13497	0.0528	ppb	0.13497	255.55%
Co 228.616†	17.3	0.2361	µg/L	0.19323	0.2361	ppb	0.19323	81.83%
Cr 267.716†	13.5	0.1111	µg/L	0.25897	0.1111	ppb	0.25897	233.11%
Cu 324.752†	169.1	0.7440	µg/L	0.19751	0.7440	ppb	0.19751	26.55%
Fe 238.204 Radial†	360.2	23.949	µg/L	0.8344	23.949	ppb	0.8344	3.48%
K 766.490 Radial†	114.6	47.158	µg/L	12.7211	47.158	ppb	12.7211	26.98%
Mg 279.077 IEC†	-9.5	-3.9340	µg/L	2.89810	-3.9340	ppb	2.89810	73.67%
Mn 257.610†	364.4	0.4981	µg/L	0.02937	0.4981	ppb	0.02937	5.90%
Mo 202.031†	23.5	0.7411	µg/L	0.22698	0.7411	ppb	0.22698	30.63%
Na 589.592 Radial†	754.8	115.45	µg/L	13.688	115.45	ppb	13.688	11.86%

Ni 231.604†	9.6	0.1232 µg/L	0.11034	0.1232 ppb	0.11034	89.57%
P 214.914†	-28.2	-6.7827 µg/L	0.56455	-6.7827 ppb	0.56455	8.32%
Pb 220.353†	-9.6	-0.5852 µg/L	1.00269	-0.5852 ppb	1.00269	171.33%
S 181.975 Axial†	21.3	17.262 µg/L	4.3841	17.262 ppb	4.3841	25.40%
Sb 206.836†	-1.3	-0.1622 µg/L	2.20861	-0.1622 ppb	2.20861	>999.9%
Se 196.026†	-1.3	-0.496 µg/L	1.3411	-0.496 ppb	1.3411	270.18%
SiO2†	33774.0	3691.5 µg/L	16.42	3691.5 ppb	16.42	0.44%
Si 251.611†	103548.9	1712.2 µg/L	6.48	1712.2 ppb	6.48	0.38%
Sn 189.927†	-1.4	-0.0987 µg/L	0.99598	-0.0987 ppb	0.99598	>999.9%
Sr 421.552†	140.9	0.3300 µg/L	0.08659	0.3300 ppb	0.08659	26.24%
Ti 334.940†	365.4	0.3713 µg/L	0.11073	0.3713 ppb	0.11073	29.82%
Tl 190.801†	-0.4	-0.0527 µg/L	1.03396	-0.0527 ppb	1.03396	>999.9%
U 409.014†	107.3	6.5969 µg/L	5.81342	6.5969 ppb	5.81342	88.12%
V 292.402†	-107.1	-0.5854 µg/L	0.29191	-0.5854 ppb	0.29191	49.87%
Zn 213.857†	309.0	1.9412 µg/L	0.10864	1.9412 ppb	0.10864	5.60%

Sequence No.: 33
 Sample ID: 1202056868|959109|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 327
 Date Collected: 3/29/2010 20:28:12
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202056868|959109|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	155950.8	155950.8	107 %		20:28:42
1	Al 396.153Radial†	22.6	53.0	11.525 µg/L	11.525 ppb	20:29:02
1	Ca 317.933Radial†	1181.2	487.8	28.583 µg/L	28.583 ppb	20:29:02
1	Fe 238.204 Radial†	335.6	200.4	13.323 µg/L	13.323 ppb	20:29:02
1	K 766.490 Radial†	1555.3	-1.4	-0.6101 µg/L	-0.6101 ppb	20:28:42
1	Mg 279.077 IEC†	178.1	-20.2	-8.3346 µg/L	-8.3346 ppb	20:29:02
1	Na 589.592 Radial†	2483.6	626.5	95.859 µg/L	95.859 ppb	20:28:42
1	Sr 421.552†	-192.1	98.4	0.2305 µg/L	0.2305 ppb	20:28:42
1	Sc 361.383	1760747.3	1760747.3	105.26 %		20:29:50
1	Y 371.029	1075796.3	1075796.3	105.20 %		20:29:50
1	Ag 328.068†	2884.0	-227.1	-0.9321 µg/L	-0.9321 ppb	20:29:52
1	As 188.979†	-10.8	4.0	1.6623 µg/L	1.6623 ppb	20:30:12
1	B 249.677†	4706.0	1115.2	18.723 µg/L	18.723 ppb	20:29:52
1	Ba 233.527†	-139.7	42.3	0.1929 µg/L	0.1929 ppb	20:30:12
1	Be 313.107†	-886.0	-181.6	-0.0594 µg/L	-0.0594 ppb	20:29:52
1	Cd 226.502†	-127.9	-27.1	-0.1886 µg/L	-0.1886 ppb	20:30:12
1	Co 228.616†	-191.5	-5.3	-0.0729 µg/L	-0.0729 ppb	20:30:12
1	Cr 267.716†	197.1	27.0	0.2327 µg/L	0.2327 ppb	20:30:12
1	Cu 324.752†	2755.3	192.8	0.8389 µg/L	0.8389 ppb	20:29:52
1	Mn 257.610†	429.0	327.6	0.4479 µg/L	0.4479 ppb	20:30:12
1	Mo 202.031†	-30.3	26.4	0.8330 µg/L	0.8330 ppb	20:30:12
1	Ni 231.604†	-62.3	-18.3	-0.2340 µg/L	-0.2340 ppb	20:30:12
1	P 214.914†	50.0	-32.1	-7.7135 µg/L	-7.7135 ppb	20:30:12
1	Pb 220.353†	119.6	1.2	0.0781 µg/L	0.0781 ppb	20:30:12
1	S 181.975 Axial†	125.4	24.3	19.694 µg/L	19.694 ppb	20:30:12
1	Sb 206.836†	83.8	-7.1	-0.9481 µg/L	-0.9481 ppb	20:30:12
1	Se 196.026†	1.0	-10.0	-3.96 µg/L	-3.96 ppb	20:30:12
1	SiO2†	36457.7	33063.3	3613.8 µg/L	3613.8 ppb	20:29:52
1	Si 251.611†	107867.9	101802.1	1683.3 µg/L	1683.3 ppb	20:29:52
1	Sn 189.927†	-5.9	-7.6	-0.5392 µg/L	-0.5392 ppb	20:30:12
1	Ti 334.940†	1128.2	435.5	0.4458 µg/L	0.4458 ppb	20:29:52
1	Tl 190.801†	-115.9	10.2	1.3758 µg/L	1.3758 ppb	20:30:12
1	U 409.014†	-521.9	-16.8	-1.0757 µg/L	-1.0757 ppb	20:29:52
1	V 292.402†	322.5	-125.5	-0.6895 µg/L	-0.6895 ppb	20:29:52
1	Zn 213.857†	711.3	211.4	1.3302 µg/L	1.3302 ppb	20:30:12
2	Sc RADIAL	157839.8	157839.8	108 %		20:29:04
2	Al 396.153Radial†	-1.9	30.1	6.5287 µg/L	6.5287 ppb	20:29:24
2	Ca 317.933Radial†	1125.6	423.3	24.801 µg/L	24.801 ppb	20:29:24
2	Fe 238.204 Radial†	332.6	193.9	12.890 µg/L	12.890 ppb	20:29:24
2	K 766.490 Radial†	1665.0	82.5	33.929 µg/L	33.929 ppb	20:29:04
2	Mg 279.077 IEC†	184.7	-16.1	-6.6459 µg/L	-6.6459 ppb	20:29:24
2	Na 589.592 Radial†	2619.9	724.6	110.84 µg/L	110.84 ppb	20:29:04
2	Sr 421.552†	-262.9	35.2	0.0823 µg/L	0.0823 ppb	20:29:04
2	Sc 361.383	1790165.6	1790165.6	107.02 %		20:30:14
2	Y 371.029	1093133.4	1093133.4	106.90 %		20:30:14
2	Ag 328.068†	3063.1	-104.8	-0.4306 µg/L	-0.4306 ppb	20:30:16
2	As 188.979†	-5.9	8.7	3.6605 µg/L	3.6605 ppb	20:30:36
2	B 249.677†	4663.8	1002.3	16.827 µg/L	16.827 ppb	20:30:16
2	Ba 233.527†	-155.2	30.0	0.1370 µg/L	0.1370 ppb	20:30:36
2	Be 313.107†	-476.7	214.6	0.0699 µg/L	0.0699 ppb	20:30:16
2	Cd 226.502†	-100.6	0.4	0.0012 µg/L	0.0012 ppb	20:30:36
2	Co 228.616†	-194.5	-5.1	-0.0705 µg/L	-0.0705 ppb	20:30:36
2	Cr 267.716†	200.1	26.8	0.2302 µg/L	0.2302 ppb	20:30:36
2	Cu 324.752†	2797.6	189.3	0.8243 µg/L	0.8243 ppb	20:30:16
2	Mn 257.610†	414.4	307.2	0.4201 µg/L	0.4201 ppb	20:30:36
2	Mo 202.031†	-32.6	24.8	0.7823 µg/L	0.7823 ppb	20:30:36
2	Ni 231.604†	-56.6	-12.0	-0.1531 µg/L	-0.1531 ppb	20:30:36
2	P 214.914†	72.1	-12.2	-2.9498 µg/L	-2.9498 ppb	20:30:36
2	Pb 220.353†	73.7	-43.5	-2.6348 µg/L	-2.6348 ppb	20:30:36

2	S 181.975 Axial†	120.2	17.5	14.209	µg/L	14.209	ppb	20:30:36
2	Sb 206.836†	86.2	-6.1	-0.8153	µg/L	-0.8153	ppb	20:30:36
2	Se 196.026†	-2.6	-13.4	-5.28	µg/L	-5.28	ppb	20:30:36
2	SiO2†	37358.0	33335.4	3643.6	µg/L	3643.6	ppb	20:30:16
2	Si 251.611†	110459.1	102539.3	1695.5	µg/L	1695.5	ppb	20:30:16
2	Sn 189.927†	-6.4	-8.0	-0.5675	µg/L	-0.5675	ppb	20:30:36
2	Ti 334.940†	1109.1	400.0	0.4090	µg/L	0.4090	ppb	20:30:16
2	Tl 190.801†	-125.2	3.3	0.4435	µg/L	0.4435	ppb	20:30:36
2	U 409.014†	-512.9	-0.2	-0.0331	µg/L	-0.0331	ppb	20:30:16
2	V 292.402†	390.0	-67.4	-0.3674	µg/L	-0.3674	ppb	20:30:16
2	Zn 213.857†	717.3	205.9	1.2953	µg/L	1.2953	ppb	20:30:36
3	Sc RADIAL	155985.4	155985.4	107	%			20:29:26
3	Al 396.153Radial†	10.1	41.3	8.9851	µg/L	8.9851	ppb	20:29:46
3	Ca 317.933Radial†	1140.2	449.2	26.324	µg/L	26.324	ppb	20:29:46
3	Fe 238.204 Radial†	310.8	177.1	11.776	µg/L	11.776	ppb	20:29:46
3	K 766.490 Radial†	1637.4	75.0	30.843	µg/L	30.843	ppb	20:29:26
3	Mg 279.077 IEC†	175.5	-22.7	-9.3351	µg/L	-9.3351	ppb	20:29:46
3	Na 589.592 Radial†	2562.9	700.1	107.09	µg/L	107.09	ppb	20:29:26
3	Sr 421.552†	-258.0	36.9	0.0863	µg/L	0.0863	ppb	20:29:26
3	Sc 361.383	1808598.8	1808598.8	108.12	%			20:30:38
3	Y 371.029	1103697.9	1103697.9	107.93	%			20:30:38
3	Ag 328.068†	3080.6	-117.8	-0.4590	µg/L	-0.4590	ppb	20:30:40
3	As 188.979†	-19.0	-3.3	-1.3666	µg/L	-1.3666	ppb	20:31:00
3	B 249.677†	4718.9	1008.8	16.936	µg/L	16.936	ppb	20:30:40
3	Ba 233.527†	-152.9	33.6	0.1530	µg/L	0.1530	ppb	20:31:00
3	Be 313.107†	-540.5	160.2	0.0593	µg/L	0.0593	ppb	20:30:40
3	Cd 226.502†	-106.7	-4.3	-0.0307	µg/L	-0.0307	ppb	20:31:00
3	Co 228.616†	-176.5	13.3	0.1820	µg/L	0.1820	ppb	20:31:00
3	Cr 267.716†	239.4	61.2	0.5073	µg/L	0.5073	ppb	20:31:00
3	Cu 324.752†	2700.0	72.3	0.3355	µg/L	0.3355	ppb	20:30:40
3	Mn 257.610†	418.0	306.6	0.4193	µg/L	0.4193	ppb	20:31:00
3	Mo 202.031†	-39.8	18.4	0.5817	µg/L	0.5817	ppb	20:31:00
3	Ni 231.604†	-55.6	-10.6	-0.1350	µg/L	-0.1350	ppb	20:31:00
3	P 214.914†	57.1	-26.7	-6.4170	µg/L	-6.4170	ppb	20:31:00
3	Pb 220.353†	84.1	-34.6	-2.1127	µg/L	-2.1127	ppb	20:31:00
3	S 181.975 Axial†	119.9	16.1	13.026	µg/L	13.026	ppb	20:31:00
3	Sb 206.836†	83.5	-9.4	-1.2705	µg/L	-1.2705	ppb	20:31:00
3	Se 196.026†	34.2	20.7	8.23	µg/L	8.23	ppb	20:31:00
3	SiO2†	37261.4	32890.3	3594.9	µg/L	3594.9	ppb	20:30:40
3	Si 251.611†	110421.6	101452.6	1677.5	µg/L	1677.5	ppb	20:30:40
3	Sn 189.927†	1.0	-1.1	-0.0762	µg/L	-0.0762	ppb	20:31:00
3	Ti 334.940†	1055.6	340.0	0.3383	µg/L	0.3383	ppb	20:30:40
3	Tl 190.801†	-133.9	-3.6	-0.4826	µg/L	-0.4826	ppb	20:31:00
3	U 409.014†	-106.3	380.8	23.486	µg/L	23.486	ppb	20:30:40
3	V 292.402†	316.3	-139.2	-0.7505	µg/L	-0.7505	ppb	20:30:40
3	Zn 213.857†	713.0	195.0	1.2271	µg/L	1.2271	ppb	20:31:00

Mean Data: 1202056868|959109|1

Analyte	Mean Corrected	Conc.	Calib.	Std.Dev.	Conc.	Sample	Std.Dev.	RSD
Sc 361.383	1786503.9	106.80	%	1.443				1.35%
Sc RADIAL	156592.0	107	%	0.7				0.69%
Y 371.029	1090875.9	106.68	%	1.378				1.29%
Ag 328.068†	-149.9	-0.6072	µg/L	0.28174	-0.6072	ppb	0.28174	46.40%
Al 396.153Radial†	41.4	9.0128	µg/L	2.49807	9.0128	ppb	2.49807	27.72%
As 188.979†	3.1	1.3187	µg/L	2.53109	1.3187	ppb	2.53109	191.93%
B 249.677†	1042.1	17.495	µg/L	1.0647	17.495	ppb	1.0647	6.09%
Ba 233.527†	35.3	0.1610	µg/L	0.02882	0.1610	ppb	0.02882	17.90%
Be 313.107†	64.4	0.0232	µg/L	0.07179	0.0232	ppb	0.07179	309.06%
Ca 317.933Radial†	453.4	26.569	µg/L	1.9028	26.569	ppb	1.9028	7.16%
Cd 226.502†	-10.3	-0.0727	µg/L	0.10161	-0.0727	ppb	0.10161	139.72%
Co 228.616†	1.0	0.0129	µg/L	0.14648	0.0129	ppb	0.14648	>999.9%
Cr 267.716†	38.3	0.3234	µg/L	0.15925	0.3234	ppb	0.15925	49.24%
Cu 324.752†	151.5	0.6662	µg/L	0.28654	0.6662	ppb	0.28654	43.01%
Fe 238.204 Radial†	190.5	12.663	µg/L	0.7981	12.663	ppb	0.7981	6.30%
K 766.490 Radial†	52.0	21.387	µg/L	19.1126	21.387	ppb	19.1126	89.36%
Mg 279.077 IEC†	-19.7	-8.1052	µg/L	1.35921	-8.1052	ppb	1.35921	16.77%
Mn 257.610†	313.8	0.4291	µg/L	0.01628	0.4291	ppb	0.01628	3.79%
Mo 202.031†	23.2	0.7323	µg/L	0.13290	0.7323	ppb	0.13290	18.15%
Na 589.592 Radial†	683.7	104.60	µg/L	7.797	104.60	ppb	7.797	7.45%

Ni 231.604†	-13.6	-0.1740 µg/L	0.05275	-0.1740 ppb	0.05275	30.31%
P 214.914†	-23.7	-5.6934 µg/L	2.46290	-5.6934 ppb	2.46290	43.26%
Pb 220.353†	-25.6	-1.5564 µg/L	1.43946	-1.5564 ppb	1.43946	92.48%
S 181.975 Axial†	19.3	15.643 µg/L	3.5579	15.643 ppb	3.5579	22.74%
Sb 206.836†	-7.5	-1.0113 µg/L	0.23412	-1.0113 ppb	0.23412	23.15%
Se 196.026†	-0.9	-0.337 µg/L	7.4460	-0.337 ppb	7.4460	>999.9%
SiO2†	33096.3	3617.4 µg/L	24.53	3617.4 ppb	24.53	0.68%
Si 251.611†	101931.3	1685.4 µg/L	9.17	1685.4 ppb	9.17	0.54%
Sn 189.927†	-5.6	-0.3943 µg/L	0.27586	-0.3943 ppb	0.27586	69.96%
Sr 421.552†	56.8	0.1330 µg/L	0.08445	0.1330 ppb	0.08445	63.48%
Ti 334.940†	391.8	0.3977 µg/L	0.05461	0.3977 ppb	0.05461	13.73%
Tl 190.801†	3.3	0.4456 µg/L	0.92922	0.4456 ppb	0.92922	208.53%
U 409.014†	121.3	7.4590 µg/L	13.88940	7.4590 ppb	13.88940	186.21%
V 292.402†	-110.7	-0.6025 µg/L	0.20584	-0.6025 ppb	0.20584	34.17%
Zn 213.857†	204.1	1.2842 µg/L	0.05246	1.2842 ppb	0.05246	4.08%

Sequence No.: 34

Sample ID: 1202056869|959109|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 328

Date Collected: 3/29/2010 20:31:08

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056869|959109|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	155173.2	155173.2	106 %		20:31:40
1	Al 396.153Radial†	25444.3	23931.7	5202.0 µg/L	5202.0 ppb	20:31:40
1	Ca 317.933Radial†	90784.5	84657.6	4960.6 µg/L	4960.6 ppb	20:31:40
1	Fe 238.204 Radial†	78628.2	73742.1	4902.6 µg/L	4902.6 ppb	20:31:40
1	K 766.490 Radial†	14184.1	11868.1	4882.5 µg/L	4882.5 ppb	20:31:40
1	Mg 279.077 IEC†	13252.1	12261.1	5062.7 µg/L	5062.7 ppb	20:31:40
1	Na 589.592 Radial†	37067.5	33122.8	5063.9 µg/L	5063.9 ppb	20:31:40
1	Sr 421.552†	227630.8	214091.5	501.74 µg/L	501.74 ppb	20:31:38
1	Sc 361.383	1761502.0	1761502.0	105.30 %		20:31:53
1	Y 371.029	1067002.4	1067002.4	104.34 %		20:31:53
1	Ag 328.068†	125554.4	116263.1	477.99 µg/L	477.99 ppb	20:31:53
1	As 188.979†	1318.7	1266.5	536.32 µg/L	536.32 ppb	20:32:13
1	B 249.677†	34862.3	29750.6	497.82 µg/L	497.82 ppb	20:31:53
1	Ba 233.527†	116159.4	110483.5	505.12 µg/L	505.12 ppb	20:31:53
1	Be 313.107†	1635678.5	1553948.8	505.97 µg/L	505.97 ppb	20:31:53
1	Cd 226.502†	72484.2	68927.6	475.69 µg/L	475.69 ppb	20:31:53
1	Co 228.616†	36563.5	34898.4	478.13 µg/L	478.13 ppb	20:31:53
1	Cr 267.716†	60102.4	56914.7	488.72 µg/L	488.72 ppb	20:31:53
1	Cu 324.752†	122861.2	114247.7	498.16 µg/L	498.16 ppb	20:31:53
1	Mn 257.610†	377210.3	358130.0	489.15 µg/L	489.15 ppb	20:31:53
1	Mo 202.031†	15727.8	14990.8	473.65 µg/L	473.65 ppb	20:32:13
1	Ni 231.604†	40361.4	38369.3	490.79 µg/L	490.79 ppb	20:31:53
1	P 214.914†	2170.4	1981.5	466.20 µg/L	466.20 ppb	20:32:13
1	Pb 220.353†	8431.7	7894.5	479.75 µg/L	479.75 ppb	20:32:13
1	S 181.975 Axial†	6297.0	5885.0	4771.9 µg/L	4771.9 ppb	20:32:13
1	Sb 206.836†	3844.4	3564.1	481.68 µg/L	481.68 ppb	20:32:13
1	Se 196.026†	1245.3	1171.7	466 µg/L	466 ppb	20:32:13
1	SiO2†	137768.6	129256.3	14107 µg/L	14107 ppb	20:31:53
1	Si 251.611†	420279.6	398433.6	6578.5 µg/L	6578.5 ppb	20:31:53
1	Sn 189.927†	7190.0	6825.8	486.90 µg/L	486.90 ppb	20:32:13
1	Ti 334.940†	504113.7	478085.0	486.86 µg/L	486.86 ppb	20:31:53
1	Tl 190.801†	3635.9	3573.0	487.00 µg/L	487.00 ppb	20:32:13
1	U 409.014†	7293.2	7404.9	487.70 µg/L	487.70 ppb	20:31:53
1	V 292.402†	94226.2	89048.2	500.03 µg/L	500.03 ppb	20:31:53
1	Zn 213.857†	79872.0	75384.4	470.66 µg/L	470.66 ppb	20:31:53
2	Sc RADIAL	156899.2	156899.2	108 %		20:31:44
2	Al 396.153Radial†	25617.4	23829.6	5179.6 µg/L	5179.6 ppb	20:31:44
2	Ca 317.933Radial†	90933.3	83857.8	4913.7 µg/L	4913.7 ppb	20:31:44
2	Fe 238.204 Radial†	78908.7	73190.4	4865.9 µg/L	4865.9 ppb	20:31:44
2	K 766.490 Radial†	14241.7	11775.1	4844.3 µg/L	4844.3 ppb	20:31:44
2	Mg 279.077 IEC†	13381.3	12244.2	5055.9 µg/L	5055.9 ppb	20:31:44
2	Na 589.592 Radial†	37010.1	32686.4	4997.1 µg/L	4997.1 ppb	20:31:44
2	Sr 421.552†	231155.0	215013.4	503.90 µg/L	503.90 ppb	20:31:42
2	Sc 361.383	1755110.4	1755110.4	104.92 %		20:32:16
2	Y 371.029	1062740.2	1062740.2	103.93 %		20:32:16
2	Ag 328.068†	124228.5	115433.7	474.58 µg/L	474.58 ppb	20:32:16
2	As 188.979†	1305.9	1258.9	533.08 µg/L	533.08 ppb	20:32:36
2	B 249.677†	34397.7	29428.3	492.43 µg/L	492.43 ppb	20:32:16
2	Ba 233.527†	114769.6	109560.5	500.91 µg/L	500.91 ppb	20:32:16
2	Be 313.107†	1612974.7	1537966.8	500.78 µg/L	500.78 ppb	20:32:16
2	Cd 226.502†	71427.6	68171.1	470.46 µg/L	470.46 ppb	20:32:16
2	Co 228.616†	35967.1	34456.4	472.08 µg/L	472.08 ppb	20:32:16
2	Cr 267.716†	59284.8	56343.4	483.81 µg/L	483.81 ppb	20:32:16
2	Cu 324.752†	121545.6	113418.8	494.55 µg/L	494.55 ppb	20:32:16
2	Mn 257.610†	372734.9	355169.1	485.10 µg/L	485.10 ppb	20:32:16
2	Mo 202.031†	15763.3	15079.0	476.44 µg/L	476.44 ppb	20:32:36
2	Ni 231.604†	39797.0	37971.0	485.69 µg/L	485.69 ppb	20:32:16
2	P 214.914†	2160.1	1979.2	465.69 µg/L	465.69 ppb	20:32:36
2	Pb 220.353†	8415.6	7908.4	480.58 µg/L	480.58 ppb	20:32:36

2	S 181.975 Axial†	6313.6	5922.6	4802.4 µg/L	4802.4 ppb	20:32:36
2	Sb 206.836†	3883.0	3614.2	488.54 µg/L	488.54 ppb	20:32:36
2	Se 196.026†	1227.9	1159.4	461 µg/L	461 ppb	20:32:36
2	SiO2†	136216.4	128253.3	13998 µg/L	13998 ppb	20:32:16
2	Si 251.611†	414914.9	394774.0	6518.0 µg/L	6518.0 ppb	20:32:16
2	Sn 189.927†	7187.1	6848.0	488.46 µg/L	488.46 ppb	20:32:36
2	Ti 334.940†	497936.6	473941.0	482.63 µg/L	482.63 ppb	20:32:16
2	Tl 190.801†	3627.1	3577.2	487.50 µg/L	487.50 ppb	20:32:36
2	U 409.014†	7469.7	7598.4	499.35 µg/L	499.35 ppb	20:32:16
2	V 292.402†	92923.6	88132.5	494.98 µg/L	494.98 ppb	20:32:16
2	Zn 213.857†	78672.7	74517.6	465.24 µg/L	465.24 ppb	20:32:16
3	Sc RADIAL	154673.6	154673.6	106 %		20:31:48
3	Al 396.153Radial†	25364.6	23933.8	5202.4 µg/L	5202.4 ppb	20:31:48
3	Ca 317.933Radial†	89849.9	84052.4	4925.1 µg/L	4925.1 ppb	20:31:48
3	Fe 238.204 Radial†	77863.0	73259.7	4870.6 µg/L	4870.6 ppb	20:31:48
3	K 766.490 Radial†	14036.5	11772.1	4843.0 µg/L	4843.0 ppb	20:31:48
3	Mg 279.077 IEC†	13183.2	12236.3	5052.6 µg/L	5052.6 ppb	20:31:48
3	Na 589.592 Radial†	36715.1	32903.2	5030.3 µg/L	5030.3 ppb	20:31:48
3	Sr 421.552†	229351.6	216403.8	507.15 µg/L	507.15 ppb	20:31:46
3	Sc 361.383	1749797.0	1749797.0	104.60 %		20:32:39
3	Y 371.029	1059994.9	1059994.9	103.66 %		20:32:39
3	Ag 328.068†	123685.5	115274.1	473.97 µg/L	473.97 ppb	20:32:39
3	As 188.979†	1305.1	1261.8	534.33 µg/L	534.33 ppb	20:32:59
3	B 249.677†	34390.8	29521.3	493.98 µg/L	493.98 ppb	20:32:39
3	Ba 233.527†	114376.9	109517.3	500.71 µg/L	500.71 ppb	20:32:39
3	Be 313.107†	1610890.2	1540642.2	501.65 µg/L	501.65 ppb	20:32:39
3	Cd 226.502†	71427.6	68377.9	471.89 µg/L	471.89 ppb	20:32:39
3	Co 228.616†	35913.1	34508.9	472.80 µg/L	472.80 ppb	20:32:39
3	Cr 267.716†	59176.2	56411.2	484.38 µg/L	484.38 ppb	20:32:39
3	Cu 324.752†	121092.5	113337.3	494.21 µg/L	494.21 ppb	20:32:39
3	Mn 257.610†	371785.9	355340.7	485.34 µg/L	485.34 ppb	20:32:39
3	Mo 202.031†	15659.5	15025.5	474.75 µg/L	474.75 ppb	20:32:59
3	Ni 231.604†	39667.9	37962.7	485.59 µg/L	485.59 ppb	20:32:39
3	P 214.914†	2173.7	1998.5	470.31 µg/L	470.31 ppb	20:32:59
3	Pb 220.353†	8340.4	7860.8	477.69 µg/L	477.69 ppb	20:32:59
3	S 181.975 Axial†	6267.6	5896.9	4781.6 µg/L	4781.6 ppb	20:32:59
3	Sb 206.836†	3843.7	3587.8	484.95 µg/L	484.95 ppb	20:32:59
3	Se 196.026†	1216.1	1151.7	458 µg/L	458 ppb	20:32:59
3	SiO2†	135757.7	128209.1	13993 µg/L	13993 ppb	20:32:39
3	Si 251.611†	413665.6	394780.5	6518.1 µg/L	6518.1 ppb	20:32:39
3	Sn 189.927†	7131.3	6815.4	486.15 µg/L	486.15 ppb	20:32:59
3	Ti 334.940†	496950.9	474439.8	483.14 µg/L	483.14 ppb	20:32:39
3	Tl 190.801†	3586.0	3548.5	483.66 µg/L	483.66 ppb	20:32:59
3	U 409.014†	7658.5	7800.5	511.91 µg/L	511.91 ppb	20:32:39
3	V 292.402†	92890.1	88369.4	496.28 µg/L	496.28 ppb	20:32:39
3	Zn 213.857†	78647.3	74721.0	466.52 µg/L	466.52 ppb	20:32:39

Mean Data: 1202056869|959109|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1755469.8	104.94 %	0.350			0.33%
Sc RADIAL	155582.0	107 %	0.8			0.75%
Y 371.029	1063245.8	103.98 %	0.345			0.33%
Ag 328.068†	115657.0	475.52 µg/L	2.168	475.52 ppb	2.168	0.46%
Al 396.153Radial†	23898.4	5194.7 µg/L	13.07	5194.7 ppb	13.07	0.25%
As 188.979†	1262.4	534.58 µg/L	1.631	534.58 ppb	1.631	0.31%
B 249.677†	29566.8	494.74 µg/L	2.773	494.74 ppb	2.773	0.56%
Ba 233.527†	109853.8	502.25 µg/L	2.494	502.25 ppb	2.494	0.50%
Be 313.107†	1544185.9	502.80 µg/L	2.784	502.80 ppb	2.784	0.55%
Ca 317.933Radial†	84189.3	4933.1 µg/L	24.44	4933.1 ppb	24.44	0.50%
Cd 226.502†	68492.2	472.68 µg/L	2.699	472.68 ppb	2.699	0.57%
Co 228.616†	34621.2	474.34 µg/L	3.308	474.34 ppb	3.308	0.70%
Cr 267.716†	56556.5	485.64 µg/L	2.690	485.64 ppb	2.690	0.55%
Cu 324.752†	113668.0	495.64 µg/L	2.186	495.64 ppb	2.186	0.44%
Fe 238.204 Radial†	73397.4	4879.7 µg/L	19.98	4879.7 ppb	19.98	0.41%
K 766.490 Radial†	11805.1	4856.6 µg/L	22.46	4856.6 ppb	22.46	0.46%
Mg 279.077 IEC†	12247.2	5057.1 µg/L	5.18	5057.1 ppb	5.18	0.10%
Mn 257.610†	356213.3	486.53 µg/L	2.271	486.53 ppb	2.271	0.47%
Mo 202.031†	15031.8	474.95 µg/L	1.401	474.95 ppb	1.401	0.30%
Na 589.592 Radial†	32904.1	5030.4 µg/L	33.36	5030.4 ppb	33.36	0.66%

Ni 231.604†	38101.0	487.36 µg/L	2.973	487.36 ppb	2.973	0.61%
P 214.914†	1986.4	467.40 µg/L	2.533	467.40 ppb	2.533	0.54%
Pb 220.353†	7887.9	479.34 µg/L	1.490	479.34 ppb	1.490	0.31%
S 181.975 Axial†	5901.5	4785.3 µg/L	15.57	4785.3 ppb	15.57	0.33%
Sb 206.836†	3588.7	485.06 µg/L	3.434	485.06 ppb	3.434	0.71%
Se 196.026†	1160.9	461 µg/L	4.0	461 ppb	4.0	0.87%
SiO2†	128572.9	14033 µg/L	64.8	14033 ppb	64.8	0.46%
Si 251.611†	395996.0	6538.2 µg/L	34.92	6538.2 ppb	34.92	0.53%
Sn 189.927†	6829.7	487.17 µg/L	1.180	487.17 ppb	1.180	0.24%
Sr 421.552†	215169.6	504.26 µg/L	2.728	504.26 ppb	2.728	0.54%
Ti 334.940†	475488.6	484.21 µg/L	2.310	484.21 ppb	2.310	0.48%
Tl 190.801†	3566.2	486.05 µg/L	2.089	486.05 ppb	2.089	0.43%
U 409.014†	7601.2	499.65 µg/L	12.109	499.65 ppb	12.109	2.42%
V 292.402†	88516.7	497.10 µg/L	2.623	497.10 ppb	2.623	0.53%
Zn 213.857†	74874.3	467.47 µg/L	2.831	467.47 ppb	2.831	0.61%

Sequence No.: 35

Sample ID: 1202056870|959109|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 329

Date Collected: 3/29/2010 20:33:07

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056870|959109|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	157991.8	157991.8	108 %		20:33:37
1	Al 396.153Radial†	-48.0	-12.4	-2.7357 µg/L	-2.7357 ppb	20:33:57
1	Ca 317.933Radial†	854.0	171.7	10.059 µg/L	10.059 ppb	20:33:57
1	Fe 238.204 Radial†	231.5	100.2	6.6647 µg/L	6.6647 ppb	20:33:57
1	K 766.490 Radial†	1603.1	23.9	9.8525 µg/L	9.8525 ppb	20:33:37
1	Mg 279.077 IEC†	172.2	-27.8	-11.444 µg/L	-11.444 ppb	20:33:57
1	Na 589.592 Radial†	1691.9	-133.8	-20.487 µg/L	-20.487 ppb	20:33:37
1	Sr 421.552†	-116.8	170.2	0.3988 µg/L	0.3988 ppb	20:33:37
1	Sc 361.383	1767023.5	1767023.5	105.63 %		20:34:45
1	Y 371.029	1081596.6	1081596.6	105.77 %		20:34:45
1	Ag 328.068†	3032.9	-95.9	-0.3816 µg/L	-0.3816 ppb	20:34:47
1	As 188.979†	-29.7	-13.9	-5.7879 µg/L	-5.7879 ppb	20:35:07
1	B 249.677†	3478.3	-62.9	-1.0574 µg/L	-1.0574 ppb	20:35:07
1	Ba 233.527†	-166.2	17.7	0.0806 µg/L	0.0806 ppb	20:35:07
1	Be 313.107†	-429.4	253.6	0.0870 µg/L	0.0870 ppb	20:34:47
1	Cd 226.502†	-108.6	-8.4	-0.0587 µg/L	-0.0587 ppb	20:35:07
1	Co 228.616†	-174.4	11.5	0.1572 µg/L	0.1572 ppb	20:35:07
1	Cr 267.716†	162.4	-6.5	-0.0677 µg/L	-0.0677 ppb	20:35:07
1	Cu 324.752†	2781.7	208.5	0.9194 µg/L	0.9194 ppb	20:34:47
1	Mn 257.610†	238.1	145.4	0.1992 µg/L	0.1992 ppb	20:35:07
1	Mo 202.031†	-40.1	17.2	0.5430 µg/L	0.5430 ppb	20:35:07
1	Ni 231.604†	-43.1	0.1	0.0010 µg/L	0.0010 ppb	20:35:07
1	P 214.914†	39.0	-42.7	-10.248 µg/L	-10.248 ppb	20:35:07
1	Pb 220.353†	86.2	-30.9	-1.8797 µg/L	-1.8797 ppb	20:35:07
1	S 181.975 Axial†	93.6	-6.2	-5.0374 µg/L	-5.0374 ppb	20:35:07
1	Sb 206.836†	75.3	-15.4	-2.0713 µg/L	-2.0713 ppb	20:35:07
1	Se 196.026†	16.5	4.7	1.89 µg/L	1.89 ppb	20:35:07
1	SiO2†	8989.0	6936.7	758.18 µg/L	758.18 ppb	20:34:47
1	Si 251.611†	22783.7	20892.1	345.45 µg/L	345.45 ppb	20:34:47
1	Sn 189.927†	-8.1	-9.7	-0.6886 µg/L	-0.6886 ppb	20:35:07
1	Ti 334.940†	944.5	257.7	0.2580 µg/L	0.2580 ppb	20:34:47
1	Tl 190.801†	-107.1	18.9	2.5327 µg/L	2.5327 ppb	20:35:07
1	U 409.014†	-252.8	239.8	14.768 µg/L	14.768 ppb	20:34:47
1	V 292.402†	289.1	-158.2	-0.8633 µg/L	-0.8633 ppb	20:34:47
1	Zn 213.857†	611.9	114.8	0.7213 µg/L	0.7213 ppb	20:35:07
2	Sc RADIAL	157710.0	157710.0	108 %		20:33:59
2	Al 396.153Radial†	-49.6	-14.0	-3.0882 µg/L	-3.0882 ppb	20:34:19
2	Ca 317.933Radial†	860.5	179.1	10.493 µg/L	10.493 ppb	20:34:19
2	Fe 238.204 Radial†	244.9	113.0	7.5133 µg/L	7.5133 ppb	20:34:19
2	K 766.490 Radial†	1460.2	-105.5	-43.423 µg/L	-43.423 ppb	20:33:59
2	Mg 279.077 IEC†	176.8	-23.3	-9.5962 µg/L	-9.5962 ppb	20:34:19
2	Na 589.592 Radial†	1698.8	-124.7	-19.037 µg/L	-19.037 ppb	20:33:59
2	Sr 421.552†	-173.6	117.5	0.2754 µg/L	0.2754 ppb	20:33:59
2	Sc 361.383	1789131.0	1789131.0	106.96 %		20:35:09
2	Y 371.029	1094714.6	1094714.6	107.05 %		20:35:09
2	Ag 328.068†	3142.7	-28.7	-0.1196 µg/L	-0.1196 ppb	20:35:11
2	As 188.979†	-9.5	5.4	2.2489 µg/L	2.2489 ppb	20:35:31
2	B 249.677†	3452.5	-127.7	-2.1455 µg/L	-2.1455 ppb	20:35:31
2	Ba 233.527†	-189.5	-2.1	-0.0103 µg/L	-0.0103 ppb	20:35:31
2	Be 313.107†	-451.5	238.0	0.0807 µg/L	0.0807 ppb	20:35:11
2	Cd 226.502†	-74.9	24.4	0.1679 µg/L	0.1679 ppb	20:35:31
2	Co 228.616†	-163.0	24.2	0.3314 µg/L	0.3314 ppb	20:35:31
2	Cr 267.716†	159.7	-10.9	-0.1026 µg/L	-0.1026 ppb	20:35:31
2	Cu 324.752†	2679.7	80.5	0.3599 µg/L	0.3599 ppb	20:35:11
2	Mn 257.610†	248.2	152.0	0.2081 µg/L	0.2081 ppb	20:35:31
2	Mo 202.031†	-31.2	26.0	0.8209 µg/L	0.8209 ppb	20:35:31
2	Ni 231.604†	-35.3	7.9	0.1009 µg/L	0.1009 ppb	20:35:31
2	P 214.914†	53.0	-30.0	-7.2103 µg/L	-7.2103 ppb	20:35:31
2	Pb 220.353†	94.9	-23.7	-1.4404 µg/L	-1.4404 ppb	20:35:31

2	S 181.975 Axial†	100.8	-0.6	-0.5005 µg/L	-0.5005 ppb	20:35:31
2	Sb 206.836†	95.7	2.9	0.3965 µg/L	0.3965 ppb	20:35:31
2	Se 196.026†	20.0	7.8	3.10 µg/L	3.10 ppb	20:35:31
2	SiO2†	8961.6	6805.9	743.88 µg/L	743.88 ppb	20:35:11
2	Si 251.611†	23204.1	21018.6	347.53 µg/L	347.53 ppb	20:35:11
2	Sn 189.927†	-8.6	-10.0	-0.7125 µg/L	-0.7125 ppb	20:35:31
2	Ti 334.940†	805.3	116.5	0.1155 µg/L	0.1155 ppb	20:35:11
2	Tl 190.801†	-109.4	18.0	2.4093 µg/L	2.4093 ppb	20:35:31
2	U 409.014†	-326.2	174.1	10.682 µg/L	10.682 ppb	20:35:11
2	V 292.402†	206.2	-239.1	-1.3121 µg/L	-1.3121 ppb	20:35:11
2	Zn 213.857†	662.0	154.5	0.9709 µg/L	0.9709 ppb	20:35:31
3	Sc RADIAL	156329.8	156329.8	107 %		20:34:21
3	Al 396.153Radial†	-21.1	12.2	2.6224 µg/L	2.6224 ppb	20:34:41
3	Ca 317.933Radial†	855.0	181.0	10.603 µg/L	10.603 ppb	20:34:41
3	Fe 238.204 Radial†	238.4	109.0	7.2477 µg/L	7.2477 ppb	20:34:41
3	K 766.490 Radial†	1444.2	-108.5	-44.654 µg/L	-44.654 ppb	20:34:21
3	Mg 279.077 IEC†	187.2	-12.1	-4.9847 µg/L	-4.9847 ppb	20:34:41
3	Na 589.592 Radial†	1681.5	-127.0	-19.393 µg/L	-19.393 ppb	20:34:21
3	Sr 421.552†	-337.2	-36.4	-0.0854 µg/L	-0.0854 ppb	20:34:21
3	Sc 361.383	1763307.4	1763307.4	105.41 %		20:35:33
3	Y 371.029	1079799.3	1079799.3	105.60 %		20:35:33
3	Ag 328.068†	3157.2	28.0	0.1284 µg/L	0.1284 ppb	20:35:35
3	As 188.979†	-16.8	-1.7	-0.7072 µg/L	-0.7072 ppb	20:35:55
3	B 249.677†	3408.0	-122.6	-2.0595 µg/L	-2.0595 ppb	20:35:55
3	Ba 233.527†	-156.9	26.2	0.1191 µg/L	0.1191 ppb	20:35:55
3	Be 313.107†	-635.8	56.9	0.0267 µg/L	0.0267 ppb	20:35:35
3	Cd 226.502†	-93.6	5.6	0.0379 µg/L	0.0379 ppb	20:35:55
3	Co 228.616†	-166.9	18.2	0.2495 µg/L	0.2495 ppb	20:35:55
3	Cr 267.716†	167.0	-1.8	-0.0372 µg/L	-0.0372 ppb	20:35:55
3	Cu 324.752†	2620.4	61.0	0.2883 µg/L	0.2883 ppb	20:35:35
3	Mn 257.610†	281.4	187.0	0.2557 µg/L	0.2557 ppb	20:35:55
3	Mo 202.031†	-22.1	34.3	1.0814 µg/L	1.0814 ppb	20:35:55
3	Ni 231.604†	-42.2	0.9	0.0114 µg/L	0.0114 ppb	20:35:55
3	P 214.914†	47.8	-34.2	-8.2133 µg/L	-8.2133 ppb	20:35:55
3	Pb 220.353†	93.6	-23.6	-1.4459 µg/L	-1.4459 ppb	20:35:55
3	S 181.975 Axial†	96.2	-3.5	-2.8511 µg/L	-2.8511 ppb	20:35:55
3	Sb 206.836†	70.1	-20.2	-2.7063 µg/L	-2.7063 ppb	20:35:55
3	Se 196.026†	12.6	1.0	0.428 µg/L	0.428 ppb	20:35:55
3	SiO2†	8819.2	6793.6	742.51 µg/L	742.51 ppb	20:35:35
3	Si 251.611†	22832.6	20983.9	346.95 µg/L	346.95 ppb	20:35:35
3	Sn 189.927†	9.7	7.2	0.5106 µg/L	0.5106 ppb	20:35:55
3	Ti 334.940†	1035.3	345.8	0.3423 µg/L	0.3423 ppb	20:35:35
3	Tl 190.801†	-115.5	10.8	1.4385 µg/L	1.4385 ppb	20:35:55
3	U 409.014†	-45.2	436.2	26.866 µg/L	26.866 ppb	20:35:35
3	V 292.402†	167.7	-272.7	-1.4852 µg/L	-1.4852 ppb	20:35:35
3	Zn 213.857†	617.9	121.8	0.7658 µg/L	0.7658 ppb	20:35:55

Mean Data: 1202056870|959109|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1773154.0	106.00 %	0.835			0.79%
Sc RADIAL	157343.9	108 %	0.6			0.57%
Y 371.029	1085370.2	106.14 %	0.796			0.75%
Ag 328.068†	-32.2	-0.1243 µg/L	0.25504	-0.1243 ppb	0.25504	205.20%
Al 396.153Radial†	-4.7	-1.0672 µg/L	3.20015	-1.0672 ppb	3.20015	299.87%
As 188.979†	-3.4	-1.4154 µg/L	4.06495	-1.4154 ppb	4.06495	287.20%
B 249.677†	-104.4	-1.7541 µg/L	0.60492	-1.7541 ppb	0.60492	34.49%
Ba 233.527†	14.0	0.0631 µg/L	0.06644	0.0631 ppb	0.06644	105.24%
Be 313.107†	182.9	0.0648 µg/L	0.03318	0.0648 ppb	0.03318	51.19%
Ca 317.933Radial†	177.2	10.385 µg/L	0.2880	10.385 ppb	0.2880	2.77%
Cd 226.502†	7.2	0.0490 µg/L	0.11369	0.0490 ppb	0.11369	231.87%
Co 228.616†	18.0	0.2460 µg/L	0.08710	0.2460 ppb	0.08710	35.41%
Cr 267.716†	-6.4	-0.0691 µg/L	0.03271	-0.0691 ppb	0.03271	47.32%
Cu 324.752†	116.7	0.5225 µg/L	0.34551	0.5225 ppb	0.34551	66.12%
Fe 238.204 Radial†	107.4	7.1419 µg/L	0.43409	7.1419 ppb	0.43409	6.08%
K 766.490 Radial†	-63.3	-26.075 µg/L	31.1201	-26.075 ppb	31.1201	119.35%
Mg 279.077 IEC†	-21.1	-8.6750 µg/L	3.32671	-8.6750 ppb	3.32671	38.35%
Mn 257.610†	161.5	0.2210 µg/L	0.03037	0.2210 ppb	0.03037	13.74%
Mo 202.031†	25.8	0.8151 µg/L	0.26928	0.8151 ppb	0.26928	33.04%
Na 589.592 Radial†	-128.5	-19.639 µg/L	0.7556	-19.639 ppb	0.7556	3.85%

Ni 231.604†	3.0	0.0378 µg/L	0.05491	0.0378 ppb	0.05491	145.35%
P 214.914†	-35.6	-8.5571 µg/L	1.54759	-8.5571 ppb	1.54759	18.09%
Pb 220.353†	-26.0	-1.5887 µg/L	0.25207	-1.5887 ppb	0.25207	15.87%
S 181.975 Axial†	-3.5	-2.7963 µg/L	2.26896	-2.7963 ppb	2.26896	81.14%
Sb 206.836†	-10.9	-1.4604 µg/L	1.63913	-1.4604 ppb	1.63913	112.24%
Se 196.026†	4.5	1.80 µg/L	1.336	1.80 ppb	1.336	74.10%
SiO2†	6845.4	748.19 µg/L	8.682	748.19 ppb	8.682	1.16%
Si 251.611†	20964.9	346.64 µg/L	1.077	346.64 ppb	1.077	0.31%
Sn 189.927†	-4.2	-0.2968 µg/L	0.69935	-0.2968 ppb	0.69935	235.59%
Sr 421.552†	83.8	0.1963 µg/L	0.25162	0.1963 ppb	0.25162	128.20%
Ti 334.940†	240.0	0.2386 µg/L	0.11463	0.2386 ppb	0.11463	48.04%
Tl 190.801†	15.9	2.1268 µg/L	0.59929	2.1268 ppb	0.59929	28.18%
U 409.014†	283.4	17.439 µg/L	8.4162	17.439 ppb	8.4162	48.26%
V 292.402†	-223.3	-1.2202 µg/L	0.32097	-1.2202 ppb	0.32097	26.31%
Zn 213.857†	130.4	0.8193 µg/L	0.13310	0.8193 ppb	0.13310	16.24%

Sequence No.: 37

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/29/2010 20:39:13

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	158480.3	158480.3	109 %		20:39:46
1	Al 396.153Radial†	25899.3	23851.4	5184.2 µg/L	5184.2 ppb	20:39:46
1	Ca 317.933Radial†	91372.8	83419.3	4888.0 µg/L	4888.0 ppb	20:39:46
1	Fe 238.204 Radial†	79864.5	73338.0	4875.8 µg/L	4875.8 ppb	20:39:46
1	K 766.490 Radial†	13976.2	11398.9	4688.7 µg/L	4688.7 ppb	20:39:46
1	Mg 279.077 IEC†	13513.6	12241.7	5054.9 µg/L	5054.9 ppb	20:39:46
1	Na 589.592 Radial†	70984.5	63589.7	9725.9 µg/L	9725.9 ppb	20:39:46
1	Sr 421.552†	231158.4	212874.2	498.88 µg/L	498.88 ppb	20:39:44
1	Sc 361.383	1746203.9	1746203.9	104.39 %		20:40:13
1	Y 371.029	1060403.2	1060403.2	103.70 %		20:40:13
1	Ag 328.068†	129222.9	120821.9	496.49 µg/L	496.49 ppb	20:40:13
1	As 188.979†	1283.9	1244.1	526.99 µg/L	526.99 ppb	20:40:33
1	B 249.677†	33276.5	28521.6	477.15 µg/L	477.15 ppb	20:40:13
1	Ba 233.527†	114363.4	109729.4	501.68 µg/L	501.68 ppb	20:40:13
1	Be 313.107†	1632572.9	1564581.9	509.43 µg/L	509.43 ppb	20:40:13
1	Cd 226.502†	72628.8	69669.1	480.81 µg/L	480.81 ppb	20:40:13
1	Co 228.616†	36875.4	35501.3	486.39 µg/L	486.39 ppb	20:40:13
1	Cr 267.716†	59790.0	57115.6	490.45 µg/L	490.45 ppb	20:40:13
1	Cu 324.752†	120808.8	113303.8	494.05 µg/L	494.05 ppb	20:40:13
1	Mn 257.610†	375213.3	359355.3	490.82 µg/L	490.82 ppb	20:40:13
1	Mo 202.031†	15789.8	15181.1	479.66 µg/L	479.66 ppb	20:40:33
1	Ni 231.604†	39738.4	38108.3	487.45 µg/L	487.45 ppb	20:40:13
1	P 214.914†	10363.4	9848.0	2350.1 µg/L	2350.1 ppb	20:40:33
1	Pb 220.353†	8305.0	7843.4	476.67 µg/L	476.67 ppb	20:40:33
1	S 181.975 Axial†	1299.5	1150.0	935.75 µg/L	935.75 ppb	20:40:33
1	Sb 206.836†	3827.9	3580.3	483.91 µg/L	483.91 ppb	20:40:33
1	Se 196.026†	1246.7	1183.4	470 µg/L	470 ppb	20:40:33
1	SiO2†	51835.7	48083.1	5234.9 µg/L	5234.9 ppb	20:40:13
1	Si 251.611†	155248.2	148043.5	2438.3 µg/L	2438.3 ppb	20:40:13
1	Sn 189.927†	7083.7	6783.8	483.93 µg/L	483.93 ppb	20:40:33
1	Ti 334.940†	505298.5	483413.9	492.29 µg/L	492.29 ppb	20:40:13
1	Tl 190.801†	3587.5	3556.9	484.85 µg/L	484.85 ppb	20:40:33
1	U 409.014†	7184.1	7361.1	484.98 µg/L	484.98 ppb	20:40:13
1	V 292.402†	93312.1	88956.4	499.59 µg/L	499.59 ppb	20:40:13
1	Zn 213.857†	80758.5	76898.2	480.22 µg/L	480.22 ppb	20:40:13
2	Sc RADIAL	157839.6	157839.6	108 %		20:39:50
2	Al 396.153Radial†	25654.3	23721.9	5156.0 µg/L	5156.0 ppb	20:39:50
2	Ca 317.933Radial†	90857.8	83284.8	4880.1 µg/L	4880.1 ppb	20:39:50
2	Fe 238.204 Radial†	79351.6	73162.6	4864.1 µg/L	4864.1 ppb	20:39:50
2	K 766.490 Radial†	14108.1	11572.9	4760.3 µg/L	4760.3 ppb	20:39:50
2	Mg 279.077 IEC†	13317.1	12110.8	5000.9 µg/L	5000.9 ppb	20:39:50
2	Na 589.592 Radial†	70889.1	63766.6	9752.9 µg/L	9752.9 ppb	20:39:50
2	Sr 421.552†	232019.8	214532.6	502.77 µg/L	502.77 ppb	20:39:48
2	Sc 361.383	1748401.5	1748401.5	104.52 %		20:40:36
2	Y 371.029	1060574.0	1060574.0	103.72 %		20:40:36
2	Ag 328.068†	128320.4	119802.8	492.33 µg/L	492.33 ppb	20:40:36
2	As 188.979†	1300.9	1258.8	533.09 µg/L	533.09 ppb	20:40:56
2	B 249.677†	33199.5	28407.7	475.25 µg/L	475.25 ppb	20:40:36
2	Ba 233.527†	113312.8	108586.5	496.46 µg/L	496.46 ppb	20:40:36
2	Be 313.107†	1626044.8	1556370.4	506.76 µg/L	506.76 ppb	20:40:36
2	Cd 226.502†	71814.6	68802.6	474.82 µg/L	474.82 ppb	20:40:36
2	Co 228.616†	36702.1	35291.2	483.50 µg/L	483.50 ppb	20:40:36
2	Cr 267.716†	59191.4	56470.8	484.90 µg/L	484.90 ppb	20:40:36
2	Cu 324.752†	120253.9	112627.4	491.11 µg/L	491.11 ppb	20:40:36
2	Mn 257.610†	372516.4	356323.3	486.68 µg/L	486.68 ppb	20:40:36
2	Mo 202.031†	15750.8	15124.7	477.88 µg/L	477.88 ppb	20:40:56
2	Ni 231.604†	39612.3	37939.8	485.29 µg/L	485.29 ppb	20:40:36
2	P 214.914†	10343.5	9816.5	2342.6 µg/L	2342.6 ppb	20:40:56
2	Pb 220.353†	8312.4	7840.4	476.48 µg/L	476.48 ppb	20:40:56

2	S 181.975 Axial†	1287.8	1137.3	925.44 µg/L	925.44 ppb	20:40:56
2	Sb 206.836†	3843.7	3590.8	485.39 µg/L	485.39 ppb	20:40:56
2	Se 196.026†	1243.8	1179.1	469 µg/L	469 ppb	20:40:56
2	SiO2†	51279.8	47488.8	5170.0 µg/L	5170.0 ppb	20:40:36
2	Si 251.611†	154265.1	146916.0	2419.7 µg/L	2419.7 ppb	20:40:36
2	Sn 189.927†	7111.0	6801.4	485.17 µg/L	485.17 ppb	20:40:56
2	Ti 334.940†	501677.3	479340.9	488.14 µg/L	488.14 ppb	20:40:36
2	Tl 190.801†	3591.8	3556.8	484.78 µg/L	484.78 ppb	20:40:56
2	U 409.014†	7373.9	7534.0	495.49 µg/L	495.49 ppb	20:40:36
2	V 292.402†	92934.7	88483.0	496.93 µg/L	496.93 ppb	20:40:36
2	Zn 213.857†	80169.9	76237.8	476.08 µg/L	476.08 ppb	20:40:36
3	Sc RADIAL	156089.6	156089.6	107 %		20:39:54
3	Al 396.153Radial†	25631.8	23966.5	5209.3 µg/L	5209.3 ppb	20:39:54
3	Ca 317.933Radial†	90218.0	83628.1	4900.2 µg/L	4900.2 ppb	20:39:54
3	Fe 238.204 Radial†	78756.2	73428.1	4881.8 µg/L	4881.8 ppb	20:39:54
3	K 766.490 Radial†	13885.5	11511.0	4734.8 µg/L	4734.8 ppb	20:39:54
3	Mg 279.077 IEC†	13155.9	12098.2	4995.8 µg/L	4995.8 ppb	20:39:54
3	Na 589.592 Radial†	70406.1	64049.4	9796.2 µg/L	9796.2 ppb	20:39:54
3	Sr 421.552†	227678.4	212880.7	498.90 µg/L	498.90 ppb	20:39:52
3	Sc 361.383	1750051.7	1750051.7	104.62 %		20:40:59
3	Y 371.029	1061656.2	1061656.2	103.82 %		20:40:59
3	Ag 328.068†	129101.5	120433.7	494.92 µg/L	494.92 ppb	20:40:59
3	As 188.979†	1318.4	1274.5	539.66 µg/L	539.66 ppb	20:41:19
3	B 249.677†	33442.7	28610.3	478.64 µg/L	478.64 ppb	20:40:59
3	Ba 233.527†	114533.5	109651.1	501.32 µg/L	501.32 ppb	20:40:59
3	Be 313.107†	1637681.6	1566026.4	509.91 µg/L	509.91 ppb	20:40:59
3	Cd 226.502†	72370.3	69269.0	478.04 µg/L	478.04 ppb	20:40:59
3	Co 228.616†	36966.6	35510.9	486.52 µg/L	486.52 ppb	20:40:59
3	Cr 267.716†	59644.0	56850.1	488.16 µg/L	488.16 ppb	20:40:59
3	Cu 324.752†	121321.2	113539.1	495.08 µg/L	495.08 ppb	20:40:59
3	Mn 257.610†	375810.6	359135.9	490.53 µg/L	490.53 ppb	20:40:59
3	Mo 202.031†	15874.8	15229.0	481.17 µg/L	481.17 ppb	20:41:19
3	Ni 231.604†	39836.0	38117.9	487.57 µg/L	487.57 ppb	20:40:59
3	P 214.914†	10423.7	9883.8	2358.6 µg/L	2358.6 ppb	20:41:19
3	Pb 220.353†	8358.7	7877.1	478.72 µg/L	478.72 ppb	20:41:19
3	S 181.975 Axial†	1303.9	1151.5	936.96 µg/L	936.96 ppb	20:41:19
3	Sb 206.836†	3860.5	3603.4	487.09 µg/L	487.09 ppb	20:41:19
3	Se 196.026†	1260.6	1194.1	474 µg/L	474 ppb	20:41:19
3	SiO2†	51807.0	47946.5	5219.9 µg/L	5219.9 ppb	20:40:59
3	Si 251.611†	155533.5	147989.2	2437.4 µg/L	2437.4 ppb	20:40:59
3	Sn 189.927†	7141.0	6823.7	486.76 µg/L	486.76 ppb	20:41:19
3	Ti 334.940†	505758.7	482789.5	491.66 µg/L	491.66 ppb	20:40:59
3	Tl 190.801†	3621.3	3581.7	488.18 µg/L	488.18 ppb	20:41:19
3	U 409.014†	7328.7	7484.2	492.60 µg/L	492.60 ppb	20:40:59
3	V 292.402†	93571.4	89007.7	499.88 µg/L	499.88 ppb	20:40:59
3	Zn 213.857†	80716.3	76687.7	478.89 µg/L	478.89 ppb	20:40:59

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1748219.0	104.51 %	0.115			0.11%
Sc RADIAL	157469.8	108 %	0.8			0.79%
Y 371.029	1060877.8	103.75 %	0.066			0.06%
Ag 328.068†	120352.8	494.58 µg/L	2.097	494.58 ppb	2.097	0.42%
QC value within limits for Ag 328.068 Recovery = 98.92%						
Al 396.153Radial†	23846.6	5183.2 µg/L	26.63	5183.2 ppb	26.63	0.51%
QC value within limits for Al 396.153Radial Recovery = 103.66%						
As 188.979†	1259.1	533.25 µg/L	6.336	533.25 ppb	6.336	1.19%
QC value within limits for As 188.979 Recovery = 106.65%						
B 249.677†	28513.2	477.02 µg/L	1.699	477.02 ppb	1.699	0.36%
QC value within limits for B 249.677 Recovery = 95.40%						
Ba 233.527†	109322.4	499.82 µg/L	2.918	499.82 ppb	2.918	0.58%
QC value within limits for Ba 233.527 Recovery = 99.96%						
Be 313.107†	1562326.2	508.70 µg/L	1.694	508.70 ppb	1.694	0.33%
QC value within limits for Be 313.107 Recovery = 101.74%						
Ca 317.933Radial†	83444.1	4889.5 µg/L	10.13	4889.5 ppb	10.13	0.21%
QC value within limits for Ca 317.933Radial Recovery = 97.79%						
Cd 226.502†	69246.9	477.89 µg/L	2.994	477.89 ppb	2.994	0.63%
QC value within limits for Cd 226.502 Recovery = 95.58%						
Co 228.616†	35434.5	485.47 µg/L	1.703	485.47 ppb	1.703	0.35%

QC value within limits for Co 228.616 Recovery = 97.09%					
Cr 267.716†	56812.2	487.84 µg/L	2.787	487.84 ppb	2.787 0.57%
QC value within limits for Cr 267.716 Recovery = 97.57%					
Cu 324.752†	113156.8	493.41 µg/L	2.057	493.41 ppb	2.057 0.42%
QC value within limits for Cu 324.752 Recovery = 98.68%					
Fe 238.204 Radial†	73309.6	4873.9 µg/L	8.98	4873.9 ppb	8.98 0.18%
QC value within limits for Fe 238.204 Radial Recovery = 97.48%					
K 766.490 Radial†	11494.3	4727.9 µg/L	36.31	4727.9 ppb	36.31 0.77%
QC value within limits for K 766.490 Radial Recovery = 94.56%					
Mg 279.077 IEC†	12150.2	5017.2 µg/L	32.78	5017.2 ppb	32.78 0.65%
QC value within limits for Mg 279.077 IEC Recovery = 100.34%					
Mn 257.610†	358271.5	489.35 µg/L	2.310	489.35 ppb	2.310 0.47%
QC value within limits for Mn 257.610 Recovery = 97.87%					
Mo 202.031†	15178.3	479.57 µg/L	1.650	479.57 ppb	1.650 0.34%
QC value within limits for Mo 202.031 Recovery = 95.91%					
Na 589.592 Radial†	63801.9	9758.3 µg/L	35.47	9758.3 ppb	35.47 0.36%
QC value within limits for Na 589.592 Radial Recovery = 97.58%					
Ni 231.604†	38055.3	486.77 µg/L	1.281	486.77 ppb	1.281 0.26%
QC value within limits for Ni 231.604 Recovery = 97.35%					
P 214.914†	9849.4	2350.4 µg/L	8.04	2350.4 ppb	8.04 0.34%
QC value within limits for P 214.914 Recovery = 94.02%					
Pb 220.353†	7853.6	477.29 µg/L	1.242	477.29 ppb	1.242 0.26%
QC value within limits for Pb 220.353 Recovery = 95.46%					
S 181.975 Axial†	1146.3	932.72 µg/L	6.328	932.72 ppb	6.328 0.68%
QC value within limits for S 181.975 Axial Recovery = 93.27%					
Sb 206.836†	3591.5	485.47 µg/L	1.590	485.47 ppb	1.590 0.33%
QC value within limits for Sb 206.836 Recovery = 97.09%					
Se 196.026†	1185.5	471 µg/L	3.0	471 ppb	3.0 0.65%
QC value within limits for Se 196.026 Recovery = 94.21%					
SiO2†	47839.5	5208.2 µg/L	33.99	5208.2 ppb	33.99 0.65%
QC value within limits for SiO2 Recovery = 97.40%					
Si 251.611†	147649.6	2431.8 µg/L	10.49	2431.8 ppb	10.49 0.43%
QC value within limits for Si 251.611 Recovery = 97.27%					
Sn 189.927†	6803.0	485.29 µg/L	1.421	485.29 ppb	1.421 0.29%
QC value within limits for Sn 189.927 Recovery = 97.06%					
Sr 421.552†	213429.2	500.18 µg/L	2.240	500.18 ppb	2.240 0.45%
QC value within limits for Sr 421.552 Recovery = 100.04%					
Ti 334.940†	481848.1	490.70 µg/L	2.236	490.70 ppb	2.236 0.46%
QC value within limits for Ti 334.940 Recovery = 98.14%					
Tl 190.801†	3565.2	485.94 µg/L	1.942	485.94 ppb	1.942 0.40%
QC value within limits for Tl 190.801 Recovery = 97.19%					
U 409.014†	7459.8	491.02 µg/L	5.432	491.02 ppb	5.432 1.11%
QC value within limits for U 409.014 Recovery = 98.20%					
V 292.402†	88815.7	498.80 µg/L	1.625	498.80 ppb	1.625 0.33%
QC value within limits for V 292.402 Recovery = 99.76%					
Zn 213.857†	76607.9	478.40 µg/L	2.115	478.40 ppb	2.115 0.44%
QC value within limits for Zn 213.857 Recovery = 95.68%					

All analyte(s) passed QC.

Sequence No.: 38

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/29/2010 20:41:27

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	159642.2	159642.2	110 %		20:41:56
1	Al 396.153Radial†	-31.9	2.8	0.5753 µg/L	0.5753 ppb	20:42:16
1	Ca 317.933Radial†	722.9	43.8	2.5682 µg/L	2.5682 ppb	20:42:16
1	Fe 238.204 Radial†	156.5	29.6	1.9698 µg/L	1.9698 ppb	20:42:16
1	K 766.490 Radial†	1376.5	-198.2	-81.588 µg/L	-81.588 ppb	20:41:56
1	Mg 279.077 IEC†	160.5	-40.1	-16.536 µg/L	-16.536 ppb	20:42:16
1	Na 589.592 Radial†	1426.6	-392.2	-59.938 µg/L	-59.938 ppb	20:41:56
1	Sr 421.552†	-236.3	62.2	0.1458 µg/L	0.1458 ppb	20:41:56
1	Sc 361.383	1761363.3	1761363.3	105.30 %		20:43:04
1	Y 371.029	1082249.7	1082249.7	105.84 %		20:43:04
1	Ag 328.068†	2961.0	-154.9	-0.6438 µg/L	-0.6438 ppb	20:43:06
1	As 188.979†	-17.6	-2.5	-1.0426 µg/L	-1.0426 ppb	20:43:26
1	B 249.677†	3116.7	-395.7	-6.6440 µg/L	-6.6440 ppb	20:43:26
1	Ba 233.527†	-177.6	6.4	0.0281 µg/L	0.0281 ppb	20:43:26
1	Be 313.107†	-787.6	-87.9	-0.0270 µg/L	-0.0270 ppb	20:43:06
1	Cd 226.502†	-97.6	1.7	0.0116 µg/L	0.0116 ppb	20:43:26
1	Co 228.616†	-177.8	7.8	0.1062 µg/L	0.1062 ppb	20:43:26
1	Cr 267.716†	140.3	-27.0	-0.2369 µg/L	-0.2369 ppb	20:43:26
1	Cu 324.752†	2779.8	215.1	0.9395 µg/L	0.9395 ppb	20:43:06
1	Mn 257.610†	177.4	88.5	0.1216 µg/L	0.1216 ppb	20:43:26
1	Mo 202.031†	-33.7	23.2	0.7311 µg/L	0.7311 ppb	20:43:26
1	Ni 231.604†	-52.7	-9.1	-0.1163 µg/L	-0.1163 ppb	20:43:26
1	P 214.914†	64.5	-18.3	-4.4052 µg/L	-4.4052 ppb	20:43:26
1	Pb 220.353†	118.6	0.2	0.0090 µg/L	0.0090 ppb	20:43:26
1	S 181.975 Axial†	91.5	-7.9	-6.4221 µg/L	-6.4221 ppb	20:43:26
1	Sb 206.836†	85.6	-5.4	-0.7134 µg/L	-0.7134 ppb	20:43:26
1	Se 196.026†	17.8	6.0	2.38 µg/L	2.38 ppb	20:43:26
1	SiO2†	1758.9	97.6	10.643 µg/L	10.643 ppb	20:43:26
1	Si 251.611†	831.5	113.3	1.8631 µg/L	1.8631 ppb	20:43:26
1	Sn 189.927†	4.0	1.8	0.1284 µg/L	0.1284 ppb	20:43:26
1	Ti 334.940†	1053.8	364.4	0.3709 µg/L	0.3709 ppb	20:43:06
1	Tl 190.801†	-105.5	20.1	2.6847 µg/L	2.6847 ppb	20:43:26
1	U 409.014†	-413.2	86.7	5.2550 µg/L	5.2550 ppb	20:43:06
1	V 292.402†	111.6	-325.8	-1.7979 µg/L	-1.7979 ppb	20:43:06
1	Zn 213.857†	508.2	18.2	0.1146 µg/L	0.1146 ppb	20:43:26
2	Sc RADIAL	156186.9	156186.9	107 %		20:42:18
2	Al 396.153Radial†	-15.2	17.7	3.8291 µg/L	3.8291 ppb	20:42:38
2	Ca 317.933Radial†	693.6	31.0	1.8191 µg/L	1.8191 ppb	20:42:38
2	Fe 238.204 Radial†	162.9	38.7	2.5747 µg/L	2.5747 ppb	20:42:38
2	K 766.490 Radial†	1472.5	-80.8	-33.270 µg/L	-33.270 ppb	20:42:18
2	Mg 279.077 IEC†	190.1	-9.2	-3.7954 µg/L	-3.7954 ppb	20:42:38
2	Na 589.592 Radial†	1486.0	-308.0	-47.099 µg/L	-47.099 ppb	20:42:18
2	Sr 421.552†	-366.4	-64.0	-0.1499 µg/L	-0.1499 ppb	20:42:18
2	Sc 361.383	1768341.2	1768341.2	105.71 %		20:43:28
2	Y 371.029	1086167.8	1086167.8	106.22 %		20:43:28
2	Ag 328.068†	2860.7	-260.9	-1.0681 µg/L	-1.0681 ppb	20:43:30
2	As 188.979†	-12.8	2.1	0.8941 µg/L	0.8941 ppb	20:43:50
2	B 249.677†	3095.0	-428.0	-7.1869 µg/L	-7.1869 ppb	20:43:50
2	Ba 233.527†	-192.4	-6.9	-0.0315 µg/L	-0.0315 ppb	20:43:50
2	Be 313.107†	-460.5	224.5	0.0719 µg/L	0.0719 ppb	20:43:30
2	Cd 226.502†	-94.7	4.9	0.0334 µg/L	0.0334 ppb	20:43:50
2	Co 228.616†	-140.7	43.5	0.5958 µg/L	0.5958 ppb	20:43:50
2	Cr 267.716†	149.4	-18.9	-0.1596 µg/L	-0.1596 ppb	20:43:50
2	Cu 324.752†	2666.0	97.1	0.4194 µg/L	0.4194 ppb	20:43:30
2	Mn 257.610†	165.4	76.4	0.1046 µg/L	0.1046 ppb	20:43:50
2	Mo 202.031†	-30.4	26.4	0.8348 µg/L	0.8348 ppb	20:43:50
2	Ni 231.604†	-24.5	17.7	0.2263 µg/L	0.2263 ppb	20:43:50
2	P 214.914†	45.9	-36.2	-8.6751 µg/L	-8.6751 ppb	20:43:50
2	Pb 220.353†	89.4	-27.9	-1.6824 µg/L	-1.6824 ppb	20:43:50

2	S 181.975 Axial†	94.2	-5.7	-4.6425 µg/L	-4.6425 ppb	20:43:50
2	Sb 206.836†	72.8	-17.8	-2.3809 µg/L	-2.3809 ppb	20:43:50
2	Se 196.026†	8.4	-3.0	-1.17 µg/L	-1.17 ppb	20:43:50
2	SiO2†	1693.5	29.1	3.1523 µg/L	3.1523 ppb	20:43:50
2	Si 251.611†	804.4	84.5	1.3841 µg/L	1.3841 ppb	20:43:50
2	Sn 189.927†	8.2	5.7	0.4069 µg/L	0.4069 ppb	20:43:50
2	Ti 334.940†	839.4	157.7	0.1627 µg/L	0.1627 ppb	20:43:30
2	Tl 190.801†	-101.0	24.8	3.3258 µg/L	3.3258 ppb	20:43:50
2	U 409.014†	-571.5	-61.5	-3.8245 µg/L	-3.8245 ppb	20:43:30
2	V 292.402†	384.6	-68.0	-0.3725 µg/L	-0.3725 ppb	20:43:30
2	Zn 213.857†	520.5	28.0	0.1740 µg/L	0.1740 ppb	20:43:50
3	Sc RADIAL	157025.4	157025.4	108 %		20:42:40
3	Al 396.153Radial†	-41.8	-6.9	-1.5626 µg/L	-1.5626 ppb	20:43:00
3	Ca 317.933Radial†	735.1	66.2	3.8771 µg/L	3.8771 ppb	20:43:00
3	Fe 238.204 Radial†	156.0	31.5	2.0942 µg/L	2.0942 ppb	20:43:00
3	K 766.490 Radial†	1504.7	-58.3	-23.989 µg/L	-23.989 ppb	20:42:40
3	Mg 279.077 IEC†	175.7	-23.6	-9.6897 µg/L	-9.6897 ppb	20:43:00
3	Na 589.592 Radial†	1490.0	-311.7	-47.668 µg/L	-47.668 ppb	20:42:40
3	Sr 421.552†	-200.3	92.1	0.2158 µg/L	0.2158 ppb	20:42:40
3	Sc 361.383	1802169.8	1802169.8	107.74 %		20:43:52
3	Y 371.029	1105477.1	1105477.1	108.11 %		20:43:52
3	Ag 328.068†	2995.0	-187.1	-0.7466 µg/L	-0.7466 ppb	20:43:54
3	As 188.979†	-15.0	0.3	0.1424 µg/L	0.1424 ppb	20:44:15
3	B 249.677†	3108.4	-470.5	-7.8995 µg/L	-7.8995 ppb	20:44:15
3	Ba 233.527†	-173.6	13.9	0.0633 µg/L	0.0633 ppb	20:44:15
3	Be 313.107†	-686.3	23.1	0.0136 µg/L	0.0136 ppb	20:43:54
3	Cd 226.502†	-87.9	12.8	0.0881 µg/L	0.0881 ppb	20:44:15
3	Co 228.616†	-169.8	19.0	0.2599 µg/L	0.2599 ppb	20:44:15
3	Cr 267.716†	170.2	-2.2	-0.0351 µg/L	-0.0351 ppb	20:44:15
3	Cu 324.752†	2724.0	103.6	0.4670 µg/L	0.4670 ppb	20:43:54
3	Mn 257.610†	180.6	87.6	0.1201 µg/L	0.1201 ppb	20:44:15
3	Mo 202.031†	-18.7	37.8	1.1943 µg/L	1.1943 ppb	20:44:15
3	Ni 231.604†	-67.6	-21.8	-0.2790 µg/L	-0.2790 ppb	20:44:15
3	P 214.914†	48.5	-34.6	-8.3057 µg/L	-8.3057 ppb	20:44:15
3	Pb 220.353†	111.7	-8.7	-0.5419 µg/L	-0.5419 ppb	20:44:15
3	S 181.975 Axial†	82.0	-18.7	-15.128 µg/L	-15.128 ppb	20:44:15
3	Sb 206.836†	86.7	-6.1	-0.8115 µg/L	-0.8115 ppb	20:44:15
3	Se 196.026†	20.9	8.5	3.37 µg/L	3.37 ppb	20:44:15
3	SiO2†	1699.8	4.9	0.5106 µg/L	0.5106 ppb	20:44:15
3	Si 251.611†	817.9	82.8	1.3569 µg/L	1.3569 ppb	20:44:15
3	Sn 189.927†	-7.0	-8.5	-0.6027 µg/L	-0.6027 ppb	20:44:15
3	Ti 334.940†	578.4	-99.5	-0.1088 µg/L	-0.1088 ppb	20:43:54
3	Tl 190.801†	-115.5	13.1	1.7476 µg/L	1.7476 ppb	20:44:15
3	U 409.014†	-166.7	324.4	19.989 µg/L	19.989 ppb	20:43:54
3	V 292.402†	270.2	-181.0	-0.9785 µg/L	-0.9785 ppb	20:43:54
3	Zn 213.857†	519.3	17.6	0.1119 µg/L	0.1119 ppb	20:44:15

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1777291.5	106.25 %	1.305			1.23%
Sc RADIAL	157618.2	108 %	1.2			1.14%
Y 371.029	1091298.2	106.72 %	1.216			1.14%
Ag 328.068†	-201.0	-0.8195 µg/L	0.22133	-0.8195 ppb	0.22133	27.01%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	4.5	0.9472 µg/L	2.71501	0.9472 ppb	2.71501	286.62%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.0	-0.0020 µg/L	0.97639	-0.0020 ppb	0.97639	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-431.4	-7.2435 µg/L	0.62967	-7.2435 ppb	0.62967	8.69%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.5	0.0200 µg/L	0.04797	0.0200 ppb	0.04797	240.04%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	53.2	0.0195 µg/L	0.04972	0.0195 ppb	0.04972	254.94%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	47.0	2.7548 µg/L	1.04159	2.7548 ppb	1.04159	37.81%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	6.5	0.0444 µg/L	0.03942	0.0444 ppb	0.03942	88.81%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	23.4	0.3206 µg/L	0.25038	0.3206 ppb	0.25038	78.09%

QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-16.1	-0.1439 µg/L	0.10181	-0.1439 ppb	0.10181 70.75%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	138.6	0.6086 µg/L	0.28751	0.6086 ppb	0.28751 47.24%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	33.3	2.2129 µg/L	0.31946	2.2129 ppb	0.31946 14.44%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	-112.4	-46.282 µg/L	30.9255	-46.282 ppb	30.9255 66.82%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	-24.3	-10.007 µg/L	6.3764	-10.007 ppb	6.3764 63.72%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	84.2	0.1154 µg/L	0.00942	0.1154 ppb	0.00942 8.16%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	29.2	0.9200 µg/L	0.24309	0.9200 ppb	0.24309 26.42%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-337.3	-51.568 µg/L	7.2542	-51.568 ppb	7.2542 14.07%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	-4.4	-0.0563 µg/L	0.25791	-0.0563 ppb	0.25791 457.85%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	-29.7	-7.1287 µg/L	2.36584	-7.1287 ppb	2.36584 33.19%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	-12.1	-0.7384 µg/L	0.86263	-0.7384 ppb	0.86263 116.82%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	-10.8	-8.7308 µg/L	5.61093	-8.7308 ppb	5.61093 64.27%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	-9.7	-1.3019 µg/L	0.93572	-1.3019 ppb	0.93572 71.87%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	3.8	1.53 µg/L	2.391	1.53 ppb	2.391 156.61%
QC value within limits for Se 196.026 Recovery = Not calculated					
SiO2†	43.9	4.7687 µg/L	5.25620	4.7687 ppb	5.25620 110.22%
QC value within limits for SiO2 Recovery = Not calculated					
Si 251.611†	93.5	1.5347 µg/L	0.28470	1.5347 ppb	0.28470 18.55%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	-0.3	-0.0225 µg/L	0.52147	-0.0225 ppb	0.52147 >999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	30.1	0.0706 µg/L	0.19411	0.0706 ppb	0.19411 275.10%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	140.8	0.1416 µg/L	0.24052	0.1416 ppb	0.24052 169.85%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	19.3	2.5860 µg/L	0.79369	2.5860 ppb	0.79369 30.69%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	116.5	7.1397 µg/L	12.01791	7.1397 ppb	12.01791 168.33%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-191.6	-1.0496 µg/L	0.71539	-1.0496 ppb	0.71539 68.16%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	21.3	0.1335 µg/L	0.03514	0.1335 ppb	0.03514 26.32%
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

ICPMS#4 - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, April 12, 2010 02:43:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\Blank.550

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		6	
B	11		ug/L		106	
Na	23		ug/L		11005	
Mg	24		ug/L		667	
Al	27		ug/L		667	
P	31		ug/L		2927	
K	39		ug/L		381369	
Ca	43		ug/L		201	
> Sc	45		ug/L		644697	
Ti	47		ug/L		173	
V	51		ug/L		20411	
Cr	52		ug/L		-11274	
Cr	53		ug/L		126123	
Mn	55		ug/L		733	
Fe	57		ug/L		5468	
Co	59		ug/L		148	
Ni	60		ug/L		69	
Cu	63		ug/L		2622	
Cu	65		ug/L		1333	
Zn	66		ug/L		1259	
Zn	67		ug/L		7250	
Zn	68		ug/L		1418	
> Ge	74		ug/L		260111	
As	75		ug/L		74	
Se	77		ug/L		5357	
Se	82		ug/L		30	
Kr	83		ug/L		58	
Sr	88		ug/L		181	
Y	89		ug/L		25	
Zr	90		ug/L		545	
Mo	98		ug/L		492	
Ag	107		ug/L		176	
Cd	111		ug/L		22	
Cd	114		ug/L		34	
> In	115		ug/L		163380	
Sn	120		ug/L		1034	
Sb	121		ug/L		688	
Sb	123		ug/L		540	
Ba	135		ug/L		22	
Ba	137		ug/L		31	
Ho	165		ug/L		10	
> Lu	175		ug/L		193728	
Tl	205		ug/L		1200	
Pb	208		ug/L		4306	
Th	232		ug/L		1376	
U	238		ug/L		597	

Sample ID: Blank

Report Date/Time: Monday, April 12, 2010 02:46:20

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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	0.9999
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	0.9998
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	0.9998
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: Blank

Report Date/Time: Monday, April 12, 2010 02:46:20

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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 02:49:43

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\Standard 1.551

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
|	Li 7	10.000	ug/L	3.051	5935	0.009
|	Be 9	10.000	ug/L	4.857	1595	0.002
|	B 11	20.000	ug/L	1.032	2923	0.004
|	Na 23	1000.000	ug/L	1.999	1740656	2.642
|	Mg 24	1000.000	ug/L	8.623	1174149	1.795
|	Al 27	1000.000	ug/L	3.071	1820390	2.781
|	P 31	1000.000	ug/L	3.608	101079	0.150
|	K 39	1000.000	ug/L	1.998	3185175	4.275
|	Ca 43	1000.000	ug/L	4.116	6423	0.010
>	Sc 45		ug/L		654559	654559.347
|	Ti 47	10.000	ug/L	4.296	3283	0.005
|	V 51	10.000	ug/L	12.650	56767	0.055
|	Cr 52	10.000	ug/L	3.946	19505	0.047
|	Cr 53		ug/L		128000	-0.000
|	Mn 55	10.000	ug/L	2.286	52707	0.079
|	Fe 57	1000.000	ug/L	2.969	111440	0.162
|	Co 59	10.000	ug/L	1.793	40361	0.061
|	Ni 60	10.000	ug/L	1.788	8627	0.013
|	Cu 63		ug/L		22243	0.030
|	Cu 65	10.000	ug/L	2.163	10815	0.014
|	Zn 66	10.000	ug/L	2.423	6694	0.021
|	Zn 67		ug/L		8080	0.003
|	Zn 68		ug/L		5377	0.015
>	Ge 74		ug/L		261149	261148.613
|	As 75	10.000	ug/L	8.084	6208	0.023
|	Se 77		ug/L		5552	0.001
|	Se 82	10.000	ug/L	8.766	527	0.002
|	Kr 83		ug/L		47	-0.000
|	Sr 88	10.000	ug/L	1.355	90477	0.544
|	Y 89		ug/L		27	0.000
|	Zr 90	10.000	ug/L	2.578	48629	0.289
|	Mo 98	10.000	ug/L	1.619	21857	0.129
|	Ag 107	10.000	ug/L	1.159	34952	0.209
|	Cd 111	10.000	ug/L	2.337	8067	0.048
|	Cd 114		ug/L		18844	0.113
>	In 115		ug/L		166132	166132.045
|	Sn 120	10.000	ug/L	2.971	36935	0.216
|	Sb 121	10.000	ug/L	14.028	20495	0.119
|	Sb 123		ug/L		15889	0.092
|	Ba 135		ug/L		8654	0.044
|	Ba 137	10.000	ug/L	1.519	14860	0.076
|	Ho 165		ug/L		8	-0.000
>	Lu 175		ug/L		194979	194978.643
|	Tl 205	10.000	ug/L	2.570	54419	0.273
|	Pb 208	10.000	ug/L	1.852	108675	0.535
|	Th 232	10.000	ug/L	5.297	98720	0.499
|	U 238	10.000	ug/L	2.487	102344	0.522

Sample ID: Standard 1

Report Date/Time: Monday, April 12, 2010 02:52:26

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				
|	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 2

Sample Date/Time: Monday, April 12, 2010 02:55:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\Standard 2.552

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	100.043	ug/L	0.439	60123	0.094
Be	9	100.016	ug/L	1.767	15735	0.025
B	11	199.993	ug/L	2.069	27415	0.043
Na	23	9998.559	ug/L	6.984	16606589	26.045
Mg	24	10004.944	ug/L	7.452	12030390	18.889
Al	27	9994.146	ug/L	1.375	16728759	26.256
P	31	10002.874	ug/L	2.950	986658	1.544
K	39	10006.213	ug/L	7.965	29441031	45.615
Ca	43	10001.291	ug/L	1.812	61554	0.096
> Sc	45		ug/L		637156	637156.287
Ti	47	100.044	ug/L	2.048	31837	0.050
V	51	100.133	ug/L	3.174	425762	0.637
Cr	52	100.017	ug/L	2.105	295563	0.481
Cr	53		ug/L		135025	0.016
Mn	55	100.009	ug/L	0.471	511300	0.801
Fe	57	10000.551	ug/L	0.519	1042145	1.627
Co	59	100.006	ug/L	1.581	393820	0.618
Ni	60	100.008	ug/L	1.618	84080	0.132
Cu	63		ug/L		195407	0.303
Cu	65	100.012	ug/L	1.779	94538	0.146
Zn	66	100.038	ug/L	2.481	56600	0.216
Zn	67		ug/L		14629	0.029
Zn	68		ug/L		40772	0.154
> Ge	74		ug/L		256004	256003.543
As	75	100.077	ug/L	0.819	65273	0.255
Se	77		ug/L		8097	0.011
Se	82	100.192	ug/L	4.627	6065	0.024
Kr	83		ug/L		51	-0.000
Sr	88	100.039	ug/L	0.725	904536	5.660
Y	89		ug/L		111	0.001
Zr	90	100.062	ug/L	1.418	493543	3.086
Mo	98	100.050	ug/L	2.085	216739	1.354
Ag	107	100.018	ug/L	1.016	340746	2.132
Cd	111	100.046	ug/L	1.329	81144	0.508
Cd	114		ug/L		190957	1.195
> In	115		ug/L		159787	159786.951
Sn	120	100.038	ug/L	2.506	359769	2.245
Sb	121	100.233	ug/L	9.698	249424	1.557
Sb	123		ug/L		191456	1.195
Ba	135		ug/L		86191	0.451
Ba	137	100.034	ug/L	1.151	150414	0.787
Ho	165		ug/L		12	0.000
> Lu	175		ug/L		190991	190990.522
Tl	205	100.015	ug/L	1.434	530708	2.772
Pb	208	100.000	ug/L	1.919	1026701	5.354
Th	232	100.079	ug/L	0.786	1037671	5.426
U	238	100.010	ug/L	1.602	1007913	5.275

Sample ID: Standard 2

Report Date/Time: Monday, April 12, 2010 02:58:32

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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	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: Standard 2

Report Date/Time: Monday, April 12, 2010 02:58:32

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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

Sample ID: Standard 2

Report Date/Time: Monday, April 12, 2010 02:58:32

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ICPMS#4 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, April 12, 2010 03:01:55

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 1.553

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	52.295 ug/L	1.620	31254	0.049
|	Be	9	51.774 ug/L	1.574	8100	0.013
|	B	11	104.630 ug/L	4.252	14304	0.022
|	Na	23	5284.399 ug/L	1.908	8728570	13.765
|	Mg	24	5032.256 ug/L	2.318	6019199	9.500
|	Al	27	5458.305 ug/L	5.797	9080269	14.340
|	P	31	5042.371 ug/L	1.568	495924	0.778
|	K	39	4840.904 ug/L	7.678	14347844	22.068
|	Ca	43	4938.767 ug/L	0.125	30322	0.048
>	Sc	45	ug/L		633444	633444.181
|	Ti	47	50.496 ug/L	0.981	16061	0.025
|	V	51	52.167 ug/L	3.233	230100	0.332
|	Cr	52	52.279 ug/L	1.755	148300	0.252
|	Cr	53	ug/L		118451	-0.009
|	Mn	55	53.290 ug/L	1.211	271172	0.427
|	Fe	57	5007.240 ug/L	2.835	521311	0.815
|	Co	59	51.068 ug/L	2.686	199962	0.316
|	Ni	60	53.284 ug/L	1.085	44568	0.070
|	Cu	63	ug/L		103227	0.159
[	Cu	65	51.977 ug/L	1.526	49475	0.076
|	Zn	66	50.976 ug/L	1.360	29850	0.110
|	Zn	67	ug/L		10442	0.012
|	Zn	68	ug/L		22024	0.079
>	Ge	74	ug/L		259504	259503.868
|	As	75	51.099 ug/L	1.198	33820	0.130
|	Se	77	ug/L		6231	0.003
|	Se	82	52.015 ug/L	5.531	3207	0.012
[	Kr	83	ug/L		56	-0.000
|	Sr	88	50.999 ug/L	0.504	466334	2.885
|	Y	89	ug/L		39	0.000
|	Zr	90	49.508 ug/L	2.996	247116	1.527
|	Mo	98	50.341 ug/L	2.496	110503	0.681
|	Ag	107	51.627 ug/L	2.782	177887	1.100
|	Cd	111	51.230 ug/L	2.371	42017	0.260
|	Cd	114	ug/L		98373	0.609
>	In	115	ug/L		161562	161562.371
|	Sn	120	50.250 ug/L	2.579	183203	1.128
|	Sb	121	62.455 ug/L	3.564	157343	0.970
[	Sb	123	ug/L		121103	0.746
|	Ba	135	ug/L		43786	0.227
|	Ba	137	49.487 ug/L	1.900	75116	0.390
|	Ho	165	ug/L		15	0.000
>	Lu	175	ug/L		192786	192785.530
|	Tl	205	49.958 ug/L	1.568	268133	1.385
|	Pb	208	51.312 ug/L	2.257	533798	2.747
|	Th	232	50.861 ug/L	1.455	532958	2.758
[	U	238	53.818 ug/L	2.203	547709	2.838

Sample ID: QC Std 1

Report Date/Time: Monday, April 12, 2010 03:04:38

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	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: QC Std 1

Report Date/Time: Monday, April 12, 2010 03:04:38

Page 2

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	104.590				
Be	9	103.549				
B	11	104.630				
Na	23	105.688				
Mg	24	100.645				
Al	27	108.085				
P	31	100.847				
K	39	96.818				
Ca	43	98.775				
> Sc	45		98.3			
Ti	47	100.991				
V	51	104.333				
Cr	52	104.558				
Cr	53					
Mn	55	106.580				
Fe	57	100.145				
Co	59	102.135				
Ni	60	106.568				
Cu	63					
Cu	65	103.953				
Zn	66	101.952				
Zn	67					
Zn	68					
> Ge	74		99.8			
As	75	102.199				
Se	77					
Se	82	104.030				
Kr	83					
Sr	88	101.997				
Y	89					
Zr	90	99.015				
Mo	98	100.683				
Ag	107	103.254				
Cd	111	102.461				
Cd	114					
> In	115		98.9			
Sn	120	100.500				
Sb	121	124.909				
Sb	123					
Ba	135					
Ba	137	98.975				
Ho	165					
> Lu	175		99.5			
Tl	205	99.915				
Pb	208	102.623				
Th	232	101.722				
U	238	107.636				

QC Out Of Limits

Measurement Type Analyte MassOut 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 03:08:04

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 2.554

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.030	ug/L	9.690	48	0.000
Be	9	0.013	ug/L	29.920	8	0.000
B	11	1.862	ug/L	15.533	362	0.000
Na	23	-1.575	ug/L	79.664	8336	-0.004
Mg	24	1.650	ug/L	29.230	2667	0.003
Al	27	2.571	ug/L	80.004	5001	0.007
P	31	6.300	ug/L	13.671	3545	0.001
K	39	-4.920	ug/L	149.211	365972	-0.022
Ca	43	1.480	ug/L	96.252	209	0.000
> Sc	45		ug/L		643091	643091.349
Ti	47	0.043	ug/L	212.623	186	0.000
V	51	-1.289	ug/L	31.094	15092	-0.008
Cr	52	0.008	ug/L	482.794	-11219	0.000
Cr	53		ug/L		122896	-0.005
Mn	55	-0.001	ug/L	496.489	724	-0.000
Fe	57	2.296	ug/L	85.205	5695	0.000
Co	59	0.008	ug/L	32.969	179	0.000
Ni	60	0.012	ug/L	117.899	80	0.000
Cu	63		ug/L		2753	0.000
Cu	65	-0.063	ug/L	153.288	1271	-0.000
Zn	66	-0.055	ug/L	37.738	1230	-0.000
Zn	67		ug/L		7100	-0.001
Zn	68		ug/L		1455	0.000
> Ge	74		ug/L		260464	260464.089
As	75	0.142	ug/L	195.892	167	0.000
Se	77		ug/L		5206	-0.001
Se	82	1.677	ug/L	19.930	133	0.000
Kr	83		ug/L		52	-0.000
Sr	88	0.010	ug/L	42.279	273	0.001
Y	89		ug/L		21	-0.000
Zr	90	0.234	ug/L	15.682	1714	0.007
Mo	98	0.505	ug/L	12.312	1599	0.007
Ag	107	0.068	ug/L	16.945	412	0.001
Cd	111	0.002	ug/L	813.349	23	0.000
Cd	114		ug/L		79	0.000
> In	115		ug/L		162474	162473.993
Sn	120	0.143	ug/L	9.388	1549	0.003
Sb	121	2.377	ug/L	15.275	6684	0.037
Sb	123		ug/L		5197	0.029
Ba	135		ug/L		29	0.000
Ba	137	0.013	ug/L	39.855	50	0.000
Ho	165		ug/L		8	-0.000
> Lu	175		ug/L		193703	193703.050
Tl	205	0.252	ug/L	31.990	2554	0.007
Pb	208	0.014	ug/L	65.656	4455	0.001
Th	232	0.382	ug/L	23.171	5390	0.021
U	238	0.022	ug/L	58.185	824	0.001

Sample ID: QC Std 2

Report Date/Time: Monday, April 12, 2010 03:10:49

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	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: QC Std 2

Report Date/Time: Monday, April 12, 2010 03:10:49

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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		99.8			
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		100.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		99.4			
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	Mass Out of Limits Message
QC Std 2	Mo	98ICB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

Sample ID: QC Std 2

Report Date/Time: Monday, April 12, 2010 03:10:49

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ICPMS#4 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, April 12, 2010 03:14:14

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 3.555

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	12.092	ug/L	3.179	7134	0.011
Be	9	0.545	ug/L	10.831	89	0.000
B	11	17.874	ug/L	0.561	2490	0.004
Na	23	324.310	ug/L	14.215	537027	0.845
Mg	24	17.318	ug/L	17.973	21016	0.033
Al	27	35.927	ug/L	13.072	59458	0.094
P	31	54.701	ug/L	4.501	8094	0.008
K	39	351.702	ug/L	7.260	1367941	1.603
Ca	43	237.508	ug/L	3.197	1619	0.002
> Sc	45		ug/L		623258	623258.014
Ti	47	9.676	ug/L	2.209	3163	0.005
V	51	10.385	ug/L	4.501	60883	0.066
Cr	52	12.481	ug/L	0.723	26545	0.060
Cr	53		ug/L		104248	-0.028
Mn	55	6.177	ug/L	1.561	31559	0.049
Fe	57	117.906	ug/L	1.785	17243	0.019
Co	59	1.190	ug/L	2.162	4724	0.007
Ni	60	2.424	ug/L	2.223	2059	0.003
Cu	63		ug/L		4310	0.003
Cu	65	0.920	ug/L	13.308	2128	0.001
Zn	66	13.387	ug/L	0.745	8577	0.029
Zn	67		ug/L		6860	-0.001
Zn	68		ug/L		6551	0.020
> Ge	74		ug/L		253903	253902.525
As	75	5.344	ug/L	14.596	3530	0.014
Se	77		ug/L		4054	-0.005
Se	82	4.843	ug/L	14.657	319	0.001
Kr	83		ug/L		47	-0.000
Sr	88	11.935	ug/L	0.956	107622	0.675
Y	89		ug/L		19	-0.000
Zr	90	2.138	ug/L	3.509	11021	0.066
Mo	98	0.648	ug/L	3.093	1874	0.009
Ag	107	1.058	ug/L	3.086	3758	0.023
Cd	111	1.190	ug/L	4.891	983	0.006
Cd	114		ug/L		2316	0.014
> In	115		ug/L		159116	159116.444
Sn	120	5.660	ug/L	0.405	21221	0.127
Sb	121	2.646	ug/L	7.952	7208	0.041
Sb	123		ug/L		5584	0.032
Ba	135		ug/L		1967	0.010
Ba	137	2.325	ug/L	1.416	3453	0.018
Ho	165		ug/L		9	-0.000
> Lu	175		ug/L		187029	187029.060
Tl	205	1.143	ug/L	2.392	7085	0.032
Pb	208	2.316	ug/L	1.549	27345	0.124
Th	232	1.141	ug/L	2.913	12905	0.062
U	238	0.290	ug/L	2.865	3435	0.015

Sample ID: QC Std 3

Report Date/Time: Monday, April 12, 2010 03:16:57

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	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: QC Std 3

Report Date/Time: Monday, April 12, 2010 03:16:57

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QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	120.918				
Be	9	108.989				
B	11	119.160				
Na	23	129.724				
Mg	24	115.455				
Al	27	119.757				
P	31	109.402				
K	39	117.234				
Ca	43	118.754				
> Sc	45		96.7			
Ti	47	96.756				
V	51	103.849				
Cr	52	124.814				
Cr	53					
Mn	55	123.546				
Fe	57	117.906				
Co	59	118.979				
Ni	60	121.205				
Cu	63					
Cu	65	91.982				
Zn	66	133.866				
Zn	67					
Zn	68					
> Ge	74		97.6			
As	75	106.888				
Se	77					
Se	82	96.865				
Kr	83					
Sr	88	119.347				
Y	89					
Zr	90	106.915				
Mo	98	129.619				
Ag	107	105.774				
Cd	111	119.030				
Cd	114					
> In	115		97.4			
Sn	120	113.206				
Sb	121	88.208				
Sb	123					
Ba	135					
Ba	137	116.245				
Ho	165					
> Lu	175		96.5			
Tl	205	114.348				
Pb	208	115.800				
Th	232	114.134				
U	238	144.898				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 3	Zn	66CRDL is out of limits
QC Std 3	U	238CRDL is out of limits

QC Action

QC Action Line: Continue

Sample ID: QC Std 3

Report Date/Time: Monday, April 12, 2010 03:16:57

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ICPMS#4 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, April 12, 2010 03:20:21

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 4.556

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
|	Li	7	0.104	ug/L	43.708	92	0.000
|	Be	9	0.135	ug/L	19.636	27	0.000
|	B	11	1.106	ug/L	15.745	256	0.000
|	Na	23	96448.705	ug/L	4.239	160325276	251.232
|	Mg	24	93854.896	ug/L	2.143	113091539	177.190
|	Al	27	92569.880	ug/L	2.132	155212821	243.196
|	P	31	89883.826	ug/L	3.067	8857623	13.877
|	K	39	92229.964	ug/L	2.230	268695995	420.444
|	Ca	43	94558.095	ug/L	3.448	581225	0.911
>	Sc	45		ug/L		638350	638349.584
|	Ti	47	1564.928	ug/L	1.470	496414	0.778
|	V	51	-1.084	ug/L	117.800	15753	-0.007
|	Cr	52	2.343	ug/L	0.348	-3962	0.011
|	Cr	53		ug/L		116150	-0.014
|	Mn	55	5.810	ug/L	1.855	30437	0.047
|	Fe	57	96382.179	ug/L	3.090	10012270	15.682
|	Co	59	0.221	ug/L	5.806	1017	0.001
|	Ni	60	3.297	ug/L	5.866	2841	0.004
|	Cu	63		ug/L		8204	0.009
|	Cu	65	3.191	ug/L	5.911	4298	0.005
|	Zn	66	5.452	ug/L	2.046	4245	0.012
|	Zn	67		ug/L		8283	0.005
|	Zn	68		ug/L		2553	0.005
>	Ge	74		ug/L		255306	255305.878
|	As	75	0.972	ug/L	82.383	702	0.002
|	Se	77		ug/L		6317	0.004
|	Se	82	0.600	ug/L	102.228	66	0.000
|	Kr	83		ug/L		147	0.000
|	Sr	88	2.893	ug/L	2.580	25999	0.164
|	Y	89		ug/L		257	0.001
|	Zr	90	0.867	ug/L	40.756	4753	0.027
|	Mo	98	2048.514	ug/L	1.785	4373026	27.713
|	Ag	107	0.106	ug/L	6.000	528	0.002
|	Cd	111	0.235	ug/L	75.167	209	0.001
|	Cd	114		ug/L		4885	0.031
>	In	115		ug/L		157776	157776.284
|	Sn	120	1.185	ug/L	3.018	5192	0.027
|	Sb	121	1.543	ug/L	25.456	4449	0.024
|	Sb	123		ug/L		3493	0.019
|	Ba	135		ug/L		664	0.003
|	Ba	137	0.686	ug/L	5.219	1080	0.005
|	Ho	165		ug/L		3895	0.020
>	Lu	175		ug/L		194389	194388.596
|	Tl	205	-0.037	ug/L	20.758	1004	-0.001
|	Pb	208	0.207	ug/L	4.496	6476	0.011
|	Th	232	0.390	ug/L	37.137	5482	0.021
	U	238	-0.024	ug/L	106.922	356	-0.001

Sample ID: QC Std 4

Report Date/Time: Monday, April 12, 2010 03:23:05

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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	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: QC Std 4

Report Date/Time: Monday, April 12, 2010 03:23:05

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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	96.449				
|	Mg	24	93.855				
|	Al	27	92.570				
|	P	31	89.884				
|	K	39	92.230				
|	Ca	43	94.558				
>	Sc	45		99.0			
|	Ti	47	78.246				
|	V	51					
|	Cr	52	71.012				
|	Cr	53					
|	Mn	55	100.174				
|	Fe	57	96.382				
|	Co	59	94.057				
|	Ni	60	99.597				
|	Cu	63					
|	Cu	65	95.541				
|	Zn	66	145.012				
|	Zn	67					
|	Zn	68					
>	Ge	74		98.2			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88	97.750				
|	Y	89					
|	Zr	90					
|	Mo	98	102.426				
|	Ag	107					
|	Cd	111	52.946				
|	Cd	114					
>	In	115		96.6			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137	85.906				
|	Ho	165					
>	Lu	175		100.3			
|	Tl	205					
|	Pb	208	109.531				
|	Th	232					
|	U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 4	Ti	47ICSA is out of limits

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, April 12, 2010 03:26:29

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 5.557

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	17.926 ug/L	0.270	10900	0.017
|	Be	9	17.899 ug/L	1.814	2847	0.004
|	B	11	17.969 ug/L	2.873	2582	0.004
|	Na	23	99229.137 ug/L	1.560	166286490	258.475
|	Mg	24	91729.458 ug/L	2.978	111383208	173.178
|	Al	27	90157.485 ug/L	4.608	152298026	236.858
|	P	31	90232.131 ug/L	1.578	8962661	13.930
|	K	39	100068.116 ug/L	5.956	293664971	456.176
|	Ca	43	94672.344 ug/L	1.747	586606	0.912
>	Sc	45	ug/L		643236	643235.606
|	Ti	47	1597.247 ug/L	2.850	510537	0.794
|	V	51	18.667 ug/L	6.453	96664	0.119
|	Cr	52	21.852 ug/L	3.906	56392	0.105
|	Cr	53	ug/L		125355	-0.001
|	Mn	55	25.389 ug/L	0.905	131579	0.203
|	Fe	57	97420.346 ug/L	1.310	10200950	15.851
|	Co	59	19.164 ug/L	2.849	76290	0.118
|	Ni	60	22.085 ug/L	1.833	18797	0.029
|	Cu	63	ug/L		44508	0.065
[	Cu	65	21.985 ug/L	1.043	22019	0.032
|	Zn	66	22.617 ug/L	2.452	13997	0.049
|	Zn	67	ug/L		10070	0.011
|	Zn	68	ug/L		9469	0.031
>	Ge	74	ug/L		260493	260493.142
|	As	75	19.783 ug/L	6.566	13191	0.050
|	Se	77	ug/L		7667	0.009
|	Se	82	20.733 ug/L	4.100	1301	0.005
[	Kr	83	ug/L		143	0.000
|	Sr	88	23.013 ug/L	1.357	211807	1.302
|	Y	89	ug/L		273	0.002
|	Zr	90	20.009 ug/L	3.040	100805	0.617
|	Mo	98	2044.049 ug/L	4.536	4493389	27.653
|	Ag	107	18.872 ug/L	2.287	65541	0.402
|	Cd	111	18.952 ug/L	4.475	15648	0.096
|	Cd	114	ug/L		40425	0.249
>	In	115	ug/L		162558	162558.022
|	Sn	120	19.777 ug/L	2.159	73169	0.444
|	Sb	121	21.342 ug/L	6.872	54535	0.331
[	Sb	123	ug/L		42004	0.255
|	Ba	135	ug/L		17393	0.089
|	Ba	137	19.595 ug/L	1.396	30272	0.154
|	Ho	165	ug/L		4037	0.021
>	Lu	175	ug/L		196073	196073.033
|	Tl	205	17.701 ug/L	0.937	97424	0.491
|	Pb	208	18.513 ug/L	0.697	198700	0.991
|	Th	232	19.059 ug/L	0.712	204004	1.033
[U	238	19.999 ug/L	1.272	207403	1.055

Sample ID: QC Std 5

Report Date/Time: Monday, April 12, 2010 03:29:13

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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	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

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	89.631				
Be	9	89.497				
B	11	89.847				
Na	23	99.229				
Mg	24	91.729				
Al	27	90.157				
P	31	90.232				
K	39	100.068				
Ca	43	94.672				
> Sc	45		99.8			
Ti	47	79.862				
V	51	93.335				
Cr	52	93.785				
Cr	53					
Mn	55	98.407				
Fe	57	97.420				
Co	59	94.706				
Ni	60	94.744				
Cu	63					
Cu	65	94.195				
Zn	66	95.189				
Zn	67					
Zn	68					
> Ge	74		100.1			
As	75	98.914				
Se	77					
Se	82	103.665				
Kr	83					
Sr	88	100.232				
Y	89					
Zr	90	100.046				
Mo	98	102.202				
Ag	107	94.361				
Cd	111	92.703				
Cd	114					
> In	115		99.5			
Sn	120	98.884				
Sb	121	106.710				
Sb	123					
Ba	135					
Ba	137	94.214				
Ho	165					
> Lu	175		101.2			
Tl	205	88.504				
Pb	208	91.698				
Th	232	95.296				
U	238	99.993				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 5	Ti	47ICSAB is out of limits

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 12, 2010 03:32:38

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 6.558

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	49.592	ug/L	1.555	30626	0.047
Be	9	49.022	ug/L	3.029	7924	0.012
B	11	98.787	ug/L	3.018	13962	0.021
Na	23	5255.300	ug/L	3.106	8971235	13.689
Mg	24	5073.394	ug/L	4.907	6267441	9.578
Al	27	5051.226	ug/L	2.011	8684608	13.270
P	31	4917.974	ug/L	1.255	499825	0.759
K	39	4861.454	ug/L	1.967	14889382	22.162
Ca	43	4848.567	ug/L	1.604	30757	0.047
> Sc	45		ug/L		654444	654443.829
Ti	47	52.142	ug/L	2.541	17127	0.026
V	51	50.453	ug/L	4.440	230632	0.321
Cr	52	52.131	ug/L	0.590	152781	0.251
Cr	53		ug/L		121797	-0.009
Mn	55	52.888	ug/L	1.546	278063	0.424
Fe	57	5088.821	ug/L	2.129	547355	0.828
Co	59	51.613	ug/L	1.504	208834	0.319
Ni	60	53.706	ug/L	0.959	46411	0.071
Cu	63		ug/L		109089	0.163
Cu	65	53.858	ug/L	1.179	52919	0.079
Zn	66	51.795	ug/L	2.776	31630	0.112
Zn	67		ug/L		10913	0.012
Zn	68		ug/L		23355	0.081
> Ge	74		ug/L		270833	270832.765
As	75	50.293	ug/L	0.456	34740	0.128
Se	77		ug/L		6844	0.005
Se	82	49.302	ug/L	2.574	3173	0.012
Kr	83		ug/L		53	-0.000
Sr	88	50.962	ug/L	1.769	479052	2.883
Y	89		ug/L		42	0.000
Zr	90	49.253	ug/L	2.767	252772	1.519
Mo	98	52.057	ug/L	3.849	117441	0.704
Ag	107	51.732	ug/L	0.923	183305	1.102
Cd	111	50.831	ug/L	2.368	42864	0.258
Cd	114		ug/L		100731	0.606
> In	115		ug/L		166118	166118.400
Sn	120	49.632	ug/L	1.852	186070	1.114
Sb	121	57.383	ug/L	4.521	148680	0.891
Sb	123		ug/L		114475	0.686
Ba	135		ug/L		44954	0.232
Ba	137	50.492	ug/L	1.834	76960	0.397
Ho	165		ug/L		14	0.000
> Lu	175		ug/L		193577	193577.415
Tl	205	50.309	ug/L	1.524	271126	1.395
Pb	208	51.343	ug/L	1.547	536368	2.749
Th	232	50.726	ug/L	1.060	533760	2.750
U	238	54.028	ug/L	1.100	552171	2.849

Sample ID: QC Std 6

Report Date/Time: Monday, April 12, 2010 03:35:22

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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	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: QC Std 6

Report Date/Time: Monday, April 12, 2010 03:35:22

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QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	99.185				
Be	9	98.044				
B	11	98.787				
Na	23	105.106				
Mg	24	101.468				
Al	27	100.024				
P	31	98.359				
K	39	97.229				
Ca	43	96.971				
> Sc	45		101.5			
Ti	47	104.284				
V	51	100.907				
Cr	52	104.262				
Cr	53					
Mn	55	105.776				
Fe	57	101.776				
Co	59	103.227				
Ni	60	107.412				
Cu	63					
Cu	65	107.716				
Zn	66	103.590				
Zn	67					
Zn	68					
> Ge	74		104.1			
As	75	100.585				
Se	77					
Se	82	98.604				
Kr	83					
Sr	88	101.924				
Y	89					
Zr	90	98.506				
Mo	98	104.115				
Ag	107	103.463				
Cd	111	101.662				
Cd	114					
> In	115		101.7			
Sn	120	99.265				
Sb	121	114.766				
Sb	123					
Ba	135					
Ba	137	100.985				
Ho	165					
> Lu	175		99.9			
Tl	205	100.617				
Pb	208	102.686				
Th	232	101.453				
U	238	108.056				

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 03:38:48

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 7.559

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.061	ug/L	9.246	68	0.000
Be	9	0.015	ug/L	95.491	8	0.000
B	11	1.025	ug/L	31.807	255	0.000
Na	23	4.830	ug/L	34.168	19680	0.013
Mg	24	3.971	ug/L	94.869	5668	0.007
Al	27	4.002	ug/L	35.500	7669	0.011
P	31	7.560	ug/L	27.925	3786	0.001
K	39	-3.637	ug/L	156.122	381367	-0.017
Ca	43	9.657	ug/L	71.987	268	0.000
> Sc	45		ug/L		663073	663072.553
Ti	47	0.584	ug/L	6.487	370	0.000
V	51	-1.081	ug/L	164.553	16380	-0.007
Cr	52	0.242	ug/L	42.570	-10822	0.001
Cr	53		ug/L		123785	-0.009
Mn	55	0.001	ug/L	333.696	761	0.000
Fe	57	6.068	ug/L	23.706	6279	0.001
Co	59	0.008	ug/L	91.430	186	0.000
Ni	60	0.007	ug/L	202.126	77	0.000
Cu	63		ug/L		2695	-0.000
Cu	65	-0.028	ug/L	99.092	1344	-0.000
Zn	66	-0.410	ug/L	23.152	1059	-0.001
Zn	67		ug/L		7077	-0.001
Zn	68		ug/L		1239	-0.001
> Ge	74		ug/L		267568	267567.613
As	75	1.207	ug/L	49.169	899	0.003
Se	77		ug/L		5882	0.001
Se	82	0.805	ug/L	41.251	82	0.000
Kr	83		ug/L		58	-0.000
Sr	88	0.009	ug/L	25.050	263	0.000
Y	89		ug/L		19	-0.000
Zr	90	0.134	ug/L	20.539	1222	0.004
Mo	98	0.646	ug/L	11.800	1925	0.009
Ag	107	0.043	ug/L	27.991	327	0.001
Cd	111	-0.006	ug/L	114.590	17	-0.000
Cd	114		ug/L		56	0.000
> In	115		ug/L		164037	164036.764
Sn	120	0.097	ug/L	8.909	1393	0.002
Sb	121	1.242	ug/L	18.014	3850	0.019
Sb	123		ug/L		3075	0.015
Ba	135		ug/L		32	0.000
Ba	137	0.010	ug/L	85.996	47	0.000
Ho	165		ug/L		10	-0.000
> Lu	175		ug/L		196361	196360.616
Tl	205	0.124	ug/L	26.657	1893	0.003
Pb	208	0.034	ug/L	22.706	4727	0.002
Th	232	0.203	ug/L	26.757	3559	0.011
U	238	0.033	ug/L	44.914	948	0.002

Sample ID: QC Std 7

Report Date/Time: Monday, April 12, 2010 03:41:33

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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	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

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			102.9		
|	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			100.4		
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175			101.4		
|	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

Sample ID: QC Std 7

Report Date/Time: Monday, April 12, 2010 03:41:33

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ICPMS#4 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Monday, April 12, 2010 03:44:57

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 10.560

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	927.313	ug/L	1.278	557826	0.874
Be	9	922.146	ug/L	1.775	145235	0.228
B	11	0.474	ug/L	11.019	169	0.000
Na	23	51598.467	ug/L	5.107	85810104	134.405
Mg	24	46808.744	ug/L	6.066	56374936	88.371
Al	27	48162.212	ug/L	6.150	80703380	126.530
P	31	23434.550	ug/L	2.523	2311066	3.618
K	39	47071.099	ug/L	3.449	137329368	214.581
Ca	43	48493.935	ug/L	1.746	298119	0.467
> Sc	45		ug/L		638102	638101.544
Ti	47	36.866	ug/L	0.561	11859	0.018
V	51	972.502	ug/L	2.292	3965163	6.183
Cr	52	956.697	ug/L	1.815	2926937	4.605
Cr	53		ug/L		469482	0.540
Mn	55	953.528	ug/L	1.124	4875974	7.640
Fe	57	48463.500	ug/L	1.786	5036258	7.885
Co	59	932.764	ug/L	2.441	3677005	5.763
Ni	60	926.039	ug/L	2.526	779053	1.221
Cu	63		ug/L		1762631	2.758
Cu	65	919.747	ug/L	0.637	859933	1.346
Zn	66	2150.083	ug/L	2.282	1196250	4.648
Zn	67		ug/L		197960	0.742
Zn	68		ug/L		860229	3.340
> Ge	74		ug/L		257165	257165.003
As	75	928.629	ug/L	0.652	607780	2.363
Se	77		ug/L		27289	0.086
Se	82	487.321	ug/L	0.379	29518	0.115
Kr	83		ug/L		85	0.000
Sr	88	974.371	ug/L	3.140	8749776	55.127
Y	89		ug/L		263	0.002
Zr	90	491.383	ug/L	2.706	2405499	15.152
Mo	98	1000.086	ug/L	3.082	2147875	13.530
Ag	107	245.837	ug/L	0.361	831778	5.239
Cd	111	948.438	ug/L	1.211	763975	4.813
Cd	114		ug/L		1749824	11.024
> In	115		ug/L		158729	158728.630
Sn	120	966.554	ug/L	2.314	3444352	21.694
Sb	121	311.858	ug/L	1.357	769423	4.843
Sb	123		ug/L		596219	3.753
Ba	135		ug/L		831661	4.167
Ba	137	912.568	ug/L	1.544	1433706	7.183
Ho	165		ug/L		96	0.000
> Lu	175		ug/L		199577	199577.070
Tl	205	453.029	ug/L	0.758	2507600	12.558
Pb	208	4655.006	ug/L	1.594	49745449	249.227
Th	232	2358.733	ug/L	1.733	25525609	127.888
U	238	4997.893	ug/L	1.507	52606827	263.595

Sample ID: QC Std 10

Report Date/Time: Monday, April 12, 2010 03:47:39

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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	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

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7	92.731				
|	Be	9	92.215				
|	B	11					
|	Na	23	103.197				
|	Mg	24	93.617				
|	Al	27	96.324				
|	P	31	93.738				
|	K	39	94.142				
|	Ca	43	96.988				
>	Sc	45		99.0			
|	Ti	47					
|	V	51	97.250				
|	Cr	52	95.670				
|	Cr	53					
|	Mn	55	95.353				
|	Fe	57	96.927				
|	Co	59	93.276				
|	Ni	60	92.604				
|	Cu	63					
|	Cu	65	91.975				
|	Zn	66	86.003				
|	Zn	67					
|	Zn	68					
>	Ge	74		98.9			
|	As	75	92.863				
|	Se	77					
|	Se	82	97.464				
|	Kr	83					
|	Sr	88	97.437				
|	Y	89					
|	Zr	90	98.277				
|	Mo	98	100.009				
|	Ag	107	98.335				
|	Cd	111	94.844				
|	Cd	114					
>	In	115		97.2			
|	Sn	120	96.655				
|	Sb	121	124.743				
|	Sb	123					
|	Ba	135					
|	Ba	137	91.257				
|	Ho	165					
>	Lu	175		103.0			
|	Tl	205	90.606				
|	Pb	208	93.100				
|	Th	232	94.349				
|	U	238	99.958				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 10	Zn	66	LRS is out of limits (+/- 10%)
QC Std 10	Sb	121	LRS is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

Sample ID: QC Std 10

Report Date/Time: Monday, April 12, 2010 03:47:39

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ICPMS#4 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Monday, April 12, 2010 03:51:03

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 11.561

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	50.281 ug/L	0.388	31325	0.047
|	Be	9	49.923 ug/L	1.133	8142	0.012
|	B	11	99.071 ug/L	1.624	14127	0.021
|	Na	23	5262.825 ug/L	1.901	9061927	13.709
|	Mg	24	5479.521 ug/L	9.688	6830656	10.345
|	Al	27	4937.453 ug/L	2.473	8565056	12.971
|	P	31	4902.983 ug/L	1.219	502697	0.757
|	K	39	5110.624 ug/L	1.108	15771565	23.298
|	Ca	43	4971.923 ug/L	0.396	31813	0.048
>	Sc	45	ug/L		660190	660190.110
|	Ti	47	50.088 ug/L	1.730	16606	0.025
|	V	51	51.249 ug/L	3.664	236055	0.326
|	Cr	52	53.142 ug/L	1.690	157338	0.256
|	Cr	53	ug/L		120832	-0.013
|	Mn	55	53.603 ug/L	1.917	284333	0.430
|	Fe	57	5012.467 ug/L	1.000	544027	0.816
|	Co	59	51.398 ug/L	1.452	209797	0.318
|	Ni	60	53.972 ug/L	2.027	47049	0.071
|	Cu	63	ug/L		109472	0.162
|	Cu	65	53.257 ug/L	0.502	52806	0.078
[	Zn	66	51.496 ug/L	2.455	31544	0.111
|	Zn	67	ug/L		10903	0.012
|	Zn	68	ug/L		23267	0.080
>	Ge	74	ug/L		271556	271556.081
|	As	75	52.836 ug/L	0.892	36592	0.134
|	Se	77	ug/L		6719	0.004
|	Se	82	54.296 ug/L	4.039	3501	0.013
|	Kr	83	ug/L		53	-0.000
[	Sr	88	51.716 ug/L	1.399	488312	2.926
|	Y	89	ug/L		44	0.000
|	Zr	90	52.085 ug/L	4.805	268373	1.606
|	Mo	98	52.431 ug/L	3.757	118790	0.709
|	Ag	107	51.756 ug/L	1.435	184183	1.103
|	Cd	111	52.082 ug/L	2.664	44109	0.264
|	Cd	114	ug/L		103281	0.619
>	In	115	ug/L		166853	166853.012
|	Sn	120	51.674 ug/L	2.448	194511	1.160
|	Sb	121	57.659 ug/L	4.589	150048	0.895
|	Sb	123	ug/L		115405	0.688
[	Ba	135	ug/L		45547	0.229
|	Ba	137	50.585 ug/L	1.753	79109	0.398
|	Ho	165	ug/L		9	-0.000
>	Lu	175	ug/L		198599	198598.574
|	Tl	205	50.834 ug/L	1.645	281077	1.409
|	Pb	208	52.404 ug/L	1.413	561624	2.806
|	Th	232	54.371 ug/L	1.202	586846	2.948
	U	238	54.322 ug/L	1.641	569608	2.865

Sample ID: QC Std 11

Report Date/Time: Monday, April 12, 2010 03:53:46

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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	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

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7	100.562				
|	Be	9	99.845				
|	B	11	99.071				
|	Na	23	105.257				
|	Mg	24	109.590				
|	Al	27	97.771				
|	P	31	98.060				
|	K	39	102.212				
|	Ca	43	99.438				
>	Sc	45		102.4			
|	Ti	47	100.175				
|	V	51	102.498				
|	Cr	52	106.284				
|	Cr	53					
|	Mn	55	107.206				
|	Fe	57	100.249				
|	Co	59	102.796				
|	Ni	60	107.945				
|	Cu	63					
|	Cu	65	106.513				
[	Zn	66	102.992				
|	Zn	67					
|	Zn	68					
>	Ge	74		104.4			
|	As	75	105.672				
|	Se	77					
|	Se	82	108.592				
|	Kr	83					
[	Sr	88	103.433				
|	Y	89					
|	Zr	90	104.169				
|	Mo	98	104.862				
|	Ag	107	103.513				
|	Cd	111	104.165				
|	Cd	114					
>	In	115		102.1			
|	Sn	120	103.349				
|	Sb	121	115.317				
|	Sb	123					
[	Ba	135					
|	Ba	137	101.170				
|	Ho	165					
>	Lu	175		102.5			
|	Tl	205	101.668				
|	Pb	208	104.808				
|	Th	232	108.741				
|	U	238	108.645				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 11	Sb	121	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Monday, April 12, 2010 03:57:12

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 12.562

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.106	ug/L	30.845	100	0.000
Be	9	0.018	ug/L	64.210	9	0.000
B	11	1.041	ug/L	15.698	265	0.000
Na	23	4.686	ug/L	75.280	20015	0.012
Mg	24	4.353	ug/L	19.683	6335	0.008
Al	27	3.889	ug/L	60.477	7669	0.010
P	31	2.577	ug/L	69.782	3377	0.000
K	39	0.880	ug/L	633.113	407402	0.004
Ca	43	7.240	ug/L	24.333	261	0.000
> Sc	45		ug/L		684008	684008.183
Ti	47	0.160	ug/L	19.632	238	0.000
V	51	-1.276	ug/L	110.481	16065	-0.008
Cr	52	0.442	ug/L	11.535	-10504	0.002
Cr	53		ug/L		124787	-0.013
Mn	55	0.026	ug/L	26.601	919	0.000
Fe	57	1.571	ug/L	154.676	5975	0.000
Co	59	0.040	ug/L	20.317	326	0.000
Ni	60	0.039	ug/L	29.603	109	0.000
Cu	63		ug/L		2799	0.000
Cu	65	-0.092	ug/L	88.529	1323	-0.000
Zn	66	-0.280	ug/L	14.627	1182	-0.001
Zn	67		ug/L		7551	-0.001
Zn	68		ug/L		1443	-0.000
> Ge	74		ug/L		279215	279215.269
As	75	0.576	ug/L	42.343	490	0.001
Se	77		ug/L		5750	-0.000
Se	82	2.231	ug/L	10.212	179	0.001
Kr	83		ug/L		61	-0.000
Sr	88	0.040	ug/L	10.674	572	0.002
Y	89		ug/L		21	-0.000
Zr	90	0.409	ug/L	16.051	2729	0.013
Mo	98	0.888	ug/L	7.891	2572	0.012
Ag	107	0.111	ug/L	20.059	588	0.002
Cd	111	0.053	ug/L	11.616	69	0.000
Cd	114		ug/L		172	0.001
> In	115		ug/L		171192	171191.715
Sn	120	0.414	ug/L	7.981	2675	0.009
Sb	121	1.154	ug/L	19.713	3786	0.018
Sb	123		ug/L		2909	0.014
Ba	135		ug/L		75	0.000
Ba	137	0.032	ug/L	22.477	81	0.000
Ho	165		ug/L		8	-0.000
> Lu	175		ug/L		198223	198222.584
Tl	205	0.597	ug/L	15.075	4505	0.017
Pb	208	0.341	ug/L	7.117	8020	0.018
Th	232	0.835	ug/L	13.697	10368	0.045
U	238	0.251	ug/L	13.116	3230	0.013

Sample ID: QC Std 12

Report Date/Time: Monday, April 12, 2010 03:59:57

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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	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

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		106.1			
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		107.3			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		104.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		102.3			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 12	Mo	98CCB is out of limits (+/- PQL)
QC Std 12	U	238CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

Sample ID: QC Std 12

Report Date/Time: Monday, April 12, 2010 03:59:57

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ICPMS#4 - Summary Report

Sample ID: 1202056872

Sample Date/Time: Monday, April 12, 2010 04:03:24

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 959112|1|bcd1

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\1202056872.563

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.144	ug/L	12.170	127	0.000
Be	9	0.024	ug/L	47.465	10	0.000
B	11	0.646	ug/L	11.407	212	0.000
Na	23	12.449	ug/L	9.262	34709	0.032
Mg	24	1.980	ug/L	60.334	3334	0.004
Al	27	3.940	ug/L	46.843	8003	0.010
P	31	2.807	ug/L	94.310	3482	0.000
K	39	4.906	ug/L	124.806	429703	0.022
Ca	43	42.570	ug/L	9.692	505	0.000
> Sc	45		ug/L		700502	700502.234
Ti	47	0.659	ug/L	10.251	417	0.000
V	51	-0.627	ug/L	395.800	19170	-0.004
Cr	52	-5.241	ug/L	10.083	-29897	-0.025
Cr	53		ug/L		345927	0.299
Mn	55	0.242	ug/L	5.101	2155	0.002
Fe	57	12.836	ug/L	10.541	7406	0.002
Co	59	0.008	ug/L	65.912	194	0.000
Ni	60	0.029	ug/L	51.539	102	0.000
Cu	63		ug/L		4478	0.002
Cu	65	0.689	ug/L	19.996	2152	0.001
Zn	66	3.968	ug/L	27.214	3880	0.009
Zn	67		ug/L		30421	0.077
Zn	68		ug/L		4296	0.009
> Ge	74		ug/L		289438	289438.482
As	75	0.201	ug/L	625.115	237	0.001
Se	77		ug/L		19595	0.047
Se	82	1.361	ug/L	31.244	126	0.000
Kr	83		ug/L		64	-0.000
Sr	88	0.038	ug/L	20.272	578	0.002
Y	89		ug/L		33	0.000
Zr	90	0.402	ug/L	15.740	2782	0.012
Mo	98	0.595	ug/L	4.559	1954	0.008
Ag	107	0.047	ug/L	22.882	369	0.001
Cd	111	0.026	ug/L	15.146	47	0.000
Cd	114		ug/L		119	0.000
> In	115		ug/L	/	176710	176709.743
Sn	120	1.278	ug/L	8.215	6187	0.029
Sb	121	0.728	ug/L	24.379	2744	0.011
Sb	123		ug/L		2109	0.009
Ba	135		ug/L		69	0.000
Ba	137	0.044	ug/L	14.291	102	0.000
Ho	165		ug/L		9	-0.000
> Lu	175		ug/L		199834	199833.745
Tl	205	0.338	ug/L	17.899	3105	0.009
Pb	208	1.110	ug/L	5.047	16318	0.059
Th	232	0.592	ug/L	14.269	7823	0.032
U	238	0.095	ug/L	10.877	1611	0.005

Sample ID: 1202056872

Report Date/Time: Monday, April 12, 2010 04:06:11

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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	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

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	108.7			
|	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	111.3			
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
[	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115	108.2			
|	Sn	120				
|	Sb	121				
|	Sb	123				
[	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175	103.2			
|	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: 1202056872

Report Date/Time: Monday, April 12, 2010 04:06:11

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ICPMS#4 - Summary Report

Sample ID: 1202056873

Sample Date/Time: Monday, April 12, 2010 04:09:38

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 959112|1|bcd1

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\1202056873.564

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	47.437	ug/L	0.939	31120	0.045
Be	9	48.562	ug/L	2.265	8339	0.012
B	11	103.534	ug/L	1.014	15540	0.022
Na	23	1968.041	ug/L	4.852	3576238	5.126
Mg	24	1911.396	ug/L	6.957	2509112	3.609
Al	27	1926.582	ug/L	6.333	3518248	5.061
P	31	1868.379	ug/L	0.129	203673	0.288
K	39	1998.747	ug/L	2.059	6745933	9.112
Ca	43	2046.946	ug/L	2.403	13917	0.020
> Sc	45		ug/L		695164	695164.170
Ti	47	45.898	ug/L	2.479	16039	0.023
V	51	50.993	ug/L	3.710	247360	0.324
Cr	52	46.568	ug/L	0.888	143662	0.224
Cr	53		ug/L		374813	0.344
Mn	55	53.782	ug/L	1.889	300344	0.431
Fe	57	2121.865	ug/L	1.423	245883	0.345
Co	59	53.070	ug/L	0.130	228101	0.328
Ni	60	53.825	ug/L	1.194	49408	0.071
Cu	63		ug/L		118286	0.166
Cu	65	54.375	ug/L	1.626	56737	0.080
Zn	66	48.706	ug/L	3.022	32004	0.105
Zn	67		ug/L		36860	0.099
Zn	68		ug/L		24546	0.079
> Ge	74		ug/L		290647	290646.962
As	75	50.602	ug/L	8.493	37502	0.129
Se	77		ug/L		22061	0.055
Se	82	48.832	ug/L	1.900	3374	0.011
Kr	83		ug/L		77	0.000
Sr	88	49.778	ug/L	2.151	504519	2.816
Y	89		ug/L		54	0.000
Zr	90	48.628	ug/L	1.705	269097	1.500
Mo	98	50.242	ug/L	1.086	122252	0.680
Ag	107	51.337	ug/L	1.035	196116	1.094
Cd	111	48.182	ug/L	1.577	43813	0.245
Cd	114		ug/L		102944	0.575
> In	115		ug/L		179071	179071.035
Sn	120	49.003	ug/L	1.390	198077	1.100
Sb	121	59.775	ug/L	0.767	166990	0.928
Sb	123		ug/L		128408	0.714
Ba	135		ug/L		45678	0.224
Ba	137	49.095	ug/L	0.294	78890	0.386
Ho	165		ug/L		17	0.000
> Lu	175		ug/L		204056	204056.313
Tl	205	47.789	ug/L	0.506	271579	1.325
Pb	208	52.187	ug/L	1.590	574669	2.794
Th	232	51.609	ug/L	1.924	572492	2.798
U	238	54.936	ug/L	2.300	591709	2.897

Sample ID: 1202056873

Report Date/Time: Monday, April 12, 2010 04:12:25

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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	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

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		107.8			
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		111.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		109.6			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		105.3			
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: 1202056873

Report Date/Time: Monday, April 12, 2010 04:12:25

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ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 12, 2010 05:05:40

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 6.573

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	49.807 ug/L	0.772	30576	0.047
|	Be	9	49.214 ug/L	3.101	7907	0.012
|	B	11	100.083 ug/L	0.214	14062	0.021
|	Na	23	5216.555 ug/L	3.695	8851128	13.588
|	Mg	24	5018.461 ug/L	2.745	6163339	9.474
|	Al	27	4977.080 ug/L	2.341	8508127	13.076
|	P	31	4827.331 ug/L	1.539	487750	0.745
|	K	39	4923.194 ug/L	3.536	14982550	22.443
|	Ca	43	4807.632 ug/L	2.311	30315	0.046
>	Sc	45	ug/L		650556	650555.880
|	Ti	47	48.828 ug/L	2.560	15954	0.024
|	V	51	50.823 ug/L	5.859	230743	0.323
|	Cr	52	51.102 ug/L	2.324	148619	0.246
|	Cr	53	ug/L		133243	0.009
|	Mn	55	51.807 ug/L	2.184	270763	0.415
|	Fe	57	4922.337 ug/L	3.660	526405	0.801
|	Co	59	50.163 ug/L	2.546	201740	0.310
|	Ni	60	52.646 ug/L	2.991	45219	0.069
|	Cu	63	ug/L		106822	0.160
|	Cu	65	52.665 ug/L	1.370	51467	0.077
[	Zn	66	51.158 ug/L	0.703	30435	0.111
|	Zn	67	ug/L		11640	0.016
|	Zn	68	ug/L		22331	0.079
>	Ge	74	ug/L		263670	263669.826
|	As	75	49.662 ug/L	1.381	33396	0.126
|	Se	77	ug/L		6861	0.005
|	Se	82	45.092 ug/L	6.433	2828	0.011
|	Kr	83	ug/L		56	-0.000
[	Sr	88	50.459 ug/L	1.655	465513	2.855
|	Y	89	ug/L		55	0.000
|	Zr	90	48.396 ug/L	3.484	243744	1.492
|	Mo	98	48.849 ug/L	2.834	108195	0.661
|	Ag	107	51.342 ug/L	2.178	178514	1.094
|	Cd	111	50.418 ug/L	1.882	41725	0.256
|	Cd	114	ug/L		97125	0.596
>	In	115	ug/L		163029	163028.776
|	Sn	120	49.522 ug/L	3.255	182181	1.112
|	Sb	121	54.526 ug/L	4.869	138667	0.847
|	Sb	123	ug/L		107791	0.658
[	Ba	135	ug/L		43763	0.225
|	Ba	137	49.324 ug/L	1.487	75408	0.388
|	Ho	165	ug/L		13	0.000
>	Lu	175	ug/L		194149	194149.341
|	Tl	205	48.008 ug/L	1.285	259566	1.331
|	Pb	208	50.697 ug/L	0.790	531286	2.714
|	Th	232	49.529 ug/L	2.342	522761	2.685
|	U	238	53.530 ug/L	1.177	548709	2.823

Sample ID: QC Std 6

Report Date/Time: Monday, April 12, 2010 05:08:24

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	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

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	99.613				
Be	9	98.428				
B	11	100.083				
Na	23	104.331				
Mg	24	100.369				
Al	27	98.556				
P	31	96.547				
K	39	98.464				
Ca	43	96.153				
> Sc	45		100.9			
Ti	47	97.656				
V	51	101.647				
Cr	52	102.204				
Cr	53					
Mn	55	103.614				
Fe	57	98.447				
Co	59	100.325				
Ni	60	105.292				
Cu	63					
Cu	65	105.330				
Zn	66	102.316				
Zn	67					
Zn	68					
> Ge	74		101.4			
As	75	99.324				
Se	77					
Se	82	90.184				
Kr	83					
Sr	88	100.918				
Y	89					
Zr	90	96.793				
Mo	98	97.699				
Ag	107	102.684				
Cd	111	100.836				
Cd	114					
> In	115		99.8			
Sn	120	99.044				
Sb	121	109.053				
Sb	123					
Ba	135					
Ba	137	98.648				
Ho	165					
> Lu	175		100.2			
Tl	205	96.015				
Pb	208	101.395				
Th	232	99.058				
U	238	107.061				

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: QC Std 7

Sample Date/Time: Monday, April 12, 2010 05:11:50

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 7.574

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.015	ug/L	73.906	37	0.000
Be	9	0.018	ug/L	71.383	8	0.000
B	11	1.113	ug/L	31.283	251	0.000
Na	23	3.520	ug/L	64.005	16343	0.009
Mg	24	0.861	ug/L	111.528	1667	0.002
Al	27	0.626	ug/L	113.629	1667	0.002
P	31	5.295	ug/L	64.947	3340	0.001
K	39	-3.257	ug/L	243.352	359823	-0.015
Ca	43	7.954	ug/L	74.235	242	0.000
> Sc	45		ug/L		623723	623722.517
Ti	47	0.070	ug/L	49.820	189	0.000
V	51	-0.577	ug/L	131.908	17449	-0.004
Cr	52	-0.119	ug/L	72.616	-11263	-0.001
Cr	53		ug/L		128536	0.010
Mn	55	0.016	ug/L	82.483	789	0.000
Fe	57	2.040	ug/L	47.616	5497	0.000
Co	59	0.005	ug/L	49.639	164	0.000
Ni	60	0.021	ug/L	28.689	84	0.000
Cu	63		ug/L		2312	-0.000
Cu	65	-0.252	ug/L	46.900	1059	-0.000
Zn	66	-0.566	ug/L	4.153	932	-0.001
Zn	67		ug/L		7738	0.002
Zn	68		ug/L		1250	-0.001
> Ge	74		ug/L		257660	257659.924
As	75	0.952	ug/L	86.590	696	0.002
Se	77		ug/L		5918	0.002
Se	82	1.496	ug/L	14.573	121	0.000
Kr	83		ug/L		56	-0.000
Sr	88	0.010	ug/L	50.491	261	0.001
Y	89		ug/L		17	-0.000
Zr	90	0.335	ug/L	17.985	2139	0.010
Mo	98	0.412	ug/L	19.540	1345	0.006
Ag	107	0.042	ug/L	28.426	311	0.001
Cd	111	0.000	ug/L	2482.021	21	0.000
Cd	114		ug/L		63	0.000
> In	115		ug/L		156899	156899.262
Sn	120	0.122	ug/L	27.708	1422	0.003
Sb	121	1.255	ug/L	26.378	3712	0.019
Sb	123		ug/L		2867	0.015
Ba	135		ug/L		31	0.000
Ba	137	0.011	ug/L	16.822	46	0.000
Ho	165		ug/L		7	-0.000
> Lu	175		ug/L		189202	189202.061
Tl	205	0.370	ug/L	20.545	3110	0.010
Pb	208	0.019	ug/L	56.827	4400	0.001
Th	232	0.441	ug/L	25.314	5866	0.024
U	238	0.044	ug/L	53.866	1024	0.002

Sample ID: QC Std 7

Report Date/Time: Monday, April 12, 2010 05:14:35

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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	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: QC Std 7

Report Date/Time: Monday, April 12, 2010 05:14:35

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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		96.7			
|	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		99.1			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Zr	90					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115		96.0			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175		97.7			
|	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: QC Std 7

Report Date/Time: Monday, April 12, 2010 05:14:35

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ICPMS#4 - Summary Report

Sample ID: 248199001

Sample Date/Time: Monday, April 12, 2010 05:18:01

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959112|1|bcd1

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\248199001.575

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.192	ug/L	10.937	156	0.000
Be	9	-0.002	ug/L	1344.246	6	-0.000
B	11	29.191	ug/L	1.298	4397	0.006
Na	23	137.459	ug/L	10.055	256973	0.358
Mg	24	4.863	ug/L	41.542	7002	0.009
Al	27	12.026	ug/L	10.200	22351	0.032
P	31	12.342	ug/L	38.022	4413	0.002
K	39	83.607	ug/L	21.267	666256	0.381
Ca	43	85.783	ug/L	8.484	779	0.001
> Sc	45		ug/L		684828	684828.363
Ti	47	1.071	ug/L	7.231	548	0.001
V	51	-1.529	ug/L	194.474	14987	-0.010
Cr	52	-8.407	ug/L	8.260	-39688	-0.040
Cr	53		ug/L		538409	0.591
Mn	55	0.657	ug/L	1.736	4386	0.005
Fe	57	31.262	ug/L	5.315	9292	0.005
Co	59	0.001	ug/L	600.605	161	0.000
Ni	60	0.079	ug/L	10.408	145	0.000
Cu	63		ug/L		6732	0.006
Cu	65	1.805	ug/L	5.233	3224	0.003
Zn	66	4.411	ug/L	23.418	4190	0.010
Zn	67		ug/L		59554	0.176
Zn	68		ug/L		5311	0.013
> Ge	74		ug/L		291676	291675.894
As	75	0.283	ug/L	830.961	286	0.001
Se	77		ug/L		35000	0.099
Se	82	1.069	ug/L	58.765	107	0.000
Kr	83		ug/L		80	0.000
Sr	88	0.110	ug/L	4.228	1236	0.006
Y	89		ug/L		161	0.001
Zr	90	0.381	ug/L	27.123	2546	0.012
Mo	98	0.402	ug/L	12.102	1425	0.005
Ag	107	0.033	ug/L	21.528	299	0.001
Cd	111	-0.001	ug/L	453.250	22	-0.000
Cd	114		ug/L		40	0.000
> In	115		ug/L		168804	168803.954
Sn	120	2.011	ug/L	1.878	8689	0.045
Sb	121	0.858	ug/L	34.257	2958	0.013
Sb	123		ug/L		2248	0.010
Ba	135		ug/L		313	0.002
Ba	137	0.316	ug/L	4.574	509	0.002
Ho	165		ug/L		11	0.000
> Lu	175		ug/L		192162	192161.727
Tl	205	0.211	ug/L	22.622	2313	0.006
Pb	208	1.427	ug/L	5.211	18944	0.076
Th	232	0.291	ug/L	36.938	4389	0.016
U	238	-0.025	ug/L	3.179	336	-0.001

Sample ID: 248199001

Report Date/Time: Monday, April 12, 2010 05:20:47

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	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

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: 1202056874

Sample Date/Time: Monday, April 12, 2010 05:24:14

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 959112|1|bcd1

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\1202056874.576

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.163	ug/L	9.060	131	0.000
Be	9	-0.011	ug/L	60.124	4	-0.000
B	11	29.717	ug/L	0.980	4273	0.006
Na	23	143.901	ug/L	1.645	256278	0.375
Mg	24	5.947	ug/L	25.291	8002	0.011
Al	27	11.674	ug/L	28.940	20682	0.031
P	31	1.213	ug/L	210.233	3090	0.000
K	39	69.529	ug/L	19.840	594503	0.317
Ca	43	65.872	ug/L	6.895	619	0.001
> Sc	45		ug/L		654020	654020.219
Ti	47	0.771	ug/L	3.964	426	0.000
V	51	-0.394	ug/L	955.459	19099	-0.003
Cr	52	-5.611	ug/L	6.633	-29091	-0.027
Cr	53		ug/L		388344	0.398
Mn	55	0.490	ug/L	3.536	3310	0.004
Fe	57	13.263	ug/L	4.708	6959	0.002
Co	59	-0.002	ug/L	209.194	142	-0.000
Ni	60	0.048	ug/L	26.985	112	0.000
Cu	63		ug/L		3841	0.002
Cu	65	0.553	ug/L	5.320	1881	0.001
Zn	66	1.340	ug/L	11.538	2120	0.003
Zn	67		ug/L		31279	0.086
Zn	68		ug/L		3096	0.006
> Ge	74		ug/L		273976	273976.097
As	75	-0.257	ug/L	600.100	-99	-0.001
Se	77		ug/L		25431	0.072
Se	82	-0.011	ug/L	627.991	31	-0.000
Kr	83		ug/L		63	0.000
Sr	88	0.094	ug/L	7.249	1052	0.005
Y	89		ug/L		148	0.001
Zr	90	0.055	ug/L	19.588	822	0.002
Mo	98	0.012	ug/L	120.393	521	0.000
Ag	107	-0.004	ug/L	33.326	161	-0.000
Cd	111	-0.008	ug/L	62.280	15	-0.000
Cd	114		ug/L		23	-0.000
> In	115		ug/L		163784	163784.255
Sn	120	0.370	ug/L	7.424	2397	0.008
Sb	121	0.071	ug/L	24.527	871	0.001
Sb	123		ug/L		672	0.001
Ba	135		ug/L		207	0.001
Ba	137	0.209	ug/L	3.397	345	0.002
Ho	165		ug/L		11	0.000
> Lu	175		ug/L		191276	191276.071
Tl	205	-0.042	ug/L	21.813	960	-0.001
Pb	208	0.631	ug/L	10.302	10704	0.034
Th	232	-0.010	ug/L	78.092	1254	-0.001
U	238	-0.037	ug/L	22.681	217	-0.002

Sample ID: 1202056874

Report Date/Time: Monday, April 12, 2010 05:27:00

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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	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

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		101.4			
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		105.3			
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		100.2			
Sn	120					
Sb	121					
L Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		98.7			
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

ICPMS#4 - Summary Report

Sample ID: 1202056875

Sample Date/Time: Monday, April 12, 2010 05:30:27

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 959112|1|bcd1

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\1202056875.577

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	46.576	ug/L	2.348	29450	0.044
Be	9	48.583	ug/L	2.698	8040	0.012
B	11	129.597	ug/L	2.850	18717	0.028
Na	23	2050.399	ug/L	7.388	3588494	5.341
Mg	24	1859.937	ug/L	14.140	2353582	3.511
Al	27	1813.940	ug/L	7.969	3190903	4.766
P	31	1764.429	ug/L	1.812	185542	0.272
K	39	2029.296	ug/L	10.589	6588712	9.251
Ca	43	2041.905	ug/L	2.550	13383	0.020
> Sc	45		ug/L		670115	670115.239
Ti	47	45.960	ug/L	2.185	15477	0.023
V	51	50.488	ug/L	7.017	236143	0.321
Cr	52	46.128	ug/L	2.249	137027	0.222
Cr	53		ug/L		382213	0.375
Mn	55	51.922	ug/L	0.689	279535	0.416
Fe	57	2051.668	ug/L	3.789	229276	0.334
Co	59	50.261	ug/L	3.219	208170	0.311
Ni	60	52.295	ug/L	3.408	46258	0.069
Cu	63		ug/L		111270	0.162
Cu	65	53.613	ug/L	1.694	53945	0.078
Zn	66	47.285	ug/L	1.235	29971	0.102
Zn	67		ug/L		35550	0.099
Zn	68		ug/L		23294	0.078
> Ge	74		ug/L		279946	279945.776
As	75	76.038	ug/L	2.875	54253	0.194
Se	77		ug/L		22447	0.060
Se	82	18.808	ug/L	4.559	1272	0.004
Kr	83		ug/L		79	0.000
Sr	88	50.646	ug/L	1.864	475658	2.865
Y	89		ug/L		191	0.001
Zr	90	50.773	ug/L	0.530	260384	1.566
Mo	98	50.124	ug/L	1.962	113022	0.678
Ag	107	52.083	ug/L	1.476	184371	1.110
Cd	111	9.941	ug/L	2.766	8393	0.050
Cd	114		ug/L		19535	0.118
> In	115		ug/L		165966	165965.636
Sn	120	49.470	ug/L	0.315	185334	1.110
Sb	121	245.922	ug/L	0.959	634519	3.819
Sb	123		ug/L		484668	2.917
Ba	135		ug/L		43546	0.223
Ba	137	49.305	ug/L	1.289	75732	0.388
Ho	165		ug/L		103	0.000
> Lu	175		ug/L		195069	195069.184
Tl	205	84.356	ug/L	4.255	457429	2.338
Pb	208	41.487	ug/L	1.425	437598	2.221
Th	232	51.956	ug/L	2.455	550955	2.817
U	238	54.665	ug/L	0.886	562992	2.883

Sample ID: 1202056875

Report Date/Time: Monday, April 12, 2010 05:33:14

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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	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

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	103.9			
|	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	101.6			
|	Sn	120				
|	Sb	121				
|	Sb	123				
[	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175	100.7			
|	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: 1202056875

Report Date/Time: Monday, April 12, 2010 05:33:14

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ICPMS#4 - Summary Report

Sample ID: 1202056876

Sample Date/Time: Monday, April 12, 2010 05:36:41

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 959112|5|bcd1

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\1202056876.578

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.057	ug/L	13.763	64	0.000
Be	9	0.019	ug/L	135.259	9	0.000
B	11	4.705	ug/L	6.437	750	0.001
Na	23	20.084	ug/L	27.915	44404	0.052
Mg	24	2.759	ug/L	28.811	4001	0.005
Al	27	2.779	ug/L	11.564	5334	0.007
P	31	1.873	ug/L	59.405	3090	0.000
K	39	2.018	ug/L	156.933	384442	0.009
Ca	43	23.514	ug/L	12.351	344	0.000
> Sc	45		ug/L		639817	639817.135
Ti	47	0.233	ug/L	8.448	245	0.000
V	51	-0.158	ug/L	452.055	19635	-0.001
Cr	52	-0.930	ug/L	15.590	-14050	-0.004
Cr	53		ug/L		194517	0.108
Mn	55	0.130	ug/L	7.403	1396	0.001
Fe	57	1.343	ug/L	100.892	5566	0.000
Co	59	0.026	ug/L	5.274	250	0.000
Ni	60	0.030	ug/L	11.981	94	0.000
Cu	63		ug/L		2285	-0.000
Cu	65	-0.255	ug/L	7.267	1084	-0.000
Zn	66	-0.144	ug/L	111.964	1186	-0.000
Zn	67		ug/L		11711	0.017
Zn	68		ug/L		1589	0.001
> Ge	74		ug/L		261765	261764.795
As	75	0.901	ug/L	40.481	676	0.002
Se	77		ug/L		11146	0.022
Se	82	0.418	ug/L	83.108	57	0.000
Kr	83		ug/L		51	-0.000
Sr	88	0.043	ug/L	9.811	573	0.002
Y	89		ug/L		41	0.000
Zr	90	0.034	ug/L	35.882	706	0.001
Mo	98	0.054	ug/L	17.545	603	0.001
Ag	107	0.032	ug/L	10.191	283	0.001
Cd	111	-0.006	ug/L	134.627	17	-0.000
Cd	114		ug/L		30	-0.000
> In	115		ug/L		161127	161127.437
Sn	120	0.203	ug/L	19.640	1755	0.005
Sb	121	0.059	ug/L	53.057	827	0.001
Sb	123		ug/L		649	0.001
Ba	135		ug/L		81	0.000
Ba	137	0.075	ug/L	8.815	143	0.001
Ho	165		ug/L		9	-0.000
> Lu	175		ug/L		192513	192513.157
Tl	205	2.680	ug/L	12.956	15509	0.074
Pb	208	0.081	ug/L	6.472	5116	0.004
Th	232	0.281	ug/L	18.226	4304	0.015
U	238	0.012	ug/L	190.932	715	0.001

Sample ID: 1202056876

Report Date/Time: Monday, April 12, 2010 05:39:28

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	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

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			99.2		
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			100.6		
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115			98.6		
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175			99.4		
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: 1202056876

Report Date/Time: Monday, April 12, 2010 05:39:28

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ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 12, 2010 05:42:53

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 6.579

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.720	ug/L	1.757	30736	0.049
Be	9	50.903	ug/L	1.715	7919	0.013
B	11	99.402	ug/L	1.099	13523	0.021
Na	23	5683.830	ug/L	6.494	9331555	14.805
Mg	24	4766.103	ug/L	2.714	5666856	8.998
Al	27	5113.478	ug/L	3.764	8459736	13.434
P	31	4864.794	ug/L	0.505	475881	0.751
K	39	4925.418	ug/L	5.634	14519623	22.453
Ca	43	4849.215	ug/L	1.453	29609	0.047
> Sc	45		ug/L		629840	629839.788
Ti	47	49.411	ug/L	2.449	15628	0.025
V	51	51.095	ug/L	3.366	224538	0.325
Cr	52	51.563	ug/L	1.471	145299	0.248
Cr	53		ug/L		125730	0.004
Mn	55	52.023	ug/L	1.914	263235	0.417
Fe	57	4909.381	ug/L	1.235	508424	0.799
Co	59	50.172	ug/L	2.477	195373	0.310
Ni	60	52.152	ug/L	1.643	43377	0.069
Cu	63		ug/L		103339	0.160
Cu	65	52.900	ug/L	1.535	50044	0.077
Zn	66	51.383	ug/L	3.220	29731	0.111
Zn	67		ug/L		10948	0.015
Zn	68		ug/L		21826	0.080
> Ge	74		ug/L		256530	256530.478
As	75	50.277	ug/L	3.169	32898	0.128
Se	77		ug/L		6659	0.005
Se	82	46.676	ug/L	0.991	2848	0.011
Kr	83		ug/L		52	-0.000
Sr	88	50.513	ug/L	1.869	455731	2.858
Y	89		ug/L		37	0.000
Zr	90	47.917	ug/L	1.419	236065	1.478
Mo	98	48.577	ug/L	1.226	105249	0.657
Ag	107	50.757	ug/L	2.517	172589	1.082
Cd	111	50.014	ug/L	1.181	40483	0.254
Cd	114		ug/L		95085	0.596
> In	115		ug/L		159427	159426.925
Sn	120	48.990	ug/L	1.789	176290	1.100
Sb	121	54.951	ug/L	2.862	136753	0.853
Sb	123		ug/L		104461	0.652
Ba	135		ug/L		42677	0.221
Ba	137	48.751	ug/L	2.080	73940	0.384
Ho	165		ug/L		14	0.000
> Lu	175		ug/L		192615	192614.780
Tl	205	48.237	ug/L	0.359	258748	1.337
Pb	208	50.379	ug/L	1.700	523786	2.697
Th	232	49.973	ug/L	2.542	523249	2.709
U	238	53.198	ug/L	1.145	541011	2.806

Sample ID: QC Std 6

Report Date/Time: Monday, April 12, 2010 05:45:37

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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	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

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7	103.439				
|	Be	9	101.806				
|	B	11	99.402				
|	Na	23	113.677				
|	Mg	24	95.322				
|	Al	27	101.257				
|	P	31	97.296				
|	K	39	98.508				
|	Ca	43	96.984				
>	Sc	45		97.7			
|	Ti	47	98.823				
|	V	51	102.189				
|	Cr	52	103.126				
|	Cr	53					
|	Mn	55	104.047				
|	Fe	57	98.188				
|	Co	59	100.345				
|	Ni	60	104.304				
|	Cu	63					
|	Cu	65	105.800				
|	Zn	66	102.766				
|	Zn	67					
|	Zn	68					
>	Ge	74		98.6			
|	As	75	100.554				
|	Se	77					
|	Se	82	93.352				
|	Kr	83					
|	Sr	88	101.027				
|	Y	89					
|	Zr	90	95.834				
|	Mo	98	97.154				
|	Ag	107	101.515				
|	Cd	111	100.029				
|	Cd	114					
>	In	115		97.6			
|	Sn	120	97.981				
|	Sb	121	109.902				
|	Sb	123					
|	Ba	135					
|	Ba	137	97.503				
|	Ho	165					
>	Lu	175		99.4			
|	Tl	205	96.474				
|	Pb	208	100.759				
|	Th	232	99.946				
|	U	238	106.397				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 6	Na	23CCV 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 05:49:03

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 7.580

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li 7	0.016	ug/L	70.693	38	0.000
|	Be 9	0.016	ug/L	107.694	8	0.000
|	B 11	1.302	ug/L	16.447	278	0.000
|	Na 23	-0.431	ug/L	1267.292	10005	-0.001
|	Mg 24	1.700	ug/L	57.325	2667	0.003
|	Al 27	1.222	ug/L	57.324	2667	0.003
|	P 31	2.174	ug/L	38.795	3064	0.000
|	K 39	-5.483	ug/L	94.620	356054	-0.025
|	Ca 43	11.857	ug/L	31.531	267	0.000
>	Sc 45		ug/L		628463	628462.563
|	Ti 47	0.088	ug/L	154.404	196	0.000
|	V 51	-0.482	ug/L	144.274	17973	-0.003
|	Cr 52	0.109	ug/L	19.617	-10659	0.001
|	Cr 53		ug/L		123875	0.001
|	Mn 55	0.006	ug/L	174.065	744	0.000
|	Fe 57	1.135	ug/L	163.202	5446	0.000
|	Co 59	0.009	ug/L	30.186	179	0.000
|	Ni 60	0.019	ug/L	112.743	83	0.000
|	Cu 63		ug/L		1909	-0.001
[	Cu 65	-0.345	ug/L	11.503	982	-0.001
|	Zn 66	-0.748	ug/L	3.421	821	-0.002
|	Zn 67		ug/L		7288	0.001
|	Zn 68		ug/L		1137	-0.001
>	Ge 74		ug/L		254718	254717.757
|	As 75	0.131	ug/L	370.804	156	0.000
|	Se 77		ug/L		5725	0.002
|	Se 82	1.372	ug/L	21.012	112	0.000
[	Kr 83		ug/L		51	-0.000
|	Sr 88	0.009	ug/L	43.594	259	0.001
|	Y 89		ug/L		21	-0.000
|	Zr 90	0.233	ug/L	17.927	1684	0.007
|	Mo 98	0.339	ug/L	15.313	1216	0.005
|	Ag 107	0.041	ug/L	15.479	311	0.001
|	Cd 111	0.005	ug/L	249.476	25	0.000
|	Cd 114		ug/L		68	0.000
>	In 115		ug/L		159918	159918.394
|	Sn 120	0.084	ug/L	10.297	1313	0.002
|	Sb 121	1.242	ug/L	24.611	3759	0.019
[	Sb 123		ug/L		2966	0.015
|	Ba 135		ug/L		30	0.000
|	Ba 137	0.015	ug/L	38.536	53	0.000
|	Ho 165		ug/L		12	0.000
>	Lu 175		ug/L		190007	190007.488
|	Tl 205	1.121	ug/L	9.930	7077	0.031
|	Pb 208	-0.016	ug/L	36.498	4057	-0.001
|	Th 232	0.429	ug/L	24.961	5764	0.023
[	U 238	0.019	ug/L	63.535	775	0.001

Sample ID: QC Std 7

Report Date/Time: Monday, April 12, 2010 05:51:48

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	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

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		97.5			
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		97.9			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		97.9			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		98.1			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 7	TI	205CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

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 % Recovery	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
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, 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	MassCurve Type	Correlation Coefficient
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

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 MassOut 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 % 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: 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	MassCurve Type	Correlation Coefficient
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear 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 MassOut 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 % Recovery	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	MassCurve Type	Correlation Coefficient
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	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 MassOut 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 % Recovery	Dilution % Dil	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 % Recovery	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: 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

Sample ID: QC Std 8

Report Date/Time: Tuesday, April 13, 2010 12:32:13

Page 1

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 % Recovery	Dilution %	DiDuplicate	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 Mass Out 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

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 12:53:55

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\QC Std 8.029

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		179439	179438.954
| Sn	120	49.856	ug/L	1.546	253434	1.409
| Sb	121	52.280	ug/L	2.701	224406	1.250
| Sb	123		ug/L		175814	0.980
[> Lu	175		ug/L		380571	380570.868
| U	238	51.864	ug/L	1.091	2155752	5.664

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		96.6				
| Sn	120	99.711					
| Sb	121	104.560					
| Sb	123						
[> Lu	175		96.9				
| U	238	103.728					

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 12:54:24

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ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 12:56:24

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 9.030

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		178375	178374.506
| Sn	120	-0.037	ug/L	13.537	393	-0.001
| Sb	121	0.145	ug/L	3.498	696	0.003
| Sb	123		ug/L		550	0.003
[> Lu	175		ug/L		376824	376824.203
| U	238	0.004	ug/L	28.193	240	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		96.0			
| Sn	120					
| Sb	121					
| Sb	123					
[> Lu	175		96.0			
| 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 9

Report Date/Time: Tuesday, April 13, 2010 12:56:55

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ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 13:21:54

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 8.039

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		181343	181343.112
| Sn	120	49.625	ug/L	1.270	254948	1.403
| Sb	121	51.369	ug/L	0.964	222861	1.229
| Sb	123		ug/L		175048	0.965
[> Lu	175		ug/L		380870	380870.172
| U	238	51.061	ug/L	0.982	2123878	5.576

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		97.6			
| Sn	120	99.251				
| Sb	121	102.737				
| Sb	123					
[> Lu	175		97.0			
| U	238	102.121				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 8

Report Date/Time: Tuesday, April 13, 2010 13:22:24

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ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 13:24:23

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 9.040

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		182593	182593.360
| Sn	120	-0.048	ug/L	9.118	341	-0.001
| Sb	121	0.142	ug/L	3.687	700	0.003
| Sb	123		ug/L		534	0.003
[> Lu	175		ug/L		384056	384055.625
| U	238	0.004	ug/L	3.626	253	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[> In	115		98.3				
| Sn	120						
| Sb	121						
| Sb	123						
[> Lu	175		97.8				
| 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 13:24:54

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ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 13:36:45

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 8.045

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		169071	169071.440
| Sn	120	49.887	ug/L	2.022	238915	1.410
| Sb	121	52.708	ug/L	3.274	213128	1.261
| Sb	123		ug/L		164071	0.970
[> Lu	175		ug/L		364393	364393.398
| U	238	49.365	ug/L	2.181	1964182	5.391

Calibration

Analyte	MassCurve Type	Correlation Coefficient
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[> In	115			91.0			
| Sn	120	99.775					
| Sb	121	105.416					
| Sb	123						
[> Lu	175		92.8				
| U	238	98.730					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 8

Report Date/Time: Tuesday, April 13, 2010 13:37:15

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ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 13:39:15

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 9.046

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		179196	179196.267
| Sn	120	-0.042	ug/L	10.523	368	-0.001
| Sb	121	0.141	ug/L	7.956	681	0.003
| Sb	123		ug/L		547	0.003
[> Lu	175		ug/L		383407	383407.402
| U	238	0.006	ug/L	16.687	322	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[> In	115			96.5			
| Sn	120						
| Sb	121						
| Sb	123						
[> Lu	175		97.6				
| 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 13:39:45

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ICPMS#5 - Summary Report

Sample ID: 1202056872

Sample Date/Time: Tuesday, April 13, 2010 13:41:44

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 959112|1|prb

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\1202056872.047

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		183873	183872.913
| Sn	120	0.022	ug/L	42.356	708	0.001
| Sb	121	0.108	ug/L	1.614	556	0.003
| Sb	123		ug/L		434	0.002
[> Lu	175		ug/L		375289	375288.864
| U	238	0.028	ug/L	4.765	1211	0.003

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			99.0		
| Sn	120					
| Sb	121					
| Sb	123					
[> Lu	175		95.6			
| 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: 1202056872

Report Date/Time: Tuesday, April 13, 2010 13:42:13

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ICPMS#5 - Summary Report

Sample ID: 1202056873

Sample Date/Time: Tuesday, April 13, 2010 13:44:12

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 959112|1|prb

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\1202056873.048

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In 115		ug/L		185224	185224.369
|	Sn 120	52.005	ug/L	2.009	272834	1.470
|	Sb 121	55.050	ug/L	1.670	243921	1.317
|	Sb 123		ug/L		189522	1.023
[>	Lu 175		ug/L		394091	394090.713
|	U 238	49.007	ug/L	0.427	2109270	5.352

Calibration

Analyte	MassCurve Type	Correlation Coefficient
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear 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		100.4			
| 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: 1202056873

Report Date/Time: Tuesday, April 13, 2010 13:44:42

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ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 13:59:03

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 8.054

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		178367	178366.510
|	Sn	120	49.196	ug/L	3.624	248523	1.391
|	Sb	121	52.090	ug/L	3.068	222216	1.246
|	Sb	123		ug/L		172734	0.968
[>	Lu	175		ug/L		382366	382366.019
|	U	238	50.712	ug/L	2.659	2117499	5.538

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			96.0			
|	Sn	120	98.392					
|	Sb	121	104.180					
|	Sb	123						
[>	Lu	175			97.4			
|	U	238	101.425					

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 13:59:32

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ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 14:01:32

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 9.055

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		174808	174808.186
|	Sn	120	-0.044	ug/L	6.363	351	-0.001
|	Sb	121	0.149	ug/L	10.566	697	0.004
|	Sb	123		ug/L		526	0.003
[>	Lu	175		ug/L		371771	371770.735
|	U	238	0.005	ug/L	17.914	269	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	In	115		94.1				
|	Sn	120						
|	Sb	121						
|	Sb	123						
[>	Lu	175		94.7				
|	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 14:02:02

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ICPMS#5 - Summary Report

Sample ID: 248199001

Sample Date/Time: Tuesday, April 13, 2010 14:11:28

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959112|1|prb

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\248199001.059

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		195392	195392.018
|	Sn	120	0.878	ug/L	2.824	5483	0.025
|	Sb	121	0.035	ug/L	10.050	248	0.001
|	Sb	123		ug/L		220	0.001
[>	Lu	175		ug/L		406528	406527.738
|	U	238	0.003	ug/L	7.731	232	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	In	115		105.2				
|	Sn	120						
|	Sb	121						
|	Sb	123						
[>	Lu	175		103.5				
|	U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 248199001

Report Date/Time: Tuesday, April 13, 2010 14:11:57

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ICPMS#5 - Summary Report

Sample ID: 1202056874

Sample Date/Time: Tuesday, April 13, 2010 14:13:56

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 959112|1|prb

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\1202056874.060

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		183511	183510.515
| Sn	120	0.010	ug/L	32.678	647	0.000
| Sb	121	0.017	ug/L	23.197	153	0.000
| Sb	123		ug/L		126	0.000
[> Lu	175		ug/L		379926	379925.971
| U	238	0.004	ug/L	4.595	245	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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[> In	115		98.8			
| Sn	120					
| Sb	121					
| Sb	123					
[> Lu	175		96.8			
| U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056874

Report Date/Time: Tuesday, April 13, 2010 14:14:26

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ICPMS#5 - Summary Report

Sample ID: 1202056875

Sample Date/Time: Tuesday, April 13, 2010 14:16:25

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 959112|1|prb

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\1202056875.061

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		184504	184503.801
| Sn	120	50.095	ug/L	2.882	261787	1.416
| Sb	121	206.325	ug/L	1.949	910385	4.935
| Sb	123		ug/L		727167	3.941
[> Lu	175		ug/L		378759	378758.586
| U	238	46.688	ug/L	3.219	1931244	5.099

Calibration

Analyte	MassCurve Type	Correlation Coefficient
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[> In	115		99.3				
| Sn	120						
| Sb	121						
| Sb	123						
[> Lu	175		96.5				
| U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056875

Report Date/Time: Tuesday, April 13, 2010 14:16:55

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ICPMS#5 - Summary Report

Sample ID: 1202056876

Sample Date/Time: Tuesday, April 13, 2010 14:18:54

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 959112|5|prb

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\1202056876.062

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		172777	172777.165
|	Sn	120	0.108	ug/L	4.382	1087	0.003
|	Sb	121	0.133	ug/L	3.068	624	0.003
|	Sb	123		ug/L		511	0.003
[>	Lu	175		ug/L		362453	362453.458
|	U	238	0.029	ug/L	2.132	1225	0.003

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			93.0		
|	Sn	120					
|	Sb	121					
|	Sb	123					
[>	Lu	175			92.3		
|	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: 1202056876

Report Date/Time: Tuesday, April 13, 2010 14:19:24

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ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, April 13, 2010 14:21:23

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 6.063

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		176533	176532.965
|	Sn	120	49.140	ug/L	2.871	245656	1.389
|	Sb	121	51.039	ug/L	2.469	215473	1.221
|	Sb	123		ug/L		169003	0.958
[>	Lu	175		ug/L		378342	378341.641
|	U	238	49.947	ug/L	1.379	2064193	5.455

Calibration

Analyte	MassCurve Type	Correlation Coefficient
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[>	In	115			95.0			
|	Sn	120	98.280					
|	Sb	121	102.078					
|	Sb	123						
[>	Lu	175			96.4			
|	U	238	99.895					

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 7

Sample Date/Time: Tuesday, April 13, 2010 14:23:52

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 7.064

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		170706	170705.939
| Sn	120	-0.042	ug/L	12.514	352	-0.001
| Sb	121	0.155	ug/L	2.783	706	0.004
| Sb	123		ug/L		561	0.003
[> Lu	175		ug/L		367949	367949.069
| U	238	0.006	ug/L	12.517	315	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		91.9				
| Sn	120						
| Sb	121						
| Sb	123						
[> Lu	175		93.7				
| 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: Tuesday, April 13, 2010 14:24:23

Page 1

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 % Recov	Dilution % Di	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 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\lu 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	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#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\lu 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	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	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\lu 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 % Recov	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\lu 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 % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175		100.1				
[	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: 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 % Recov	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

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\lu 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	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	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

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\lu 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

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\lu 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 % Recov	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

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\lu 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 % Recov	Dilution % Dil	Duplicate 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: 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\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 % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			97.5			
[U	238	100.723					

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 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\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 % Recov	Dilution % Dif	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

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 15:59:07

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 8.118

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		351399	351399.441
[	U	238	48.797	ug/L	2.328	1943686	5.531

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			100.3			
[U	238	97.594					

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 9

Sample Date/Time: Tuesday, April 13, 2010 16:00:48

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 9.119

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		348712	348712.118
[	U	238	0.009	ug/L	8.140	686	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Lu	175		99.5			
[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

Sample ID: QC Std 9

Report Date/Time: Tuesday, April 13, 2010 16:01:00

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 16:14:04

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 8.127

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		343618	343618.256
[	U	238	50.399	ug/L	1.318	1963281	5.713

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			98.1			
[U	238	100.798					

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 8

Report Date/Time: Tuesday, April 13, 2010 16:14:15

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 16:15:45

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 9.128

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		351588	351587.835
[	U	238	0.011	ug/L	7.475	771	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 % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		100.3				
[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: QC Std 9

Report Date/Time: Tuesday, April 13, 2010 16:15:57

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202056872

Sample Date/Time: Tuesday, April 13, 2010 16:17:26

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 959112|1|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\1202056872.129

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		360749	360749.021
[	U	238	0.024	ug/L	1.128	1318	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 % Dil	Duplicate Rel. % Difference
[>	Lu	175			102.9		
[	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: 1202056872

Report Date/Time: Tuesday, April 13, 2010 16:17:36

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202056873

Sample Date/Time: Tuesday, April 13, 2010 16:19:05

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 959112|1|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100413\1202056873.130

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		375936	375936.462
|	U	238	44.852	ug/L	1.326	1911724	5.084

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			107.3			
	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: 1202056873

Report Date/Time: Tuesday, April 13, 2010 16:19:16

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 16:29:04

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 8.136

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		347316	347316.293
[	U	238	49.452	ug/L	1.572	1947017	5.605

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			99.1			
[U	238	98.903					

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 8

Report Date/Time: Tuesday, April 13, 2010 16:29:15

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 16:30:45

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 9.137

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		346483	346483.244
[U	238	0.010	ug/L	6.689	699	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 % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[> Lu	175			98.9			
[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 16:30:57

Page 1

ICPMS#5 - Summary Report

Sample ID: 248199001

Sample Date/Time: Tuesday, April 13, 2010 16:37:26

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959112|1|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\248199001.141

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		387257	387256.601
[	U	238	-0.002	ug/L	14.114	259	-0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			110.5		
[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

Sample ID: 248199001

Report Date/Time: Tuesday, April 13, 2010 16:37:37

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202056874

Sample Date/Time: Tuesday, April 13, 2010 16:39:06

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 959112|1|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\1202056874.142

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		365467	365466.732
[	U	238	-0.002	ug/L	15.135	237	-0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			104.3			
[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: 1202056874

Report Date/Time: Tuesday, April 13, 2010 16:39:17

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202056875

Sample Date/Time: Tuesday, April 13, 2010 16:40:47

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 959112|1|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100413\1202056875.143

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		371431	371431.303
[	U	238	45.210	ug/L	1.440	1903928	5.125

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			106.0			
[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: 1202056875

Report Date/Time: Tuesday, April 13, 2010 16:40:58

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202056876

Sample Date/Time: Tuesday, April 13, 2010 16:42:27

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 959112|5|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100413\1202056876.144

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		353171	353171.163
[U	238	0.032	ug/L	0.569	1622	0.004

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[> Lu	175			100.8		
[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: QC Std 6

Sample Date/Time: Tuesday, April 13, 2010 16:44:07

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 6.145

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		351138	351137.585
[	U	238	48.819	ug/L	1.491	1943227	5.534

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			100.2			
[U	238	97.638					

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 7

Sample Date/Time: Tuesday, April 13, 2010 16:45:48

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 7.146

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		352560	352559.902
[U	238	0.011	ug/L	14.005	774	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 % Recov	Dilution % Dil	Duplicate Rel. % Difference
[> Lu	175			100.6		
[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

=====
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\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	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		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	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		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	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		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	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		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 Autosampler Location: 5
 Sample ID: S5.0 Date Collected: 3/2/2010 08:34:13
 Analyst: Data Type: Original

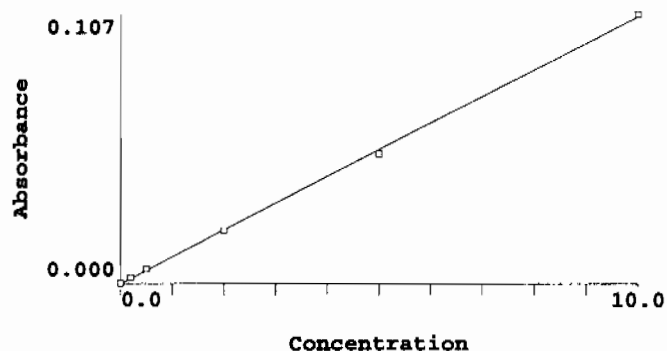
Replicate Data: S5.0

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 Autosampler Location: 6
 Sample ID: S10.0 Date Collected: 3/2/2010 08:36:10
 Analyst: 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 ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak 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 ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak 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 ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak 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 ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak 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	StdConc	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
Sample ID: 1202055823|958575|1
Analyst: JXL

Autosampler Location: 12
Date Collected: 3/2/2010 08:47:41
Data Type: Original

Replicate Data: 1202055823|958575|1

Repl	SampleConc	StdConc	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
Sample ID: 1202055824|958575|1
Analyst: JXL

Autosampler Location: 13
Date Collected: 3/2/2010 08:49:38
Data Type: Original

Replicate Data: 1202055824|958575|1

Repl	SampleConc	StdConc	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
Sample ID: 247037001|958575|1
Analyst: JXL

Autosampler Location: 14
Date Collected: 3/2/2010 08:51:35
Data Type: Original

Replicate Data: 247037001|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	0.0025	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
Sample ID: 1202055825|958575|1
Analyst: JXL

Autosampler Location: 15
Date Collected: 3/2/2010 08:53:30
Data Type: Original

Replicate Data: 1202055825|958575|1

Repl	SampleConc	StdConc	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

Sample ID: 247042004|958575|1

Analyst: JXL

Autosampler Location: 21

Date Collected: 3/2/2010 09:04:58

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

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 3/2/2010 09:06:54

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

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/2/2010 09:08:48

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

Sample ID: 247042005|958575|1

Analyst: JXL

Autosampler Location: 22

Date Collected: 3/2/2010 09:10:43

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

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/2/2010 09:31:51

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdndConc	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

Sample ID: 247036003|958578|1

Analyst: JXL

Autosampler Location: 32

Date Collected: 3/2/2010 09:33:47

Data Type: Original

Replicate Data: 247036003|958578|1

Repl	SampleConc	StdndConc	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

Sample ID: 247036004|958578|1

Analyst: JXL

Autosampler Location: 33

Date Collected: 3/2/2010 09:35:42

Data Type: Original

Replicate Data: 247036004|958578|1

Repl	SampleConc	StdndConc	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

Sample ID: 247036005|958578|1

Analyst: JXL

Autosampler Location: 34

Date Collected: 3/2/2010 09:37:38

Data Type: Original

Replicate Data: 247036005|958578|1

Repl	SampleConc	StdndConc	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	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		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	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		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	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		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	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		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

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/2/2010 10:16:14

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.001	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

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/2/2010 10:18:09

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.031	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

Autosampler Location: 52

Sample ID: 1202055843|958587|1

Date Collected: 3/2/2010 10:20:04

Analyst: JXL

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

Autosampler Location: 53

Sample ID: 1202055844|958587|1

Date Collected: 3/2/2010 10:22:00

Analyst: JXL

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	StdConc	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	StdConc	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	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	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	StdConc	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	StdConc 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

Sample ID: 248044006|958587|1

Analyst: JXL

Autosampler Location: 62

Date Collected: 3/2/2010 10:43:14

Data Type: Original

Replicate Data: 248044006|958587|1

Repl #	SampleConc ug/L	StdConc 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

Sample ID: 248127002|958587|1

Analyst: JXL

Autosampler Location: 63

Date Collected: 3/2/2010 10:45:11

Data Type: Original

Replicate Data: 248127002|958587|1

Repl #	SampleConc ug/L	StdConc 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

Sample ID: 248168006|958587|1

Analyst: JXL

Autosampler Location: 64

Date Collected: 3/2/2010 10:47:07

Data Type: Original

Replicate Data: 248168006|958587|1

Repl #	SampleConc ug/L	StdConc 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

Sample ID: 248169004|958587|1

Analyst: JXL

Autosampler Location: 65

Date Collected: 3/2/2010 10:49:03

Data Type: Original

Replicate Data: 248169004|958587|1

Repl #	SampleConc ug/L	StdConc 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
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

Autosampler Location: 71

Sample ID: 1202055864|958593|5

Date Collected: 3/2/2010 11:00:40

Analyst: JXL

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

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/2/2010 11:02:36

Analyst:

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

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/2/2010 11:04:31

Analyst:

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

Autosampler Location: 72

Sample ID: 247958002|958593|1

Date Collected: 3/2/2010 11:06:25

Analyst: JXL

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	StdConc 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	StdConc 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	StdConc 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	StdConc 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
Sample ID: 1202056576|958951|1
Analyst: JXLAutosampler Location: 97
Date Collected: 3/2/2010 12:02:39
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
Sample ID: 1202056577|958951|5
Analyst: JXLAutosampler Location: 98
Date Collected: 3/2/2010 12:04:36
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
Sample ID: 1202056608|958969|1
Analyst: JXLAutosampler Location: 99
Date Collected: 3/2/2010 12:06:33
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
Sample ID: 1202056609|958969|1
Analyst: JXLAutosampler Location: 100
Date Collected: 3/2/2010 12:08:30
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	StdConc	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	StdConc	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	StdConc	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	StdConc	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	StdConc	BlkCorr	Peak	Peak	Time	Peak
------	------------	---------	---------	------	------	------	------

#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.031	0.031	0.0000	0.0031	0.0006	12:19:15	Yes
2	0.031	0.031	0.0000	0.0031	0.0006	12:19:49	Yes
Mean:	0.031	0.031	0.0000				
SD:	0.000	0.000	0.0000				
%RSD:	0.509	0.509	4.82				

Sequence No.: 122

Autosampler Location: 104

Sample ID: 248162004|958969|1

Date Collected: 3/2/2010 12:20:10

Analyst: JXL

Data Type: Original

Replicate Data: 248162004|958969|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.027	0.027	-0.0000	0.0026	0.0006	12:21:12	Yes
2	0.038	0.038	0.0001	0.0040	0.0007	12:21:46	Yes
Mean:	0.032	0.032	0.0000				
SD:	0.007	0.007	0.0001				
%RSD:	22.70	22.70	167.15				

Sequence No.: 123

Autosampler Location: 105

Sample ID: 248172001|958969|1

Date Collected: 3/2/2010 12:22:07

Analyst: JXL

Data Type: Original

Replicate Data: 248172001|958969|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.029	0.029	0.0000	0.0030	0.0006	12:23:09	Yes
2	0.027	0.027	-0.0000	0.0032	0.0006	12:23:44	Yes
Mean:	0.028	0.028	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	4.633	4.633	358.48				

Sequence No.: 124

Autosampler Location: 106

Sample ID: 248173001|958969|1

Date Collected: 3/2/2010 12:24:05

Analyst: JXL

Data Type: Original

Replicate Data: 248173001|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	0.0025	0.0006	12:25:07	Yes
2	0.029	0.029	0.0000	0.0033	0.0006	12:25:42	Yes
Mean:	0.026	0.026	-0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	14.22	14.22	203.54				

Sequence No.: 125

Autosampler Location: 107

Sample ID: 248188001|958969|1

Date Collected: 3/2/2010 12:26:02

Analyst: JXL

Data Type: Original

Replicate Data: 248188001|958969|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.033	0.033	0.0001	0.0036	0.0007	12:27:04	Yes
2	0.027	0.027	-0.0000	0.0031	0.0006	12:27:39	Yes
Mean:	0.030	0.030	0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	14.89	14.89	243.46				

Sequence No.: 126

Autosampler Location: 108

Sample ID: 248199001|958969|1

Date Collected: 3/2/2010 12:27:59

Analyst: JXL

Data Type: Original

Replicate Data: 248199001|958969|1

Repl	SampleConc	StdConc	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
Sample ID: 248238001|958969|1
Analyst: JXLAutosampler Location: 109
Date Collected: 3/2/2010 12:29:57
Data Type: Original-----
Replicate Data: 248238001|958969|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.027	0.027	-0.0000	0.0030	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
Sample ID: 248238002|958969|1
Analyst: JXLAutosampler Location: 110
Date Collected: 3/2/2010 12:31:54
Data Type: Original-----
Replicate Data: 248238002|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	0.0025	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
Sample ID: 248242001|958969|1
Analyst: JXLAutosampler Location: 111
Date Collected: 3/2/2010 12:33:51
Data Type: Original-----
Replicate Data: 248242001|958969|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.024	0.024	-0.0000	0.0025	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
Sample ID: CCV
Analyst:Autosampler Location: 7
Date Collected: 3/2/2010 12:35:49
Data Type: Original-----
Replicate Data: CCV

Repl	SampleConc	StdConc	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	StdndConc	BlndCorr	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	StdndConc	BlndCorr	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	StdndConc	BlndCorr	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	StdndConc	BlndCorr	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	StdndConc	BlndCorr	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
Sample ID: 1202056520|958922|1
Analyst: JXLAutosampler Location: 121
Date Collected: 3/2/2010 12:57:18
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
Sample ID: CCV
Analyst:Autosampler Location: 7
Date Collected: 3/2/2010 12:59:16
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
Sample ID: CCB
Analyst:Autosampler Location: 8
Date Collected: 3/2/2010 13:01:10
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
Sample ID: 1202056521|958922|1
Analyst: JXLAutosampler Location: 122
Date Collected: 3/2/2010 13:03:05
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

Acid Digestion of Total Recoverable or Dissolved Metals in Surface and Groundwater Samples for Analysis by ICP or ICP-MS

Batch ID:	959108.0	Verified by:					
Analyst:	Francena Armstrong						
Method:	SW846 3005A						
Lab SOP:	GL-MA-E-006 REV# 9						
Instrument:	Sartorius Balance B-001						
		Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
		LCS	1202056867	Metals Spike Mix I	U1100205-01	.25	mL
		LCS	1202056867	Metals Spike Mix II	U1100205-06	.25	mL
		MS	1202056869	Metals Spike Mix I	U1100205-01	.25	mL
		MS	1202056869	Metals Spike Mix II	U1100205-06	.25	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202056866 MB	04-MAR-2010 14:00:00	Water	50	50	1	<2
1202056867 LCS	04-MAR-2010 14:00:00	Water	50	50	1	<2
248108001	04-MAR-2010 14:00:00	Water	50	50	1	<2
248117001	04-MAR-2010 14:00:00	Water	50	50	1	<2
248162001	04-MAR-2010 14:00:00	Water	50	50	1	<2
248162002	04-MAR-2010 14:00:00	Water	50	50	1	<2
248162003	04-MAR-2010 14:00:00	Water	50	50	1	<2
248162004	04-MAR-2010 14:00:00	Water	50	50	1	<2
248172001	04-MAR-2010 14:00:00	Water	50	50	1	<2
248173001	04-MAR-2010 14:00:00	Water	50	50	1	<2
248199001	04-MAR-2010 14:00:00	Water	50	50	1	<2
1202056868 DUP (248199001)	04-MAR-2010 14:00:00	Water	50	50	1	<2
1202056869 MS (248199001)	04-MAR-2010 14:00:00	Water	50	50	1	<2
1202056870 SDILT (248199001)	04-MAR-2010 14:00:00	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:	959110.0	Verified by:	
Analyst:	Francena Armstrong		
Method:	SW846 3005 A		
Lab SOP:	GL-MA-E-006 REV# 9		
Instrument:	Sartorius Balance B-001		
Type	Sample Id	Description	Serial Number
LCS	1202056873	ICP-MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution A).	U1100205-A
LCS	1202056873	MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution B).	U1100205-B
MS	1202056875	ICP-MS DOE liquid Spike Solution A	U1090930-A
MS	1202056875	ICP-MS DOE Liquid Spike Solution B	U1090930-B

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202056872 MB	04-MAR-2010 14:00:00	Water	50	50	1	<2
1202056873 LCS	04-MAR-2010 14:00:00	Water	50	50	1	<2
248108001	04-MAR-2010 14:00:00	Water	50	50	1	<2
248117001	04-MAR-2010 14:00:00	Water	50	50	1	<2
248162001	04-MAR-2010 14:00:00	Water	50	50	1	<2
248162002	04-MAR-2010 14:00:00	Water	50	50	1	<2
248162003	04-MAR-2010 14:00:00	Water	50	50	1	<2
248162004	04-MAR-2010 14:00:00	Water	50	50	1	<2
248172001	04-MAR-2010 14:00:00	Water	50	50	1	<2
248173001	04-MAR-2010 14:00:00	Water	50	50	1	<2
248199001	04-MAR-2010 14:00:00	Water	50	50	1	<2
1202056874 DUP (248199001)	04-MAR-2010 14:00:00	Water	50	50	1	<2
1202056875 MS (248199001)	04-MAR-2010 14:00:00	Water	50	50	1	<2
1202056876 SDILT (248199001)	04-MAR-2010 14:00:00	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

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: _____

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202056609	Mercury working intermediate standard for LCS/MS	WHG100301-13	.2	mL
MS	1202056611	Mercury working intermediate standard for LCS/MS	WHG100301-13	.2	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202056608 MB	01-MAR-2010 12:20:00	Water	20	20	1	<2
1202056609 LCS	01-MAR-2010 12:20:00	Water	20	20	1	<2
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 SDIL-T (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
1274391-1	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	

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

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: UI100205-01 **Opened:** 05-FEB-10 **Lot Number :** 1018514
Name: METALSPIKE-1 **Received:** 05-FEB-10
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix I
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 ug/mL	Arsenic	100 ug/mL
Barium	100 ug/mL	Beryllium	100 ug/mL
Boron	100 ug/mL	Cadmium	100 ug/mL
Calcium	1000 ug/mL	Cobalt	100 ug/mL
Iron	1000 ug/mL	Lead	100 ug/mL
Magnesium	1000 ug/mL	Phosphorous	100 ug/mL
Potassium	1000 ug/mL	Silver	100 ug/mL
Sodium	1000 ug/mL	Strontium	100 ug/mL

Standard Logbook

Serial ID: UI100205-06 **Opened:** 05-FEB-10 **Lot Number :** 1018515
Name: METALSPIKE-2 **Received:** 05-FEB-10
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix II
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 ug/mL	Chromium	100 ug/mL
Copper	100 ug/mL	Manganese	100 ug/mL
Molybdenum	100 ug/mL	Nickel	100 ug/mL
Selenium	100 ug/mL	Silica	2141 ug/mL
Silicon	1000 ug/mL	Sulfur	1000 ug/mL
Thallium	100 ug/mL	Tin	100 ug/mL
Titanium	100 ug/mL	Uranium	100 ug/mL
Uranium-235	.72 ug/mL	Uranium-238	99.28 ug/mL
Vanadium	100 ug/mL	Zinc	100 ug/mL

Serial ID: UI100205-A **Opened:** 05-FEB-10 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 05-FEB-10 **Lot Number :** 1018516
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
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

Standard Logbook

Serial ID: UI100205-B **Opened:** 05-FEB-10 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 05-FEB-10 **Lot Number :** 1018516
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
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: UI100310-48 **Opened:** 19-MAR-10 **Amount :** 1000 mL
Name: Trace ICP ICESA **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: UI100310-49.11 **Opened:** 29-MAR-10 **Amount :** 100 ml
Name: Trace ICP ICESAB **Received:** 12-MAR-10 **Catalog Number :** 160066-04
Type: Source Material **Expires:** 30-MAR-10 **Lot Number :** 1019142
Employee: Helen Camello **Solvent :** 3% HCl + 1% HNO3
Supplier: o2si
Description: Trace ICP Interferent Check Standard AB
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Antimony	500 ug/L
Arsenic	500 ug/L	Barium	500 ug/L
Beryllium	250 ug/L	Boron	500 ug/L
Cadmium	500 ug/L	Calcium	500000 ug/L
Chromium	500 ug/L	Cobalt	500 ug/L
Copper	500 ug/L	Iron	200000 ug/L
Lead	500 ug/L	Magnesium	500000 ug/L
Manganese	500 ug/L	Molybdenum	500 ug/L
Nickel	500 ug/L	Phosphorous	2500 ug/L
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Strontium	500 ug/L	Sulfur	2500 ug/L
Thallium	500 ug/L	Tin	500 ug/L
Titanium	500 ug/L	Uranium	500 ug/L
Vanadium	500 ug/L	Zinc	500 ug/L

Serial ID: UI100317-06 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master A **Received:** 17-MAR-10 **Catalog Number :** 160055-01
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019161
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV SOLN A - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2020 mg/L	Calcium	2000 mg/L
Iron	2000 mg/L	Magnesium	2000 mg/L
Phosphorous	2000 mg/L	Potassium	2000 mg/L
Sodium	2000 mg/L		

Serial ID: UI100317-07 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master B **Received:** 17-MAR-10 **Catalog Number :** 160054-02
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019162
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln B - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	20 mg/L	Barium	20 mg/L
Beryllium	20 mg/L	Boron	40 mg/L
Cadmium	20 mg/L	Chromium	20 mg/L
Cobalt	20 mg/L	Copper	20 mg/L
Lead	20 mg/L	Lithium	20 mg/L
Manganese	20 mg/L	Nickel	20 mg/L
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

Standard Logbook

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
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Vanadium	10000 ug/L	Zinc	15000 ug/L

Serial ID: UI100325-41 **Opened:** 25-MAR-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 25-MAR-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 25-MAR-11 **Lot Number :** 1019348
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION B
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Calcium	500000 ug/L
Iron	500000 ug/L	Magnesium	500000 ug/L
Sodium	500000 ug/L	Uranium	15000 ug/L

Serial ID: UI100405-12 **Opened:** 05-APR-10 **Amount :** 250 mL
Name: ICP-MS ICSAB Master B **Received:** 05-APR-10 **Catalog Number :** 160033-02
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019466
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	2 mg/L	Barium	2 mg/L
Beryllium	2 mg/L	Boron	2 mg/L
Cadmium	2 mg/L	Chromium	2 mg/L
Cobalt	2 mg/L	Copper	2 mg/L
Lead	2 mg/L	Lithium	2 mg/L
Manganese	2 mg/L	Nickel	2 mg/L
Selenium	2 mg/L	Strontium	2 mg/L
Thallium	2 mg/L	Thorium	2 mg/L
Uranium	2 mg/L	Vanadium	2 mg/L
Zinc	2 mg/L		

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
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Standard Logbook

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
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

Standard Logbook

Serial ID: UMS100226-01 **Opened:** 26-FEB-10 **Amount :** 250 mL
Name: ICPMSCaSPIKEB **Received:** 26-FEB-10 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-104JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	10 mg/L	Barium	10 mg/L
Beryllium	10 mg/L	Boron	20 mg/L
Cadmium	10 mg/L	Chromium	10 mg/L
Cobalt	10 mg/L	Copper	10 mg/L
Lead	10 mg/L	Lithium	10 mg/L
Manganese	10 mg/L	Nickel	10 mg/L
Selenium	10 mg/L	Silver	10 mg/L
Strontium	10 mg/L	Thallium	10 mg/L
Thorium	10 mg/L	Uranium	10 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UMS100226-02 **Opened:** 26-FEB-10 **Catalog Number :** ZGEL-102-250
Name: ICPMSCaSPIKEA **Received:** 26-FEB-10 **Lot Number :** 21-103JB
Type: Source Material **Expires:** 26-FEB-11
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Phosphorous	1000 mg/L	Potassium	1000 mg/L
Sodium	1000 mg/L		

Serial ID: UMS100226-03 **Opened:** 26-FEB-10 **Amount :** 250 ml
Name: ICPMSCaSPIKEC **Received:** 26-FEB-10 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-102JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10 mg/L	Molybdenum	10 mg/L
Tin	10 mg/L	Titanium	10 mg/L
Zirconium	10 mg/L		

Standard Logbook

Serial ID: 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 + TypeI H2O
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 1st Source 200 ug/L
Comments: Prepare fresh daily

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: 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.	Aliquot	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.	Aliquot	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.	Aliquot	Final Vol.	Final Conc.
IHG100301-01	Mercury	200 ug/L	50 uL	20 mL	.5 ug/L

Standard Logbook

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

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

Standard Logbook

Serial ID: WHG100301-13 **Opened:** 01-MAR-10 **Pipet Id :** Hg1289245
Name: MHGLIQLCSMSSPIKE **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

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: WI100329-42 **Opened:** 29-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 30-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1293083
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.1 PPM CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100329-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100329-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100329-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100329-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100329-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100329-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100329-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100329-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100329-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100329-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100329-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100329-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100329-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100329-43 **Opened:** 29-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 30-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1293083
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	5 mL	1000 mL	5000 UG/L
UI091015-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Selenium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Strontium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Thallium	200 mg/L	2.5 mL	1000 mL	500 UG/L
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-41	Sulfur	400 mg/L	2.5 mL	1000 mL	1000 UG/L
UI091102-41	Tin	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Titanium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Serial ID: WI100329-44 **Opened:** 29-MAR-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 30-MAR-10 **Solvent :** 3%HCL and 1 %HNO3-1293083
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
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: WI100329-45 **Opened:** 29-MAR-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 30-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1293083
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP S-10 CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	10 mL	500 mL	20000 UG/L
UI090422-40	Aluminum	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Calcium	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Iron	2000 mg/L	5 mL	500 mL	20000 UG/L
UI090422-40	Magnesium	5000 mg/L	5 mL	500 mL	50000 UG/L

Serial ID: WI100329-46 **Opened:** 29-MAR-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 30-MAR-10 **Solvent :** 3%HCL AND 1%HNO3-1293083
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
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: WI100329-47 **Opened:** 29-MAR-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809
Type: Working **Expires:** 30-MAR-10 **Solvent :** 3%HCL &1%HNO3-1293083
Employee: Helen Camello
Supplier: O2si
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: 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%HNO3/1%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.	Allquot	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.	Allquot	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

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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

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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 **Expres:** 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.	Allquot	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

General Chemistry Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2122**

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
248198001	RE36-10-7405
248198002	RE36-10-7403
248198003	RE36-10-7406
248198004	RE36-10-7404
248198005	RE36-10-7516
248198006	RE36-10-7426
248198007	RE36-10-7432
248198008	RE36-10-7431
248198009	RE36-10-7434
248198010	RE36-10-7425
248198011	RE36-10-7429
248198012	RE36-10-7433
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), 248198001 (RE36-10-7405), 248198002 (RE36-10-7403), 248198003 (RE36-10-7406), 248198004 (RE36-10-7404), 248198005 (RE36-10-7516), 248198006 (RE36-10-7426), 248198007 (RE36-10-7432), 248198008 (RE36-10-7431), 248198009 (RE36-10-7434), 248198010 (RE36-10-7425), 248198011 (RE36-10-7429) and 248198012 (RE36-10-7433).

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: 959210 **Method:** SW9012A Cyanide and Total

Prep Batch : 959209 **Method:** SSW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
248198001	RE36-10-7405
248198002	RE36-10-7403
248198003	RE36-10-7406
248198004	RE36-10-7404
248198005	RE36-10-7516
248198006	RE36-10-7426
248198007	RE36-10-7432
248198008	RE36-10-7431
248198009	RE36-10-7434
248198010	RE36-10-7425
248198011	RE36-10-7429
248198012	RE36-10-7433
1202057137	Method Blank (MB)
1202057138	248016004(RE46-10-13331) Sample Duplicate (DUP)
1202057139	248025003(CAPU-10-12548) Sample Duplicate (DUP)
1202057140	248016004(RE46-10-13331) Matrix Spike (MS)
1202057141	248025003(CAPU-10-12548) Matrix Spike (MS)
1202057142	248016004(RE46-10-13331) Matrix Spike Duplicate (MSD)
1202057143	248025003(CAPU-10-12548) Matrix Spike Duplicate (MSD)
1202057144	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: 248016004 (RE46-10-13331) and 248025003 (CAPU-10-12548).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recoveries for this sample set were within the required acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this sample set were within the required acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPDs between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample 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: 1202057144 (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: 966200 **Method:** EPA 300.0 Nitrate in Soil

Prep Batch : 966193 **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
248198001	RE36-10-7405
248198002	RE36-10-7403
248198003	RE36-10-7406
248198004	RE36-10-7404
248198005	RE36-10-7516
248198006	RE36-10-7426
248198007	RE36-10-7432
248198008	RE36-10-7431
248198009	RE36-10-7434
248198010	RE36-10-7425
248198011	RE36-10-7429
248198012	RE36-10-7433
1202073473	Method Blank (MB)
1202073474	248198001(RE36-10-7405) Sample Duplicate (DUP)
1202073475	248198012(RE36-10-7433) Sample Duplicate (DUP)
1202073476	248198001(RE36-10-7405) Matrix Spike (MS)
1202073477	248198012(RE36-10-7433) Matrix Spike (MS)
1202073478	248198001(RE36-10-7405) Matrix Spike Duplicate (MSD)
1202073479	248198012(RE36-10-7433) Matrix Spike Duplicate (MSD)
1202073480	Laboratory Control Sample (LCS)

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

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-086 REV# 17.

Preparation/Analytical Method Verification

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

Calibration Information

The Ion Chromatography analysis was performed on a Dionex ICS-3000 Ion Chromatograph.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Y Intercept Rule

The absolute value of the intercept is less than 3 times the MDL.

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

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

The following samples were selected for QC analysis: 248198001 (RE36-10-7405) and 248198012 (RE36-10-7433).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recoveries for this sample set were within the required acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this sample set were within the required acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPDs between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

Samples was initially analyzed within holding; however, the holding times had expired prior to reanalysis. 1202073476 (RE36-10-7405) and 1202073478 (RE36-10-7405).

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-analysis

The following samples were reanalyzed due to MS failure, wrong sample injected: 1202073477 (RE36-10-7433) and 1202073479 (RE36-10-7433).

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

The following DER was generated for this SDG: 809537 1202073477 (RE36-10-7433) and 1202073479 (RE36-10-7433).

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:

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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-Coleman Date: 3-25-10

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: 10-2122 GEL Work Order: 248198

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

Deborah Elmore 3-25-10

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 25, 2010

Client SDG: 10-2122

Client Sample ID: RE36-10-7405
Sample ID: 248198001
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 17.5%

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 Tcmp 21.1C	H	7.45	0.010	0.100	SU	1	TXT1	03/02/10	1545	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		980	80.8	297	ug/kg	1	AXC2	03/09/10	1411	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.61	0.364	1.21	mg/kg	1	GXM	03/22/10	1559	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

The following Analytical Methods were performed

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

GEL LABORATORIES LLC

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Certificate of Analysis

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

Report Date: March 25, 2010

Client SDG: 10-2122

Client Sample ID: RE36-10-7403
Sample ID: 248198002
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 14.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.9C	H	7.21	0.010	0.100	SU	1	TXT1	03/02/10	1548	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	82.6	79.2	291	ug/kg	1	AXC2	03/09/10	1411	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		15.5	0.349	1.16	mg/kg	1	GXM	03/22/10	1759	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

The following Analytical Methods were performed

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

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: March 25, 2010

Client SDG: 10-2122

Client Sample ID: RE36-10-7406
Sample ID: 248198003
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 10.4%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.6C	H	6.57	0.010	0.100	SU	1	TXT1	03/02/10	1551	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	190	73.0	268	ug/kg	1	AXC2	03/09/10	1412	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.335	1.12	mg/kg	1	GXM	03/22/10	1828	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

The following Analytical Methods were performed

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

GEL LABORATORIES LLC

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Certificate of Analysis

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

Report Date: March 25, 2010

Client SDG: 10-2122

Client Sample ID: RE36-10-7404
Sample ID: 248198004
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 11.9%

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	7.18	0.010	0.100	SU	1	TXT1	03/02/10	1555	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	70.2	258	ug/kg	1	AXC2	03/09/10	1413	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		17.7	0.341	1.14	mg/kg	1	GXM	03/22/10	1858	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

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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Report Date: March 25, 2010

Client SDG: 10-2122

Client Sample ID: RE36-10-7516
Sample ID: 248198005
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 18.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.9C	H	7.41	0.010	0.100	SU	1	TXT1	03/02/10	1557	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		973	78.3	288	ug/kg	1	AXC2	03/09/10	1504	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.39	0.366	1.22	mg/kg	1	GXM	03/22/10	1928	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

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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Report Date: March 25, 2010

Client SDG: 10-2122

Client Sample ID: RE36-10-7426
Sample ID: 248198006
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 12.5%

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 22.0C	H	6.23	0.010	0.100	SU	1	TXT1	03/02/10	1559	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		428	70.6	260	ug/kg	1	AXC2	03/09/10	1505	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.343	1.14	mg/kg	1	GXM	03/22/10	2058	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

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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Report Date: March 25, 2010

Client SDG: 10-2122

Client Sample ID: RE36-10-7432
Sample ID: 248198007
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 13.6%

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	8.03	0.010	0.100	SU	1	TXT1	03/02/10	1600	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	78.7	290	ug/kg	1	AXC2	03/09/10	1505	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.347	1.16	mg/kg	1	GXM	03/22/10	2128	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

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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Project: LANL ER Project

Report Date: March 25, 2010

Client SDG: 10-2122

Client Sample ID: RE36-10-7431
Sample ID: 248198008
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 23%

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	7.23	0.010	0.100	SU	1	TXT1	03/02/10	1602	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	88.4	325	ug/kg	1	AXC2	03/09/10	1506	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.390	1.30	mg/kg	1	GXM	03/22/10	2158	966200	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	MARI	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

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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Project: LANL ER Project

Report Date: March 25, 2010

Client SDG: 10-2122

Client Sample ID: RE36-10-7434
Sample ID: 248198009
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 22.9%

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 21.8C	H	6.41	0.010	0.100	SU	1	TXT1	03/02/10	1608	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		534	88.2	324	ug/kg	1	AXC2	03/09/10	1507	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.84	0.389	1.30	mg/kg	1	GXM	03/22/10	2228	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

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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Project: LANL ER Project

Report Date: March 25, 2010

Client SDG: 10-2122

Client Sample ID: RE36-10-7425
Sample ID: 248198010
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 22.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.9C	H	7.29	0.010	0.100	SU	1	TXT1	03/02/10	1610	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		400	80.9	297	ug/kg	1	AXC2	03/09/10	1508	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		29.9	0.385	1.28	mg/kg	1	GXM	03/22/10	2258	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

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: 10-2122

Client Sample ID: RE36-10-7429
Sample ID: 248198011
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 29.7%

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 21.7C	H	7.07	0.010	0.100	SU	1	TXT1	03/02/10	1611	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		346	93.0	342	ug/kg	1	AXC2	03/09/10	1509	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		4.09	0.427	1.42	mg/kg	1	GXM	03/22/10	2327	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

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: 10-2122

Client Sample ID: RE36-10-7433
Sample ID: 248198012
Matrix: R
Collect Date: 23-FEB-10 12:00
Receive Date: 26-FEB-10
Collector: Client
Moisture: 28.6%

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 21.8C	H	6.64	0.010	0.100	SU	1	TXT1	03/02/10	1613	959970	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		577	89.9	330	ug/kg	1	AXC2	03/09/10	1510	959210	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.04	0.420	1.40	mg/kg	1	GXM	03/22/10	2357	966200	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	03/21/10	1100	966193
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/09/10	1121	959209

The following Analytical Methods were performed

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

Quality Control Summary

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QC Summary

Report Date: March 25, 2010

Page 1 of 3

Los Alamos National Laboratory
PO Box 1663
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Los Alamos, New Mexico

Contact: Ms. Joylene Valdez

Workorder: 248198

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	959210										
QC1202057138	248016004	DUP									
Cyanide, Total		U	ND	U	ND	ug/kg	N/A		AXC2	03/09/10	13:57
QC1202057139	248025003	DUP									
Cyanide, Total		U	ND	U	ND	ug/kg	N/A			03/09/10	14:01
QC1202057144	LCS										
Cyanide, Total	67900				60000	ug/kg	88.4	(32%-157%)		03/09/10	13:55
QC1202057137	MB										
Cyanide, Total				U	250	ug/kg				03/09/10	13:54
QC1202057140	248016004	MS									
Cyanide, Total	4760	U	ND		4540	ug/kg	95.3	(26%-158%)		03/09/10	13:58
QC1202057141	248025003	MS									
Cyanide, Total	4670	U	ND		5090	ug/kg	109	(26%-158%)		03/09/10	14:05
QC1202057142	248016004	MSD									
Cyanide, Total	4590	U	ND		3870	ug/kg	15.8	84.3	(0%-30%)	03/09/10	13:59
QC1202057143	248025003	MSD									
Cyanide, Total	4840	U	ND		5370	ug/kg	5.39	111	(0%-30%)	03/09/10	14:06
Ion Chromatography											
Batch	966200										
QC1202073474	248198001	DUP									
Nitrate-N			1.61		1.62	mg/kg	0.751 ^	(+/-1.21)	GXM3	03/22/10	16:29
QC1202073475	248198012	DUP									
Nitrate-N			2.04		2.06	mg/kg	1.02 ^	(+/-1.40)		03/23/10	00:27
QC1202073480	LCS										
Nitrate-N	50.0				45.9	mg/kg	91.7	(90%-110%)		03/22/10	15:29
QC1202073473	MB										
Nitrate-N				U	1.00	mg/kg				03/22/10	14:59
QC1202073476	248198001	MS									
Nitrate-N	60.6		1.61		58.9	mg/kg	94.6	(90%-110%)		03/22/10	16:59
QC1202073477	248198012	MS									
Nitrate-N	70.0		2.04	H	67.6	mg/kg	93.6	(90%-110%)		03/23/10	20:33
QC1202073478	248198001	MSD									
Nitrate-N	60.6		1.61		58.9	mg/kg	0.0762	94.5	(0%-20%)	03/22/10	17:29
QC1202073479	248198012	MSD									
Nitrate-N	70.0		2.04	H	68.2	mg/kg	0.949	94.5	(0%-20%)	03/23/10	21:03

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QC Summary

Workorder: 248198

Page 2 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

RER is calculated at the 95% confidence level (2-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- UJ Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y QC Samples were not spiked with this compound
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- h Preparation or preservation holding time was exceeded

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QC Summary

Workorder: 248198

Page 3 of 3

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Instrument QC Data Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 25-MAR-2010 11:06

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-2122

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	09-MAR-2010 12:07:51	OM_3-9-2010_11-57-23	149	150	99.3	(90%-110%)	Yes
CCV	09-MAR-2010 13:49:29	OM_3-9-2010_11-57-23	104	100	104	(90%-110%)	Yes
CCV	09-MAR-2010 14:01:59	OM_3-9-2010_11-57-23	104	100	104	(90%-110%)	Yes
CCV	09-MAR-2010 14:14:37	OM_3-9-2010_11-57-23	103	100	103	(90%-110%)	Yes
CCV	09-MAR-2010 15:00:31	OM_3-9-2010_14-57-11	103	100	103	(90%-110%)	Yes
CCV	09-MAR-2010 15:13:07	OM_3-9-2010_14-57-11	107	100	107	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	09-MAR-2010 12:09:41	OM_3-9-2010_11-57-23	1.3	10	Yes
CCB	09-MAR-2010 13:51:19	OM_3-9-2010_11-57-23	-2.64	10	Yes
CCB	09-MAR-2010 14:03:49	OM_3-9-2010_11-57-23	-2.62	10	Yes
CCB	09-MAR-2010 14:16:28	OM_3-9-2010_11-57-23	-2.62	10	Yes
CCB	09-MAR-2010 15:02:22	OM_3-9-2010_14-57-11	-3.2	10	Yes
CCB	09-MAR-2010 15:14:59	OM_3-9-2010_14-57-11	-3.21	10	Yes

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 25-MAR-2010 11:06

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-2122

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	22-MAR-2010 13:59:00	100321	7.5857	7.5	101	(90%-110%)	Yes
CCV	22-MAR-2010 19:58:00	100321	4.5891	5	91.8	(90%-110%)	Yes
CCV	23-MAR-2010 01:57:00	100321	7.5926	7.5	101	(90%-110%)	Yes
ICV	23-MAR-2010 14:34:00	100323	4.8331	5	96.7	(90%-110%)	Yes
CCV	23-MAR-2010 19:33:00	100323	7.5711	7.5	101	(90%-110%)	Yes
CCV	23-MAR-2010 23:02:00	100323	4.5743	5	91.5	(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	22-MAR-2010 14:29:00	100321	0	0.1	Yes
CCB	22-MAR-2010 20:28:00	100321	0	0.1	Yes
CCB	23-MAR-2010 02:27:00	100321	0	0.1	Yes
ICB	23-MAR-2010 15:04:00	100323	0	0.1	Yes
CCB	23-MAR-2010 20:03:00	100323	0	0.1	Yes
CCB	23-MAR-2010 23:32:00	100323	0	0.1	Yes

Cyanide, Total

Prep Logbook

Cyanide Sample Distillation

Batch ID: 959209.0	Verified by:	Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
Analyst: Alan Stanley		LCS	1202057144	Total Cyanide Solid LCS	URF1200957-01	.25	g
Method: SW846 9010B Prep		MS	1202057140	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	1202057141	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
Instrument: Sartorius Balance B-001		MSD	1202057142	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
		MSD	1202057143	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
1202057137 MB	09-MAR-2010 11:21:00	Soil	0.5	25	50	>12
1202057144 LCS	09-MAR-2010 11:21:00	Soil	0.25	25	100	>12
248016004	09-MAR-2010 11:21:00	Soil	0.54	25	46.2963	>12
1202057138 DUP (248016004)	09-MAR-2010 11:21:00	Soil	0.55	25	45.45455	>12
1202057140 MS (248016004)	09-MAR-2010 11:21:00	Soil	0.55	25	45.45455	>12
1202057142 MSD (248016004)	09-MAR-2010 11:21:00	Soil	0.57	25	43.85965	>12
248025003	09-MAR-2010 11:21:00	Soil	0.51	25	49.01961	>12
1202057139 DUP (248025003)	09-MAR-2010 11:21:00	Soil	0.57	25	43.85965	>12
1202057141 MS (248025003)	09-MAR-2010 11:21:00	Soil	0.57	25	43.85965	>12
1202057143 MSD (248025003)	09-MAR-2010 11:21:00	Soil	0.55	25	45.45455	>12
248025005	09-MAR-2010 11:21:00	Soil	0.56	25	44.64286	>12
248025007	09-MAR-2010 11:21:00	Soil	0.57	25	43.85965	>12
248159001	09-MAR-2010 11:21:00	Soil	0.52	25	48.07692	>12
248159002	09-MAR-2010 11:21:00	Soil	0.53	25	47.16981	>12
248198001	09-MAR-2010 11:21:00	Soil	0.51	25	49.01961	>12
248198002	09-MAR-2010 11:21:00	Soil	0.5	25	50	>12
248198003	09-MAR-2010 11:21:00	Soil	0.52	25	48.07692	>12
248198004	09-MAR-2010 11:21:00	Soil	0.55	25	45.45455	>12
248198005	09-MAR-2010 11:21:00	Soil	0.53	25	47.16981	>12
248198006	09-MAR-2010 11:21:00	Soil	0.55	25	45.45455	>12
248198007	09-MAR-2010 11:21:00	Soil	0.5	25	50	>12

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Batch ID: 959209.0
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	1202057144	Total Cyanide Solid LCS	URF1200957-01	.25	g
MS	1202057140	Secondary source standard for CN and phenol. Used to spike LCS.	URF1269274-02	.025	mL
MS	1202057141	MS, ICV Secondary source standard for CN and phenol. Used to spike LCS.	URF1269274-02	.025	mL
MSD	1202057142	MS, ICV Secondary source standard for CN and phenol. Used to spike LCS.	URF1269274-02	.025	mL
MSD	1202057143	MS, ICV Secondary source standard for CN and phenol. Used to spike LCS.	URF1269274-02	.025	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
248198008	09-MAR-2010 11:21:00	Soil	0.5	25	50	>12
248198009	09-MAR-2010 11:21:00	Soil	0.5	25	50	>12
248198010	09-MAR-2010 11:21:00	Soil	0.54	25	46.2963	>12
248198011	09-MAR-2010 11:21:00	Soil	0.52	25	48.07692	>12
248198012	09-MAR-2010 11:21:00	Soil	0.53	25	47.16981	>12
248202001	09-MAR-2010 11:21:00	Soil	0.5	25	50	>12
248202002	09-MAR-2010 11:21:00	Soil	0.57	25	43.85965	>12

Comments:

Reagent/Solvent Lot ID	Description	Amount
1260189-C	50% H2SO4 CN Prep	2.5 mL
1270661-C	Bismuth Nitrate Solution	1.25 mL
1270663-C	0.8N H3NO3S	1.25 mL
1270669-C	51% MgCl2 Soln	1 mL
1273851-C	0.25N Sodium Hydroxide Solution	25 mL
WCN100308-07	150 ppb CN Distilled ICV Standard	.0375 mL

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	3/9/2010 12:00:41	OM_3-9-2010_11-57-23
150 ppb		1	axc2	3/9/2010 12:01:33	OM_3-9-2010_11-57-23
100 ppb		1	axc2	3/9/2010 12:02:26	OM_3-9-2010_11-57-23
50 ppb		1	axc2	3/9/2010 12:03:19	OM_3-9-2010_11-57-23
10 ppb		1	axc2	3/9/2010 12:04:12	OM_3-9-2010_11-57-23
CRDL 5.0 ppb		1	axc2	3/9/2010 12:05:06	OM_3-9-2010_11-57-23
ICAL-00		1	axc2	3/9/2010 12:06:00	OM_3-9-2010_11-57-23
ICV		1	axc2	3/9/2010 12:07:51	OM_3-9-2010_11-57-23
ICB		1	axc2	3/9/2010 12:09:41	OM_3-9-2010_11-57-23
CRDL		1	axc2	3/9/2010 12:11:31	OM_3-9-2010_11-57-23
1202064105	962251	1	axc2	3/9/2010 12:13:20	OM_3-9-2010_11-57-23
1202064112	962251	25	axc2	3/9/2010 12:14:14	OM_3-9-2010_11-57-23
248635001	962251	1	axc2	3/9/2010 12:15:07	OM_3-9-2010_11-57-23
1202064106	962251	1	axc2	3/9/2010 12:16:00	OM_3-9-2010_11-57-23
1202064108	962251	1	axc2	3/9/2010 12:16:53	OM_3-9-2010_11-57-23
1202064110*	962251	1	axc2	3/9/2010 12:17:46	OM_3-9-2010_11-57-23
248635002	962251	1	axc2	3/9/2010 12:18:38	OM_3-9-2010_11-57-23
1202064107	962251	1	axc2	3/9/2010 12:19:31	OM_3-9-2010_11-57-23
1202064109	962251	1	axc2	3/9/2010 12:20:24	OM_3-9-2010_11-57-23
1202064111	962251	1	axc2	3/9/2010 12:21:16	OM_3-9-2010_11-57-23
CCV		1	axc2	3/9/2010 12:22:08	OM_3-9-2010_11-57-23
CCB		1	axc2	3/9/2010 12:23:58	OM_3-9-2010_11-57-23
248635003	962251	1	axc2	3/9/2010 12:25:47	OM_3-9-2010_11-57-23
248635004	962251	1	axc2	3/9/2010 12:26:39	OM_3-9-2010_11-57-23
1202064110	962251	1	axc2	3/9/2010 12:27:31	OM_3-9-2010_11-57-23
248635005	962251	1	axc2	3/9/2010 12:28:23	OM_3-9-2010_11-57-23
248635006	962251	1	axc2	3/9/2010 12:29:15	OM_3-9-2010_11-57-23
248635007	962251	1	axc2	3/9/2010 12:30:07	OM_3-9-2010_11-57-23
248635008	962251	1	axc2	3/9/2010 12:31:00	OM_3-9-2010_11-57-23
248635009	962251	1	axc2	3/9/2010 12:31:54	OM_3-9-2010_11-57-23
248635010	962251	1	axc2	3/9/2010 12:32:48	OM_3-9-2010_11-57-23
248635011	962251	1	axc2	3/9/2010 12:33:41	OM_3-9-2010_11-57-23
CCV		1	axc2	3/9/2010 12:34:33	OM_3-9-2010_11-57-23
CCB		1	axc2	3/9/2010 12:36:23	OM_3-9-2010_11-57-23
248635012	962251	1	axc2	3/9/2010 12:38:13	OM_3-9-2010_11-57-23
248635013	962251	1	axc2	3/9/2010 12:39:06	OM_3-9-2010_11-57-23
248635014	962251	1	axc2	3/9/2010 12:39:59	OM_3-9-2010_11-57-23
248658001	962251	1	axc2	3/9/2010 12:40:52	OM_3-9-2010_11-57-23
248658002	962251	1	axc2	3/9/2010 12:41:45	OM_3-9-2010_11-57-23
248658003	962251	1	axc2	3/9/2010 12:42:37	OM_3-9-2010_11-57-23
248658004	962251	1	axc2	3/9/2010 12:43:29	OM_3-9-2010_11-57-23
248658005	962251	1	axc2	3/9/2010 12:44:21	OM_3-9-2010_11-57-23
248833001	962251	1	axc2	3/9/2010 12:45:13	OM_3-9-2010_11-57-23
1202057121	959206	1	axc2	3/9/2010 12:46:05	OM_3-9-2010_11-57-23
CCV		1	axc2	3/9/2010 12:46:58	OM_3-9-2010_11-57-23
CCB		1	axc2	3/9/2010 12:48:48	OM_3-9-2010_11-57-23
1202057128	959206	25	axc2	3/9/2010 12:50:36	OM_3-9-2010_11-57-23
248150001	959206	1	axc2	3/9/2010 12:51:30	OM_3-9-2010_11-57-23
1202057123	959206	1	axc2	3/9/2010 12:52:24	OM_3-9-2010_11-57-23
1202057125	959206	1	axc2	3/9/2010 12:53:18	OM_3-9-2010_11-57-23
1202057127	959206	1	axc2	3/9/2010 12:54:11	OM_3-9-2010_11-57-23
248150002	959206	1	axc2	3/9/2010 12:55:04	OM_3-9-2010_11-57-23
248150003	959206	1	axc2	3/9/2010 12:55:57	OM_3-9-2010_11-57-23
1202057122	959206	1	axc2	3/9/2010 12:56:50	OM_3-9-2010_11-57-23
1202057124	959206	1	axc2	3/9/2010 12:57:43	OM_3-9-2010_11-57-23
1202057126	959206	1	axc2	3/9/2010 12:58:36	OM_3-9-2010_11-57-23
CCV		1	axc2	3/9/2010 12:59:29	OM_3-9-2010_11-57-23
CCB		1	axc2	3/9/2010 13:01:19	OM_3-9-2010_11-57-23

248150004	959206	1	axc2	3/9/2010	13:03:08	OM_3-9-2010_11-57-23
248233001	959206	1	axc2	3/9/2010	13:04:00	OM_3-9-2010_11-57-23
248233002	959206	1	axc2	3/9/2010	13:04:53	OM_3-9-2010_11-57-23
248233003	959206	1	axc2	3/9/2010	13:05:45	OM_3-9-2010_11-57-23
248233004	959206	1	axc2	3/9/2010	13:06:37	OM_3-9-2010_11-57-23
248233005	959206	1	axc2	3/9/2010	13:07:29	OM_3-9-2010_11-57-23
248233006	959206	1	axc2	3/9/2010	13:08:24	OM_3-9-2010_11-57-23
248233007	959206	1	axc2	3/9/2010	13:09:17	OM_3-9-2010_11-57-23
248233008	959206	1	axc2	3/9/2010	13:10:11	OM_3-9-2010_11-57-23
248233009	959206	1	axc2	3/9/2010	13:11:05	OM_3-9-2010_11-57-23
CCV		1	axc2	3/9/2010	13:11:57	OM_3-9-2010_11-57-23
CCB		1	axc2	3/9/2010	13:13:47	OM_3-9-2010_11-57-23
248233010	959206	1	axc2	3/9/2010	13:15:37	OM_3-9-2010_11-57-23
248233011	959206	1	axc2	3/9/2010	13:16:30	OM_3-9-2010_11-57-23
248233012	959206	1	axc2	3/9/2010	13:17:23	OM_3-9-2010_11-57-23
248233013	959206	1	axc2	3/9/2010	13:18:16	OM_3-9-2010_11-57-23
1202057129	959208	1	axc2	3/9/2010	13:19:09	OM_3-9-2010_11-57-23
1202057136	959208	25	axc2	3/9/2010	13:20:02	OM_3-9-2010_11-57-23
248009006	959208	1	axc2	3/9/2010	13:20:54	OM_3-9-2010_11-57-23
248009007	959208	1	axc2	3/9/2010	13:21:47	OM_3-9-2010_11-57-23
248016001	959208	1	axc2	3/9/2010	13:22:39	OM_3-9-2010_11-57-23
248016002	959208	1	axc2	3/9/2010	13:23:31	OM_3-9-2010_11-57-23
CCV		1	axc2	3/9/2010	13:24:24	OM_3-9-2010_11-57-23
CCB		1	axc2	3/9/2010	13:26:14	OM_3-9-2010_11-57-23
248016003	959208	1	axc2	3/9/2010	13:28:02	OM_3-9-2010_11-57-23
248203002	959208	1	axc2	3/9/2010	13:28:57	OM_3-9-2010_11-57-23
248233014	959208	1	axc2	3/9/2010	13:29:50	OM_3-9-2010_11-57-23
1202057130	959208	1	axc2	3/9/2010	13:30:45	OM_3-9-2010_11-57-23
1202057132	959208	1	axc2	3/9/2010	13:31:38	OM_3-9-2010_11-57-23
1202057134	959208	1	axc2	3/9/2010	13:32:32	OM_3-9-2010_11-57-23
248233015	959208	1	axc2	3/9/2010	13:33:26	OM_3-9-2010_11-57-23
1202057131	959208	1	axc2	3/9/2010	13:34:19	OM_3-9-2010_11-57-23
1202057133	959208	1	axc2	3/9/2010	13:35:12	OM_3-9-2010_11-57-23
1202057135	959208	1	axc2	3/9/2010	13:36:06	OM_3-9-2010_11-57-23
CCV		1	axc2	3/9/2010	13:36:58	OM_3-9-2010_11-57-23
CCB		1	axc2	3/9/2010	13:38:49	OM_3-9-2010_11-57-23
248233016	959208	1	axc2	3/9/2010	13:40:37	OM_3-9-2010_11-57-23
248233017	959208	1	axc2	3/9/2010	13:41:30	OM_3-9-2010_11-57-23
248233018	959208	1	axc2	3/9/2010	13:42:23	OM_3-9-2010_11-57-23
248233019	959208	1	axc2	3/9/2010	13:43:15	OM_3-9-2010_11-57-23
248233020	959208	1	axc2	3/9/2010	13:44:07	OM_3-9-2010_11-57-23
248237001	959208	1	axc2	3/9/2010	13:45:00	OM_3-9-2010_11-57-23
248237002	959208	1	axc2	3/9/2010	13:45:54	OM_3-9-2010_11-57-23
248237003	959208	1	axc2	3/9/2010	13:46:48	OM_3-9-2010_11-57-23
248237004	959208	1	axc2	3/9/2010	13:47:42	OM_3-9-2010_11-57-23
248237005	959208	1	axc2	3/9/2010	13:48:37	OM_3-9-2010_11-57-23
CCV		1	axc2	3/9/2010	13:49:29	OM_3-9-2010_11-57-23
CCB		1	axc2	3/9/2010	13:51:19	OM_3-9-2010_11-57-23
248237006	959208	1	axc2	3/9/2010	13:53:09	OM_3-9-2010_11-57-23
248237007	959208	1	axc2	3/9/2010	13:54:02	OM_3-9-2010_11-57-23
1202057137	959210	1	axc2	3/9/2010	13:54:56	OM_3-9-2010_11-57-23
1202057144	959210	25	axc2	3/9/2010	13:55:49	OM_3-9-2010_11-57-23
248016004	959210	1	axc2	3/9/2010	13:56:43	OM_3-9-2010_11-57-23
1202057138	959210	1	axc2	3/9/2010	13:57:35	OM_3-9-2010_11-57-23
1202057140	959210	1	axc2	3/9/2010	13:58:29	OM_3-9-2010_11-57-23
1202057142	959210	1	axc2	3/9/2010	13:59:21	OM_3-9-2010_11-57-23
248025003	959210	1	axc2	3/9/2010	14:00:14	OM_3-9-2010_11-57-23
1202057139	959210	1	axc2	3/9/2010	14:01:06	OM_3-9-2010_11-57-23
CCV		1	axc2	3/9/2010	14:01:59	OM_3-9-2010_11-57-23
CCB		1	axc2	3/9/2010	14:03:49	OM_3-9-2010_11-57-23

1202057141	959210	1	axc2	3/9/2010	14:05:38	OM_3-9-2010_11-57-23
1202057143	959210	1	axc2	3/9/2010	14:06:32	OM_3-9-2010_11-57-23
248025005	959210	1	axc2	3/9/2010	14:07:27	OM_3-9-2010_11-57-23
248025007	959210	1	axc2	3/9/2010	14:08:21	OM_3-9-2010_11-57-23
248159001	959210	1	axc2	3/9/2010	14:09:15	OM_3-9-2010_11-57-23
248159002	959210	1	axc2	3/9/2010	14:10:09	OM_3-9-2010_11-57-23
248198001	959210	1	axc2	3/9/2010	14:11:04	OM_3-9-2010_11-57-23
248198002	959210	1	axc2	3/9/2010	14:11:58	OM_3-9-2010_11-57-23
248198003	959210	1	axc2	3/9/2010	14:12:51	OM_3-9-2010_11-57-23
248198004	959210	1	axc2	3/9/2010	14:13:45	OM_3-9-2010_11-57-23
CCV		1	axc2	3/9/2010	14:14:37	OM_3-9-2010_11-57-23
CCB		1	axc2	3/9/2010	14:16:28	OM_3-9-2010_11-57-23

Original Run Filename: OM_3-9-2010_11-57-23.OMN created 3/9/2010 11:57:23
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_3-9-2010_11-57-23.OMN last modified 3/9/2010 14:17:33
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-095 EPA 335.1, 335.3, 335.4, 9012A, CLP335.2-M
 Liquid LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1		Detection Time	ADF	MDF	Description
			TCYANIDE Conc. (ug/L)	Area (Vs)				
WCN100309-01	1	S1	200	10.4	3/9/2010@12:00:41			200 ppb
WCN100309-02	1	S2	150	7.71	3/9/2010@12:01:33			150 ppb
WCN100309-03	1	S3	100	5.04	3/9/2010@12:02:26			100 ppb
WCN100309-04	1	S4	50.0	2.89	3/9/2010@12:03:19			50 ppb
WCN100309-05	1	S5	10.0	0.718	3/9/2010@12:04:12			10 ppb
WCN100309-06	1	S6	5.00	0.434	3/9/2010@12:05:06			CRDL 5.0 ppb
WCN100309-08	1	S7	0.00	0.0640	3/9/2010@12:06:00			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99952 > 0.99500					
Message			Pass					
Action			Continue					
WCN100309-07	1	S8	149	7.73	3/9/2010@12:07:51			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			-0.4 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-0.4 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100309-08	1	S7	1.30	0.228	3/9/2010@12:09:41			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			1.30 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			1.30 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100309-06	1	S6	4.64	0.397	3/9/2010@12:11:31			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			4.64 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			4.64 > 2.50					
Message			Pass					
Action			None					
1202064105|962251|MB	1	1	-2.89	0.0155	3/9/2010@12:13:20			
1202064112|LCS	1	2	26.9	1.52	3/9/2010@12:14:14		25.00	
248635001	1	3	-2.70	0.0250	3/9/2010@12:15:07			
1202064106|DUP	1	4	2.49	0.288	3/9/2010@12:16:00			
1202064108|MS	1	5	101	5.28	3/9/2010@12:16:53			
1202064110|MSD	1	6	73.8	3.90	3/9/2010@12:17:46			
248635002	1	7	-0.895	0.116	3/9/2010@12:18:38			
1202064107|DUP	1	8	-1.34	0.0937	3/9/2010@12:19:31			
1202064109|MS	1	9	88.8	4.66	3/9/2010@12:20:24			
1202064111|MSD	1	10	97.3	5.09	3/9/2010@12:21:16			
WCN100309-03	1	S3	102	5.32	3/9/2010@12:22:08			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				
WCN100309-08	1	S7		-2.29	0.0456	3/9/2010@12:23:58		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	-2.29 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-2.29 > -5.00				
			Message	CCB Passed				
			Action	Continue				
248635003	1	11		-1.23	0.0996	3/9/2010@12:25:47		
248635004	1	12		-1.74	0.0736	3/9/2010@12:26:39		
1202064110|MSD	1	6		91.2	4.78	3/9/2010@12:27:31		
248635005	1	13		18.8	1.11	3/9/2010@12:28:23		
248635006	1	14		-1.56	0.0824	3/9/2010@12:29:15		
248635007	1	15		-2.47	0.0367	3/9/2010@12:30:07		
248635008	1	16		-1.82	0.0693	3/9/2010@12:31:00		
248635009	1	17		-2.00	0.0603	3/9/2010@12:31:54		
248635010	1	18		-1.75	0.0732	3/9/2010@12:32:48		
248635011	1	19		-1.96	0.0623	3/9/2010@12:33:41		
WCN100309-03	1	S3		102	5.34	3/9/2010@12:34:33		CCV
			Known Conc:	100				
DQM Test: > + Percent Relative Difference								
			Result:	2.3 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	2.3 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100309-08	1	S7		-2.61	0.0297	3/9/2010@12:36:23		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				
248635012	1	20		-1.70	0.0757	3/9/2010@12:38:13		
248635013	1	21		-1.92	0.0643	3/9/2010@12:39:06		
248635014	1	22		-2.19	0.0507	3/9/2010@12:39:59		
248658001	1	23		4.37	0.383	3/9/2010@12:40:52		
248658002	1	24		-2.35	0.0428	3/9/2010@12:41:45		
248658003	1	25		6.98	0.515	3/9/2010@12:42:37		
248658004	1	26		-2.38	0.0413	3/9/2010@12:43:29		
248658005	1	27		-3.20	-1.68e-4	3/9/2010@12:44:21		
248833001	1	28		0.788	0.201	3/9/2010@12:45:13		
1202057121|959206|MB	1	29		-2.21	0.0497	3/9/2010@12:46:05		
WCN100309-03	1	S3		103	5.38	3/9/2010@12:46:58		CCV
			Known Conc:	100				
DQM Test: > + Percent Relative Difference								
			Result:	3.1 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	3.1 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100309-08	1	S7		-2.19	0.0507	3/9/2010@12:48:48		CCB
			Known Conc:	0.00				

DQM Test: > + Concentration Limit									
Result:		-2.19 < 5.00							
Message		CCB Passed							
Action		Continue							
DQM Test: < - Concentration Limit									
Result:		-2.19 > -5.00							
Message		CCB Passed							
Action		Continue							
1202057128	LCS	1	30	16.0	0.971	3/9/2010@12:50:36	25.00		
248150001		1	31	-2.01	0.0601	3/9/2010@12:51:30			
1202057123	DUP	1	32	-2.21	0.0495	3/9/2010@12:52:24			
1202057125	MS	1	33	94.1	4.93	3/9/2010@12:53:18			
1202057127	MSD	1	34	102	5.35	3/9/2010@12:54:11			
248150002		1	35	-2.41	0.0396	3/9/2010@12:55:04			
248150003		1	36	-3.35	-0.00807	3/9/2010@12:55:57			
1202057122	DUP	1	37	-2.20	0.0500	3/9/2010@12:56:50			
1202057124	MS	1	38	93.1	4.88	3/9/2010@12:57:43			
1202057126	MSD	1	39	101	5.29	3/9/2010@12:58:36			
WCN100309-03		1	S3	103	5.39	3/9/2010@12:59:29		CCV	
Known Conc:		100							
DQM Test: > + Percent Relative Difference									
Result:		3.2 < 10.0							
Message		CCV Passed							
Action		Continue							
DQM Test: < - Percent Relative Difference									
Result:		3.2 < 10.0							
Message		CCV Passed							
Action		Continue							
WCN100309-08		1	S7	-3.29	-0.00505	3/9/2010@13:01:19		CCB	
Known Conc:		0.00							
DQM Test: > + Concentration Limit									
Result:		-3.29 < 5.00							
Message		CCB Passed							
Action		Continue							
DQM Test: < - Concentration Limit									
Result:		-3.29 > -5.00							
Message		CCB Passed							
Action		Continue							
248150004		1	40	4.56	0.392	3/9/2010@13:03:08			
248233001		1	41	-0.178	0.153	3/9/2010@13:04:00			
248233002		1	42	-1.89	0.0661	3/9/2010@13:04:53			
248233003		1	43	-0.892	0.116	3/9/2010@13:05:45			
248233004		1	44	-1.37	0.0920	3/9/2010@13:06:37			
248233005		1	45	1.72	0.249	3/9/2010@13:07:29			
248233006		1	46	-0.449	0.139	3/9/2010@13:08:24			
248233007		1	47	-0.472	0.138	3/9/2010@13:09:17			
248233008		1	48	-2.47	0.0363	3/9/2010@13:10:11			
248233009		1	49	-1.83	0.0690	3/9/2010@13:11:05			
WCN100309-03		1	S3	103	5.38	3/9/2010@13:11:57		CCV	
Known Conc:		100							
DQM Test: > + Percent Relative Difference									
Result:		3.1 < 10.0							
Message		CCV Passed							
Action		Continue							
DQM Test: < - Percent Relative Difference									
Result:		3.1 < 10.0							
Message		CCV Passed							
Action		Continue							
WCN100309-08		1	S7	-2.40	0.0399	3/9/2010@13:13:47		CCB	
Known Conc:		0.00							
DQM Test: > + Concentration Limit									
Result:		-2.40 < 5.00							
Message		CCB Passed							
Action		Continue							
DQM Test: < - Concentration Limit									
Result:		-2.40 > -5.00							
Message		CCB Passed							
Action		Continue							

248233010	1	50	-1.31	0.0954	3/9/2010@13:15:37		
248233011	1	51	2.13	0.269	3/9/2010@13:16:30		
248233012	1	52	-2.29	0.0457	3/9/2010@13:17:23		
248233013	1	53	-3.19	-5.62e-5	3/9/2010@13:18:16		
1202057129|959208|MB	1	54	-2.50	0.0348	3/9/2010@13:19:09		
1202057136|LCS	1	55	21.3	1.24	3/9/2010@13:20:02	25.00	
248009006	1	56	0.355	0.180	3/9/2010@13:20:54		
248009007	1	57	-2.02	0.0593	3/9/2010@13:21:47		
248016001	1	58	-3.20	-3.29e-4	3/9/2010@13:22:39		
248016002	1	59	-1.81	0.0698	3/9/2010@13:23:31		
WCN100309-03	1	S3	103	5.40	3/9/2010@13:24:24		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			3.4 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			3.4 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100309-08	1	S7	-3.22	-0.00147	3/9/2010@13:26:14		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-3.22 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-3.22 > -5.00				
Message			CCB Passed				
Action			Continue				
248016003	1	60	-2.36	0.0423	3/9/2010@13:28:02		
248203002	1	61	3.85	0.357	3/9/2010@13:28:57		
248233014	1	62	-0.288	0.147	3/9/2010@13:29:50		
1202057130|DUP	1	63	0.100	0.167	3/9/2010@13:30:45		
1202057132|MS	1	64	92.5	4.84	3/9/2010@13:31:38		
1202057134|MSD	1	65	79.9	4.20	3/9/2010@13:32:32		
248233015	1	66	-3.34	-0.00759	3/9/2010@13:33:26		
1202057131|DUP	1	67	-2.22	0.0494	3/9/2010@13:34:19		
1202057133|MS	1	68	101	5.29	3/9/2010@13:35:12		
1202057135|MSD	1	69	98.6	5.15	3/9/2010@13:36:06		
WCN100309-03	1	S3	103	5.39	3/9/2010@13:36:58		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			3.4 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			3.4 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100309-08	1	S7	-3.31	-0.00620	3/9/2010@13:38:49		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-3.31 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-3.31 > -5.00				
Message			CCB Passed				
Action			Continue				
248233016	1	70	1.39	0.232	3/9/2010@13:40:37		
248233017	1	71	-2.62	0.0291	3/9/2010@13:41:30		
248233018	1	72	-2.05	0.0580	3/9/2010@13:42:23		
248233019	1	73	-1.46	0.0878	3/9/2010@13:43:15		
248233020	1	74	-0.206	0.151	3/9/2010@13:44:07		
248237001	1	75	86.4	4.53	3/9/2010@13:45:00		
248237002	1	76	-3.20	-1.38e-4	3/9/2010@13:45:54		
248237003	1	77	-1.59	0.0809	3/9/2010@13:46:48		

248237004	1	78	5.35	0.432	3/9/2010@13:47:42		
248237005	1	79	-2.60	0.0299	3/9/2010@13:48:37		
WCN100309-03	1	S3	104	5.40	3/9/2010@13:49:29		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			3.5 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			3.5 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100309-08	1	S7	-2.64	0.0281	3/9/2010@13:51:19		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-2.64 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-2.64 > -5.00				
Message			CCB Passed				
Action			Continue				
248237006	1	80	-2.30	0.0454	3/9/2010@13:53:09		
248237007	1	81	0.226	0.173	3/9/2010@13:54:02		
1202057137|959210|MB	1	82	-3.13	0.00320	3/9/2010@13:54:56		
1202057144|LCS	1	83	24.0	1.37	3/9/2010@13:55:49	25.00	
248016004	1	84	-2.18	0.0513	3/9/2010@13:56:43		
1202057138|DUP	1	85	-1.72	0.0745	3/9/2010@13:57:35		
1202057140|MS	1	86	95.3	4.99	3/9/2010@13:58:29		
1202057142|MSD	1	87	84.3	4.43	3/9/2010@13:59:21		
248025003	1	88	-2.42	0.0393	3/9/2010@14:00:14		
1202057139|DUP	1	89	-2.70	0.0249	3/9/2010@14:01:06		
WCN100309-03	1	S3	104	5.43	3/9/2010@14:01:59		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				
WCN100309-08	1	S7	-2.62	0.0292	3/9/2010@14:03:49		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-2.62 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-2.62 > -5.00				
Message			CCB Passed				
Action			Continue				
1202057141|MS	1	90	109	5.66	3/9/2010@14:05:38		
1202057143|MSD	1	91	111	5.79	3/9/2010@14:06:32		
248025005	1	92	-2.32	0.0440	3/9/2010@14:07:27		
248025007	1	93	-3.19	-1.36e-4	3/9/2010@14:08:21		
248159001	1	94	-2.56	0.0321	3/9/2010@14:09:15		
248159002	1	95	-3.27	-0.00381	3/9/2010@14:10:09		
248198001	1	96	16.5	0.996	3/9/2010@14:11:04		
248198002	1	97	1.42	0.233	3/9/2010@14:11:58		
248198003	1	98	3.53	0.340	3/9/2010@14:12:51		
248198004	1	99	0.666	0.195	3/9/2010@14:13:45		
WCN100309-03	1	S3	103	5.39	3/9/2010@14:14:37		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			3.2 < 10.0				
Message			CCV Passed				
Action			Continue				

DQM Test: < - Percent Relative Difference						
Result:		3.2 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100309-08	1	S7	-2.62	0.0288	3/9/2010@14:16:28	CCB
Known Conc:		0.00				
DQM Test: > + Concentration Limit						
Result:		-2.62 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-2.62 > -5.00				
Message		CCB Passed				
Action		Continue				

Analyte Properties Table for OM_3-9-2010_11-57-23.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

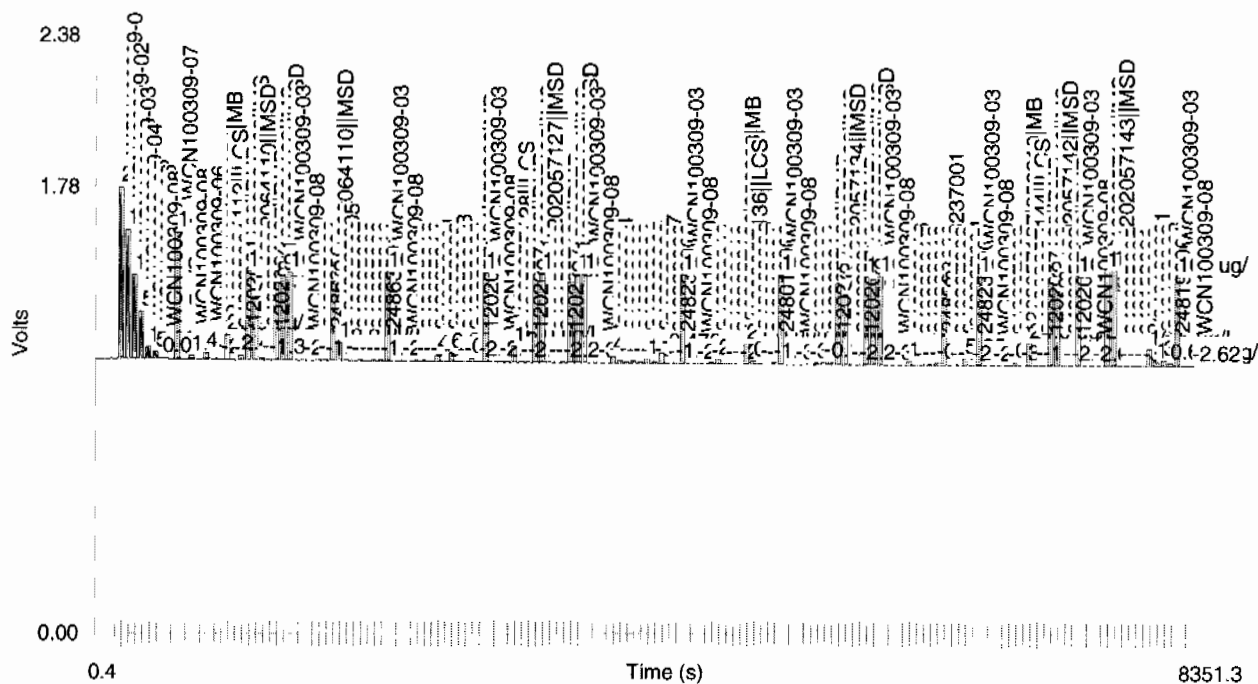
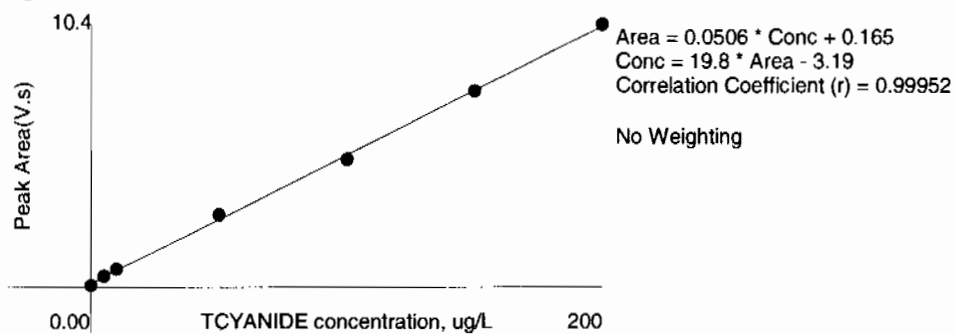


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	10.4	0.678	-0.7	3/9/2010	12:01:44
2	150	1	7.71	0.512	0.5	3/9/2010	12:02:36
3	100	1	5.04	0.334	3.6	3/9/2010	12:03:29
4	50.0	1	2.89	0.190	-7.2	3/9/2010	12:04:22
5	10.0	1	0.718	0.0464	-7.0	3/9/2010	12:05:15
6	5.00	1	0.434	0.0270	-3.8	3/9/2010	12:06:09
7	0.00	1	0.0640	0.00267		3/9/2010	12:07:03

Figure 1: TCYANIDE



This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
CCV		1	axc2	3/9/2010 15:00:31	OM_3-9-2010_14-57-11
CCB		1	axc2	3/9/2010 15:02:22	OM_3-9-2010_14-57-11
248198005	959210	1	axc2	3/9/2010 15:04:11	OM_3-9-2010_14-57-11
248198006	959210	1	axc2	3/9/2010 15:05:04	OM_3-9-2010_14-57-11
248198007	959210	1	axc2	3/9/2010 15:05:57	OM_3-9-2010_14-57-11
248198008	959210	1	axc2	3/9/2010 15:06:50	OM_3-9-2010_14-57-11
248198009	959210	1	axc2	3/9/2010 15:07:43	OM_3-9-2010_14-57-11
248198010	959210	1	axc2	3/9/2010 15:08:36	OM_3-9-2010_14-57-11
248198011	959210	1	axc2	3/9/2010 15:09:30	OM_3-9-2010_14-57-11
248198012	959210	1	axc2	3/9/2010 15:10:25	OM_3-9-2010_14-57-11
248202001	959210	1	axc2	3/9/2010 15:11:20	OM_3-9-2010_14-57-11
248202002	959210	1	axc2	3/9/2010 15:12:14	OM_3-9-2010_14-57-11
CCV		1	axc2	3/9/2010 15:13:07	OM_3-9-2010_14-57-11
CCB		1	axc2	3/9/2010 15:14:59	OM_3-9-2010_14-57-11
1202065974	963030	1	axc2	3/9/2010 15:16:51	OM_3-9-2010_14-57-11
1202065975	963030	1	axc2	3/9/2010 15:17:45	OM_3-9-2010_14-57-11
248044004	963030	1	axc2	3/9/2010 15:18:39	OM_3-9-2010_14-57-11
1202065976	963030	1	axc2	3/9/2010 15:19:33	OM_3-9-2010_14-57-11
1202065977	963030	1	axc2	3/9/2010 15:20:26	OM_3-9-2010_14-57-11
1202065978	963030	1	axc2	3/9/2010 15:21:20	OM_3-9-2010_14-57-11
1202064157	962265	1	axc2	3/9/2010 15:22:14	OM_3-9-2010_14-57-11
1202064159	962265	1	axc2	3/9/2010 15:23:07	OM_3-9-2010_14-57-11
248728001	962265	1	axc2	3/9/2010 15:23:59	OM_3-9-2010_14-57-11
1202064158	962265	1	axc2	3/9/2010 15:24:52	OM_3-9-2010_14-57-11
CCV		1	axc2	3/9/2010 15:25:45	OM_3-9-2010_14-57-11
CCB		1	axc2	3/9/2010 15:27:36	OM_3-9-2010_14-57-11
248833001	962265	1	axc2	3/9/2010 15:29:27	OM_3-9-2010_14-57-11
CCV		1	axc2	3/9/2010 15:30:20	OM_3-9-2010_14-57-11
CCB		1	axc2	3/9/2010 15:32:12	OM_3-9-2010_14-57-11

Original Run Filename: OM_3-9-2010_14-57-11.OMN created 3/9/2010 14:57:11
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_3-9-2010_14-57-11.OMN last modified 3/9/2010 15:33:16
 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)				
WCN100309-03	1	S3	103	5.39	3/9/2010@15:00:31			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			3.4 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			3.4 < 10.0					
Message			CCV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100309-08	1	S7	-3.20	-2.06e-4	3/9/2010@15:02:22			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-3.20 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-3.20 > -5.00					
Message			CCB Passed					
Action			Continue					
248198005|959210|	1	100	16.9	1.02	3/9/2010@15:04:11			
248198006	1	101	8.24	0.579	3/9/2010@15:05:04			
248198007	1	102	0.0197	0.163	3/9/2010@15:05:57			
248198008	1	103	-0.546	0.134	3/9/2010@15:06:50			
248198009	1	104	8.24	0.579	3/9/2010@15:07:43			
248198010	1	105	6.72	0.502	3/9/2010@15:08:36			
248198011	1	106	5.06	0.418	3/9/2010@15:09:30			
248198012	1	107	8.73	0.603	3/9/2010@15:10:25			
248202001	1	108	3.51	0.339	3/9/2010@15:11:20			
248202002	1	109	27.5	1.55	3/9/2010@15:12:14			
WCN100309-03	1	S3	107	5.60	3/9/2010@15:13:07			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			7.4 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			7.4 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100309-08	1	S7	-3.21	-7.87e-4	3/9/2010@15:14:59			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-3.21 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-3.21 > -5.00					
Message			CCB Passed					
Action			Continue					
1202065974|963030|MB	1	110	-3.19	1.70e-4	3/9/2010@15:16:51			
1202065975|LCS	1	111	51.8	2.78	3/9/2010@15:17:45			
248044004	1	112	-1.83	0.0689	3/9/2010@15:18:39			
1202065976|DUP	1	113	-2.25	0.0477	3/9/2010@15:19:33			
1202065977|MS	1	114	106	5.55	3/9/2010@15:20:26			

1202065978||MSD	1	115	109	5.70	3/9/2010@15:21:20		
1202064157|962265|MB	1	116	-2.32	0.0441	3/9/2010@15:22:14		
1202064159||LCS	1	117	-1.36	0.0928	3/9/2010@15:23:07		
248728001	1	118	3.51	0.339	3/9/2010@15:23:59		
1202064158||DUP	1	119	4.25	0.377	3/9/2010@15:24:52		
WCN100309-03	1	S3	109	5.69	3/9/2010@15:25:45		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			9.2 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			9.2 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100309-08	1	S7	-2.34	0.0432	3/9/2010@15:27:36		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				
248833001	1	120	0.457	0.185	3/9/2010@15:29:27		
WCN100309-03	1	S3	107	5.58	3/9/2010@15:30:20		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			7.1 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			7.1 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100309-08	1	S7	-2.49	0.0354	3/9/2010@15:32:12		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-2.49 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-2.49 > -5.00				
Message			CCB Passed				
Action			Continue				

Analyte Properties Table for OM_3-9-2010_14-57-11.OMN

Property	Channel 1
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

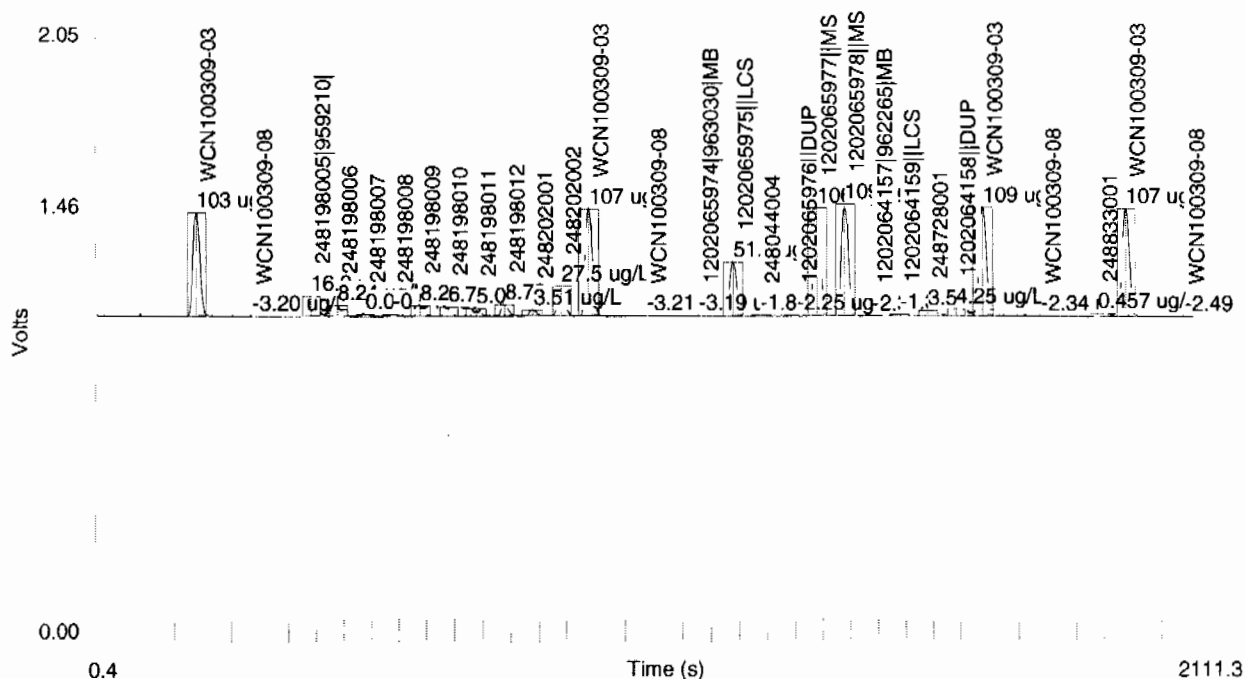
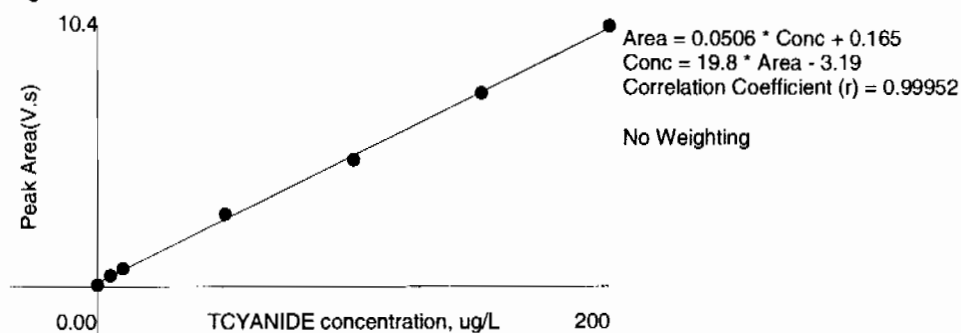


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	10.4	0.678	-0.7	3/9/2010	12:01:44
2	150	1	7.71	0.512	0.5	3/9/2010	12:02:36
3	100	1	5.04	0.334	3.6	3/9/2010	12:03:29
4	50.0	1	2.89	0.190	-7.2	3/9/2010	12:04:22
5	10.0	1	0.718	0.0464	-7.0	3/9/2010	12:05:15
6	5.00	1	0.434	0.0270	-3.8	3/9/2010	12:06:09
7	0.00	1	0.0640	0.00267		3/9/2010	12:07:03

Figure 1: TCYANIDE



Ion Chromatography

Prep Logbook

Verified by:

Mary Sherwood

EPA 300.0 PREP

GL-GC-E-086 REV# 17

Sartorius Balance B-001

Serial Number	Spike Amount	Spike Units
UIC100224SPK	.8	mL
UIC100224SPK	.8	mL
UIC100224SPK	.8	mL
UIC100224SPK	.8	mL
UIC100224SPK	.8	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202073473 MB	21-MAR-2010 11:00:00	Soil	4	40	10	
1202073480 LCS	21-MAR-2010 11:00:00	Soil	4	40	10	
248198001	21-MAR-2010 11:00:00	Soil	4	40	10	
1202073474 DUP (248198001)	21-MAR-2010 11:00:00	Soil	4	40	10	
1202073476 MS (248198001)	21-MAR-2010 11:00:00	Soil	4	40	10	
1202073478 MSD (248198001)	21-MAR-2010 11:00:00	Soil	4	40	10	
248198002	21-MAR-2010 11:00:00	Soil	4	40	10	
248198003	21-MAR-2010 11:00:00	Soil	4	40	10	
248198004	21-MAR-2010 11:00:00	Soil	4	40	10	
248198005	21-MAR-2010 11:00:00	Soil	4	40	10	
248198006	21-MAR-2010 11:00:00	Soil	4	40	10	
248198007	21-MAR-2010 11:00:00	Soil	4	40	10	
248198008	21-MAR-2010 11:00:00	Soil	4	40	10	
248198009	21-MAR-2010 11:00:00	Soil	4	40	10	
248198010	21-MAR-2010 11:00:00	Soil	4	40	10	
248198011	21-MAR-2010 11:00:00	Soil	4	40	10	
248198012	21-MAR-2010 11:00:00	Soil	4	40	10	
1202073475 DUP (248198012)	21-MAR-2010 11:00:00	Soil	4	40	10	
1202073477 MS (248198012)	21-MAR-2010 11:00:00	Soil	4	40	10	
1202073479 MSD (248198012)	21-MAR-2010 11:00:00	Soil	4	40	10	

Comments:

Analytical Logbook version 1 11-04-2002

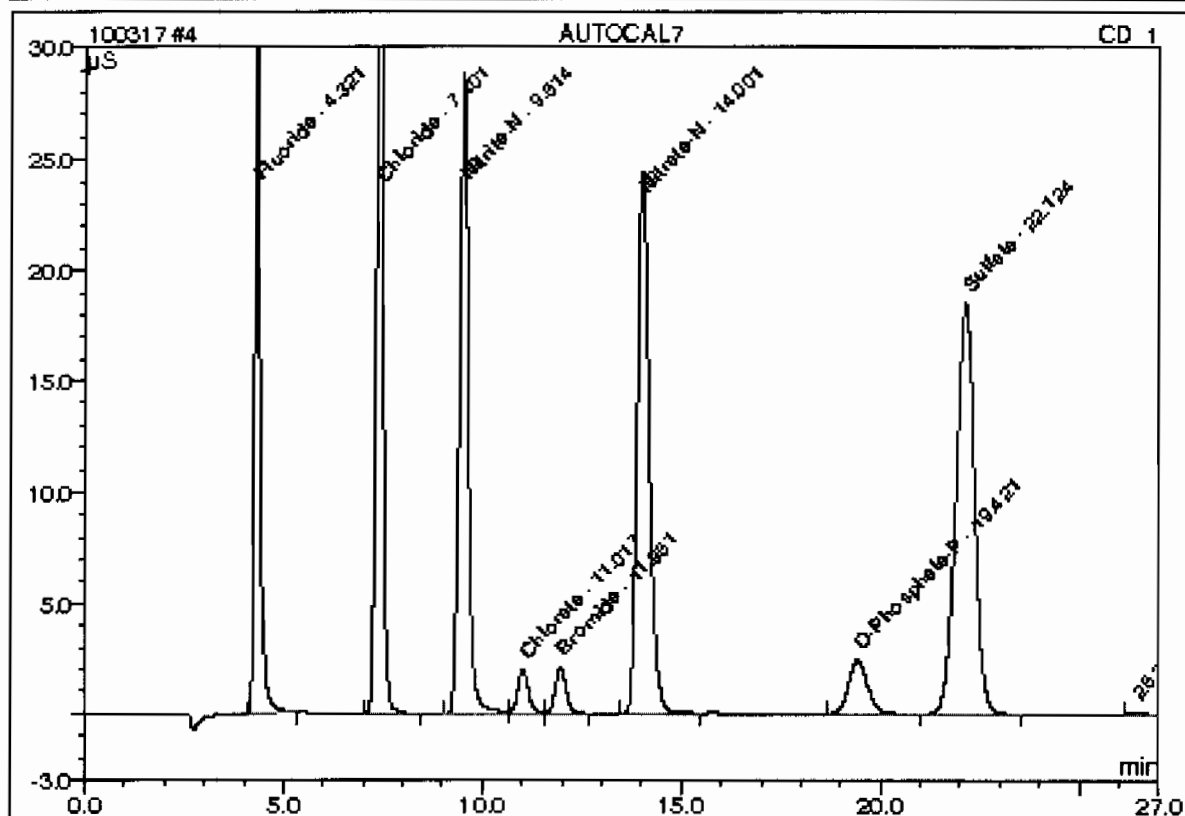
GEL Laboratories LLC

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

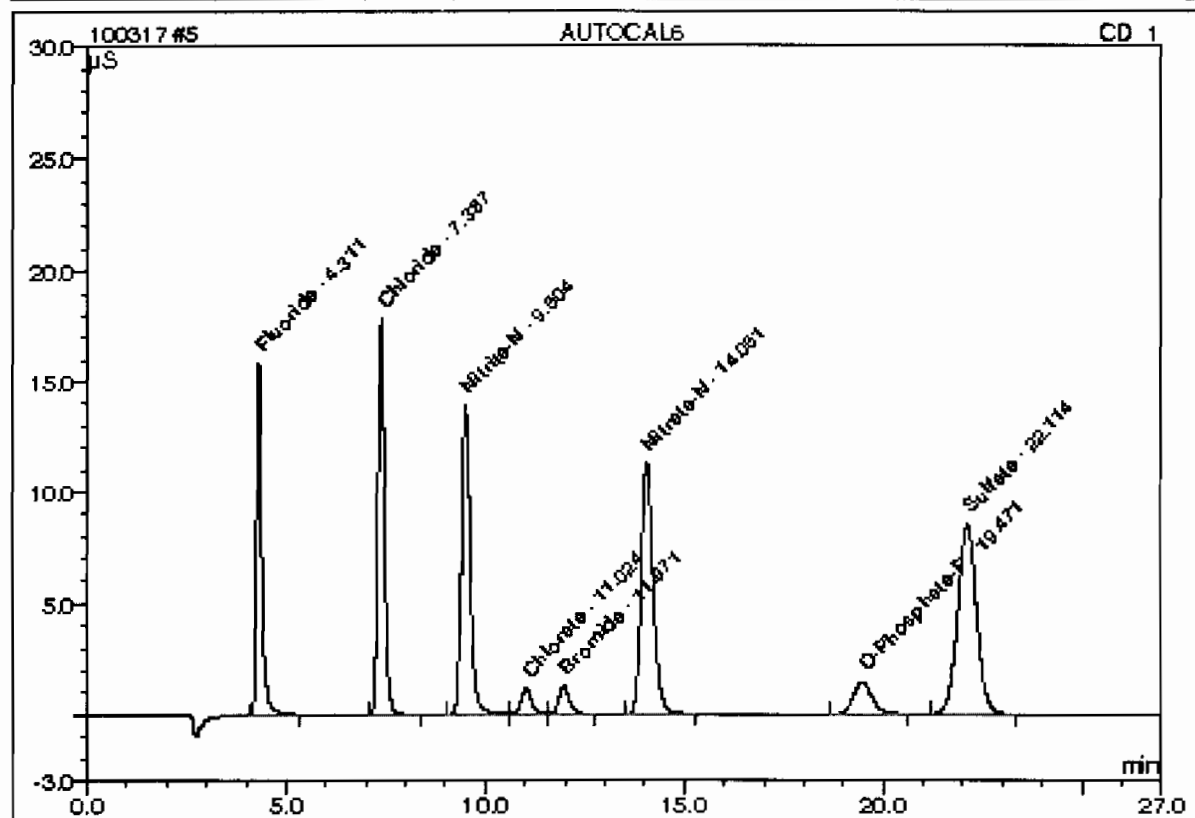
Sample Name:	AUTOCAL7	Injection Volume:	50.0
Vial Number:	4	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 9:15	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407, GL GCE086,300,0056



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

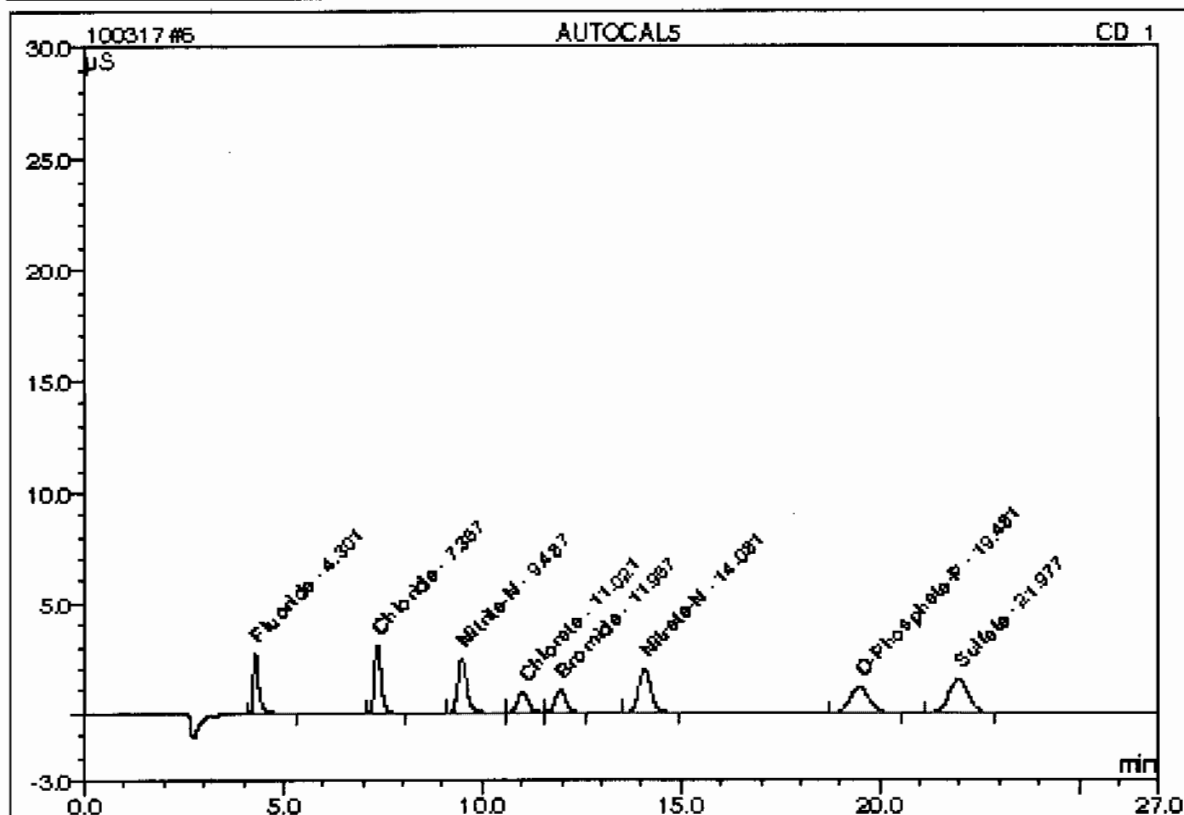
Sample Name:	AUTOCAL6	Injection Volume:	50.0
Vial Number:	5	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 9:45	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL 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	17.26
3	9.50	Nitrite-N	5.0000	4.8693		3.54551	18.19
4	11.02	Chlorate	3.0000	2.9878		0.36137	1.85
5	11.97	Bromide	3.0000	2.9986		0.38556	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

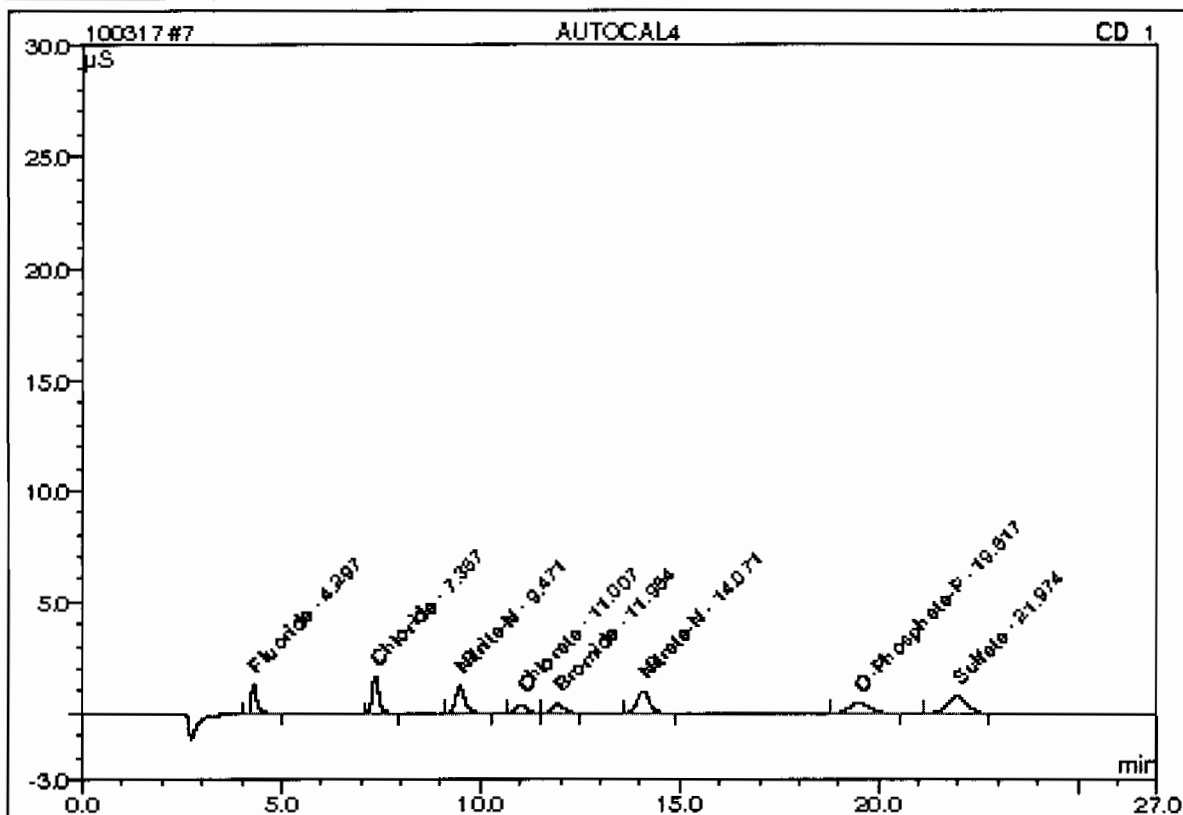
Sample Name:	AUTOCAL5	Injection Volume:	50.0
Vial Number:	6	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 10:15	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC BD86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel.Area %
1	4.30	Fluoride	1.0000	0.9378		0.44618	9.89
2	7.37	Chloride	2.0000	1.8432		0.61004	13.52
3	9.49	Nitrite-N	1.0000	0.9327		0.64234	14.24
4	11.02	Chlorate	2.5000	2.3781		0.28403	6.30
5	11.97	Bromide	2.5000	2.4513		0.31361	6.95
6	14.08	Nitrate-N	1.0000	0.9208		0.70455	15.62
7	19.48	O-Phosphate-P	2.5000	2.4823		0.65221	14.46
8	21.98	Sulfate	4.0000	3.7504		0.85753	19.01
Total:				15.6967	0.000	4.511	100.00

7 AUTOCAL4

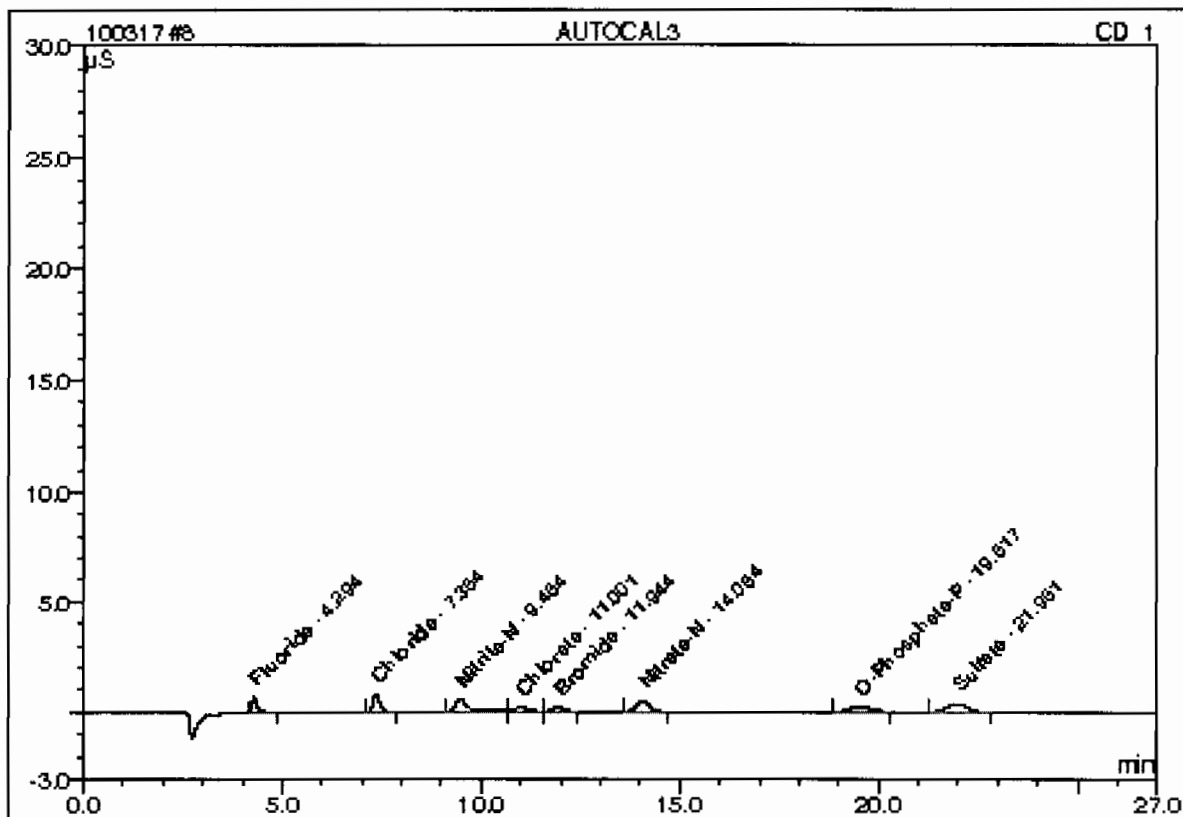
Sample Name:	AUTOCAL4	Injection Volume:	50.0
Vial Number:	7	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 10:45	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;0056



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	1.0808		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		0.10889	5.13
5	11.95	Bromide	1.0000	0.9722		0.12171	5.75
6	14.07	Nitrate-N	0.5000	0.5111		0.34644	16.36
7	19.52	O-Phosphate-P	1.0000	0.9993		0.25849	12.21
8	21.97	Sulfate	2.0000	2.0534		0.42575	20.11
Total:				7.5529	0.000	2.117	100.00

8 AUTOCAL3

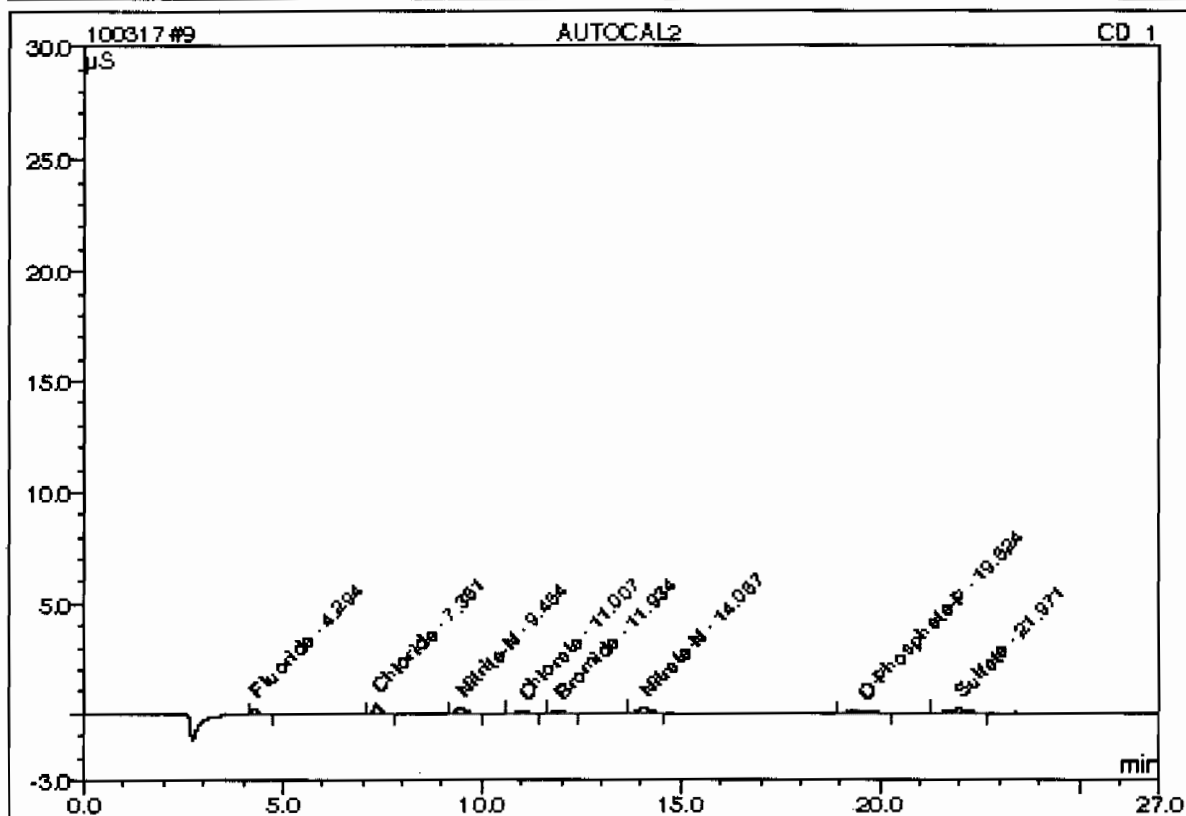
Sample Name:	AUTOCAL3	Injection Volume:	50.0
Vial Number:	8	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 11:15	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC E086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel.Area %
1	4.29	Fluoride	0.2500	0.2772		0.10608	9.31
2	7.35	Chloride	0.5000	0.6486		0.16371	14.36
3	9.46	Nitrite-N	0.2500	0.3510		0.21960	19.26
4	11.00	Chlorate	0.5000	0.6270		0.07382	6.48
5	11.94	Bromide	0.5000	0.5232		0.06434	5.64
6	14.06	Nitrate-N	0.2500	0.3124		0.17066	14.97
7	19.52	O-Phosphate-P	0.5000	0.5128		0.13076	11.47
8	21.96	Sulfate	1.0000	1.2128		0.21096	18.51
Total:				4.4648	0.000	1.140	100.00

9 AUTOCAL2

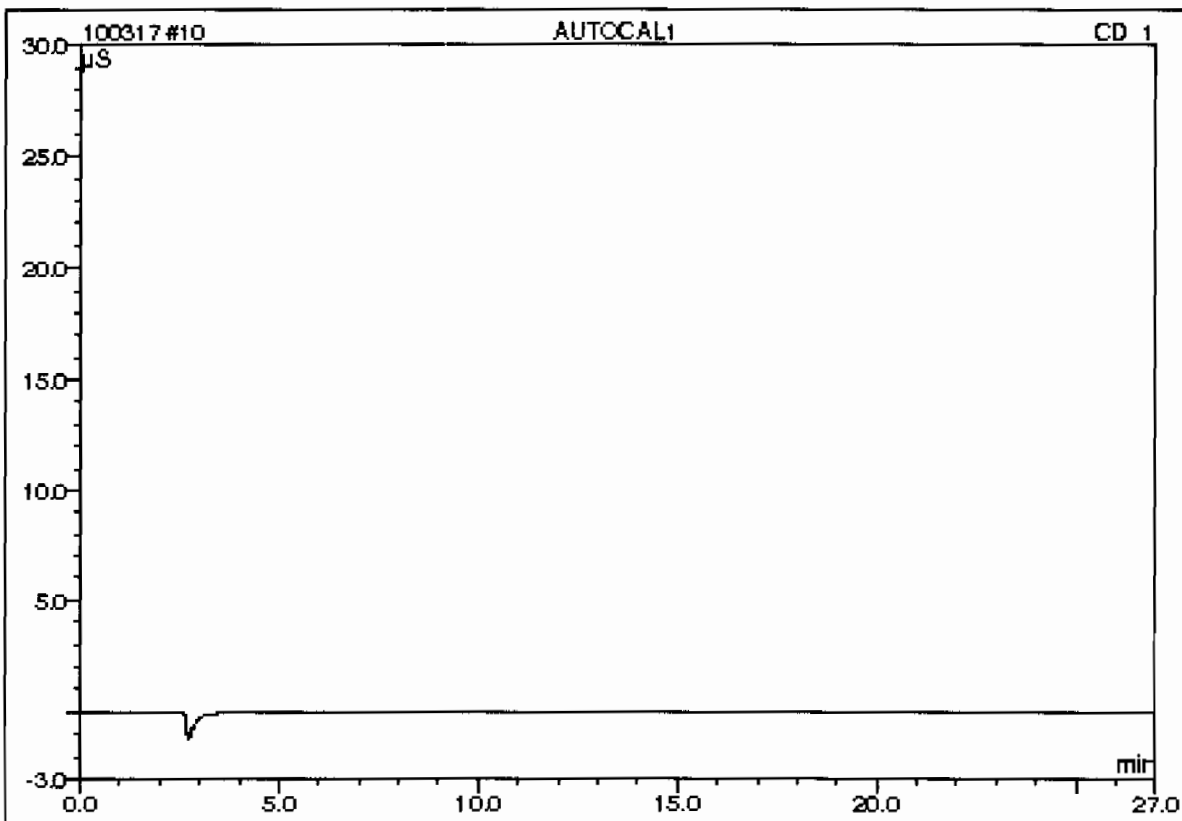
Sample Name:	AUTOCAL2	Injection Volume:	50.0
Vial Number:	9	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 11:45	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86; 300; 9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.29	Fluoride	0.1000	0.1392		0.04186	9.37
2	7.35	Chloride	0.2000	0.3749		0.07985	17.83
3	9.46	Nitrite-N	0.1000	0.1279		0.06080	13.61
4	11.01	Chlorate	0.2000	0.1981		0.02196	4.92
5	11.93	Bromide	0.2000	0.2157		0.02531	5.67
6	14.07	Nitrate-N	0.1000	0.1723		0.06679	14.95
7	19.52	O-Phosphate-P	0.2000	0.2351		0.06039	13.52
8	21.97	Sulfate	0.4000	0.6629		0.08998	20.14
Total:				2.1261	0.000	0.447	100.00

10 AUTOCAL1

Sample Name:	AUTOCAL1	Injection Volume:	50.0
Vial Number:	10	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 13:14	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC E086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Fluoride	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	0.0000	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

10 AUTOCAL1

Sample Name: AUTOCAL1

Vial Number: 10

Sample Type: standard

Control Program: AS23

Quantif. Method: 100317an

Recording Time: 3/17/2010 13:14

Run Time (min): 27.00

Injection Volume: 50.0

Channel: CD_1

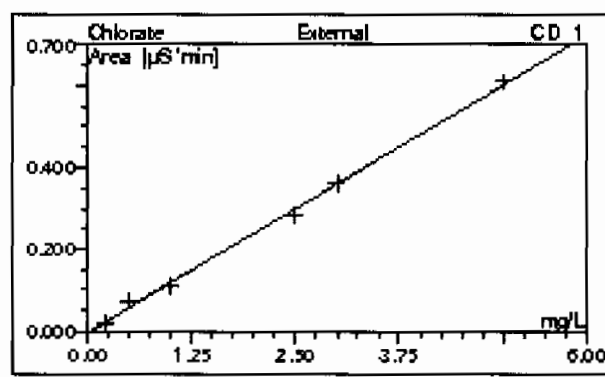
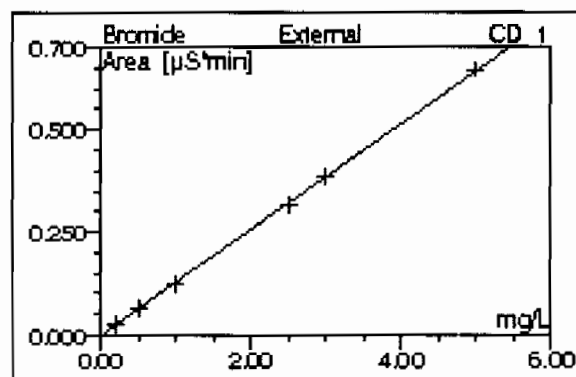
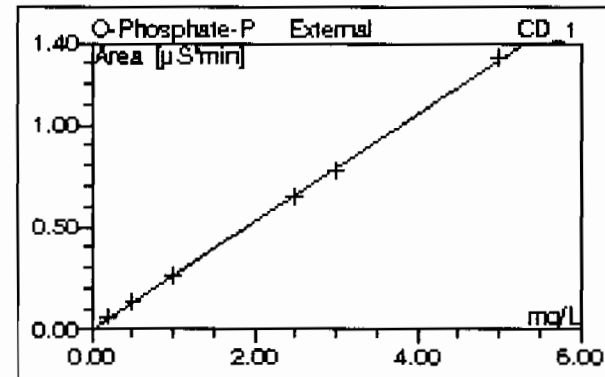
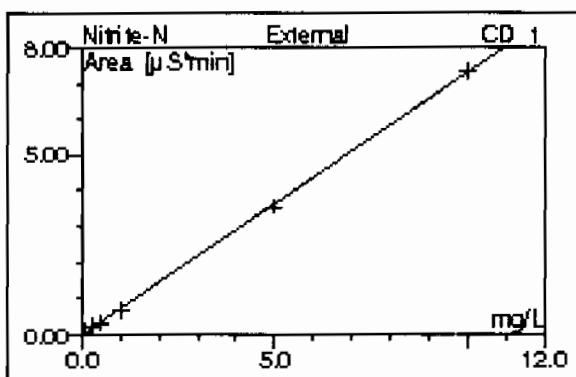
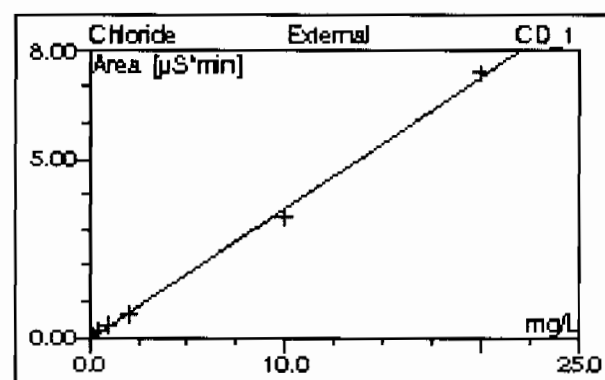
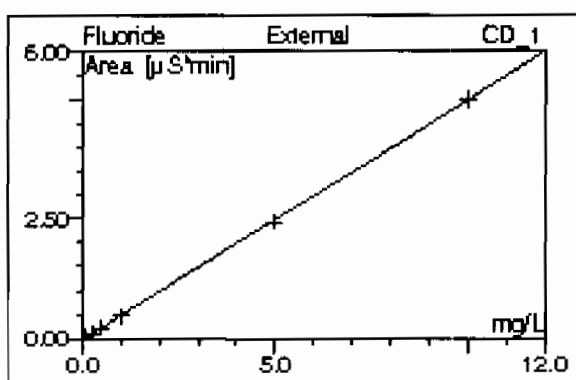
Dilution Factor: 1.0000

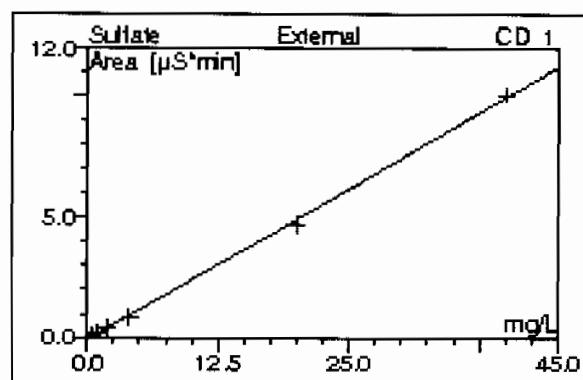
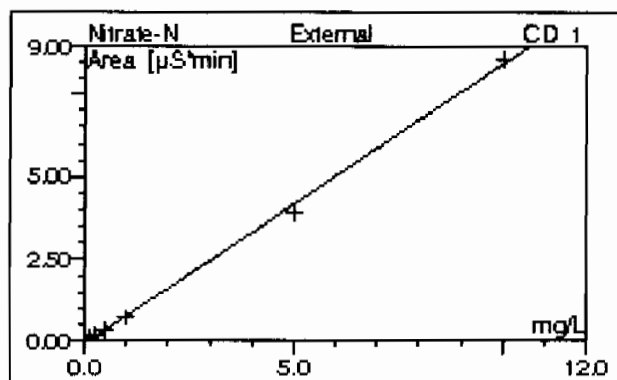
Sample Weight: 1.0000

Sample Amount: 1.0000

Analyst: GXM3

Column: AS23-002714; GLGC086; 300; 9056





No. CD_1	Ret.Time CD_1 min	Peak Name CD_1	Cal.Type CD_1	Coeff.Det. CD_1 %	Offset CD_1	Slope CD_1	Curve CD_1
n.a.	n.a.	Fluoride	0LOH	99.9751	-0.0280	0.5015	0.0000
n.a.	n.a.	Chloride	0LOH	99.8150	-0.0574	0.3656	0.0000
n.a.	n.a.	Nitrite-N	0LOH	99.9510	-0.0332	0.7348	0.0000
n.a.	n.a.	Chlorate	0LOH	99.7338	-0.0020	0.1208	0.0000
n.a.	n.a.	Bromide	0LOH	99.9700	-0.0025	0.1290	0.0000
n.a.	n.a.	Nitrate-N	0LOH	99.8613	-0.0800	0.8518	0.0000
n.a.	n.a.	O-Phosphate-P	0LOH	99.9667	-0.0017	0.2641	0.0000
n.a.	n.a.	Sulfate	0LOH	99.8983	-0.0758	0.2500	0.0000
Average:				99.8964	-0.0351	0.4022	0.0000

This is runlog for Sequence 100317.seq for IC7

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
BLK	03/17/10 08:45		1	100317	GXM3
ICAL-07	03/17/10 09:15		1	100317	GXM3
ICAL-06	03/17/10 09:45		1	100317	GXM3
ICAL-05	03/17/10 10:15		1	100317	GXM3
ICAL-04	03/17/10 10:45		1	100317	GXM3
ICAL-03	03/17/10 11:15		1	100317	GXM3
ICAL-02	03/17/10 11:45		1	100317	GXM3
ICAL-01	03/17/10 13:14		1	100317	GXM3
ICV	03/17/10 13:43		1	100317	GXM3
ICB	03/17/10 14:12		1	100317	GXM3
1202066399	03/17/10 14:42	963224	1	100317	GXM3
1202066402	03/17/10 15:11	963224	1	100317	GXM3
247261004	03/17/10 15:41	963224	1	100317	GXM3
1202066400	03/17/10 16:11	963224	1	100317	GXM3
1202066401	03/17/10 16:41	963224	1	100317	GXM3
247431002	03/17/10 17:10	963224	1	100317	GXM3
247817001	03/17/10 17:40	963224	1	100317	GXM3
247829001	03/17/10 18:10	963224	1	100317	GXM3
248024002	03/17/10 18:40	963224	1	100317	GXM3
248024004	03/17/10 19:10	963224	1	100317	GXM3
CVH	03/17/10 19:40		1	100317	GXM3
CCB	03/17/10 20:10		1	100317	GXM3
1202063619	03/17/10 20:39	962082	1	100317	GXM3
1202063626	03/17/10 21:09	962082	1	100317	GXM3
248666001	03/17/10 21:39	962082	1	100317	GXM3
1202063620	03/17/10 22:09	962082	1	100317	GXM3
1202063622	03/17/10 22:39	962082	1	100317	GXM3
1202063624	03/17/10 23:09	962082	1	100317	GXM3

248666002

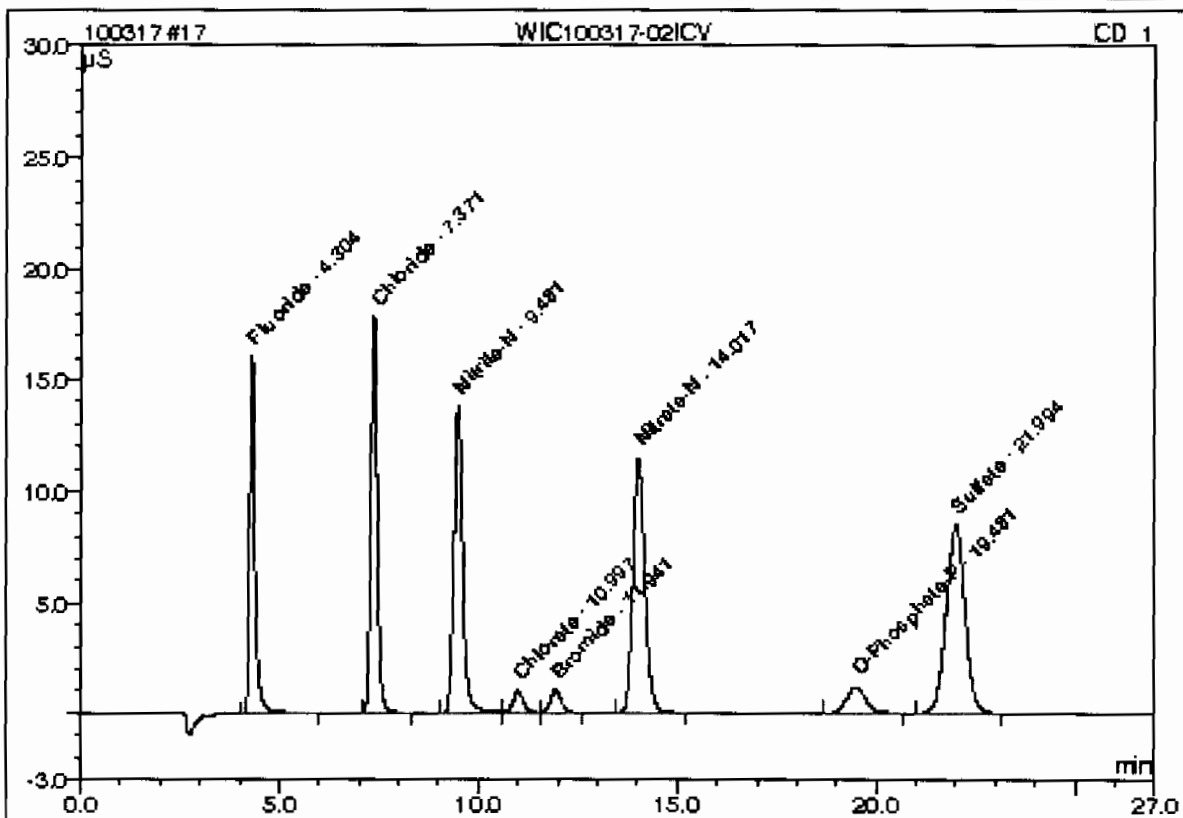
03/17/10 23:39 962082 1

100317

GXM3

17 WIC100317-02ICV

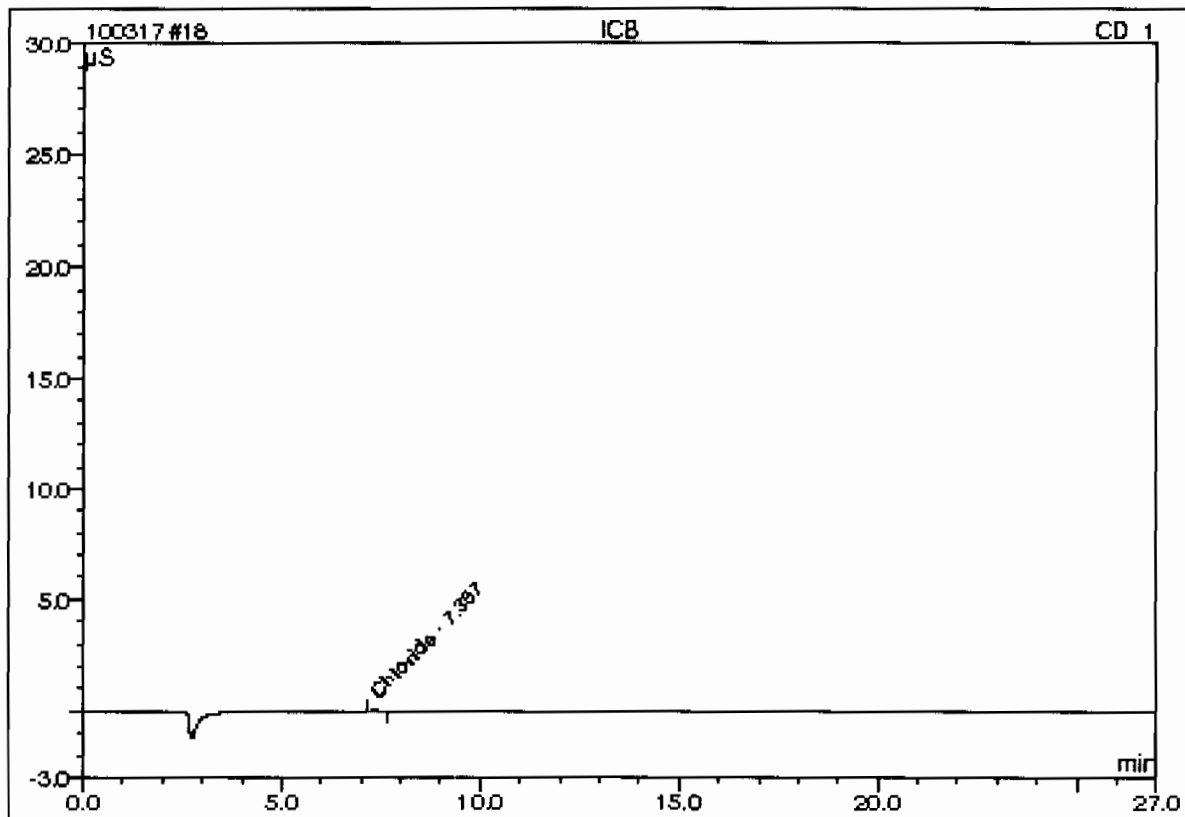
Sample Name:	WIC100317-02ICV	Injection Volume:	50.0
Vial Number:	11	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 13:43	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.30	Fluoride	n.a.	4.9817		2.46032	12.79
2	7.37	Chloride	n.a.	9.3464		3.35930	17.46
3	9.48	Nitrite-N	n.a.	4.8136		3.50372	18.21
4	11.00	Chlorate	n.a.	2.4909		0.29883	1.55
5	11.94	Bromide	n.a.	2.4926		0.31900	1.66
6	14.02	Nitrate-N	n.a.	4.7581		3.97314	20.65
7	19.48	O-Phosphate-P	n.a.	2.5072		0.66041	3.43
8	21.99	Sulfate	n.a.	18.9605		4.66474	24.25
Total:				50.3309	0.000	19.239	100.00

18 ICB

Sample Name:	ICB	Injection Volume:	50.0
Vial Number:	12	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/17/2010 14:12	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC B086; 300; 9056



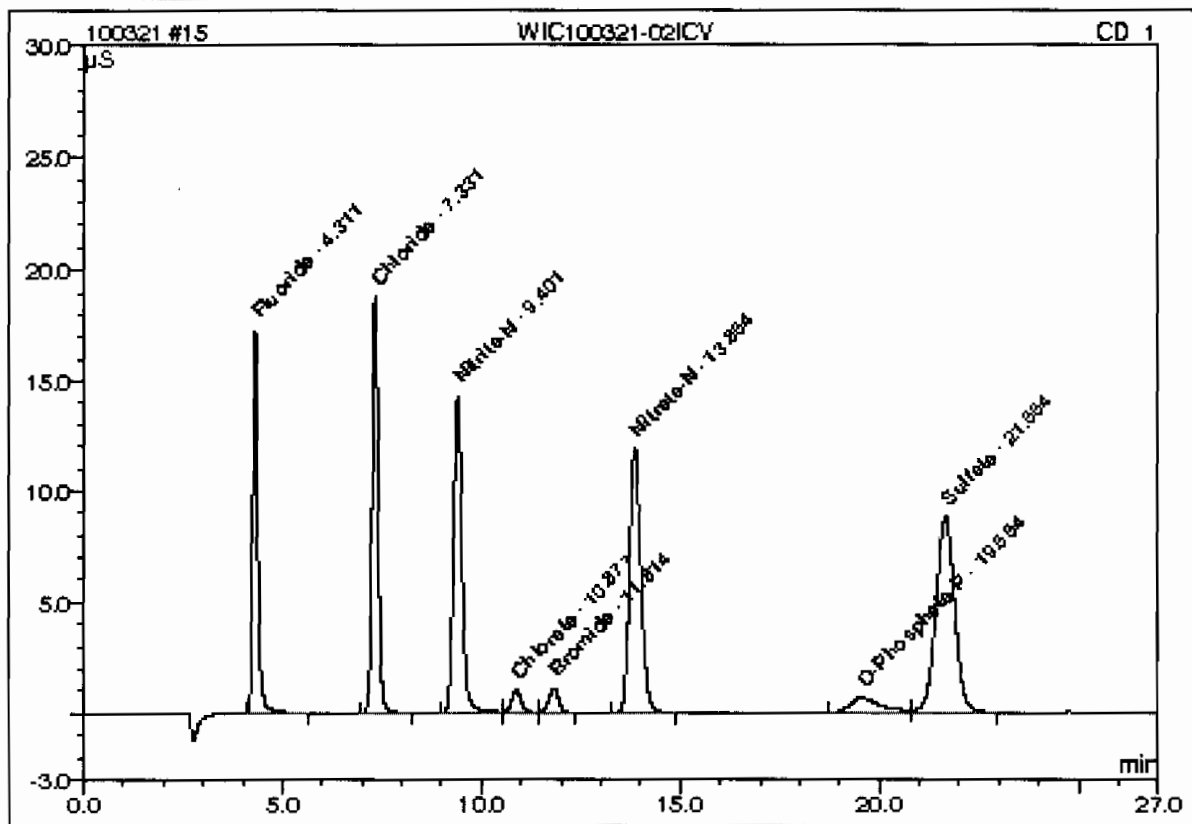
No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
1	7.36	Chloride	n.a.	0.1862		0.01068	100.00
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	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

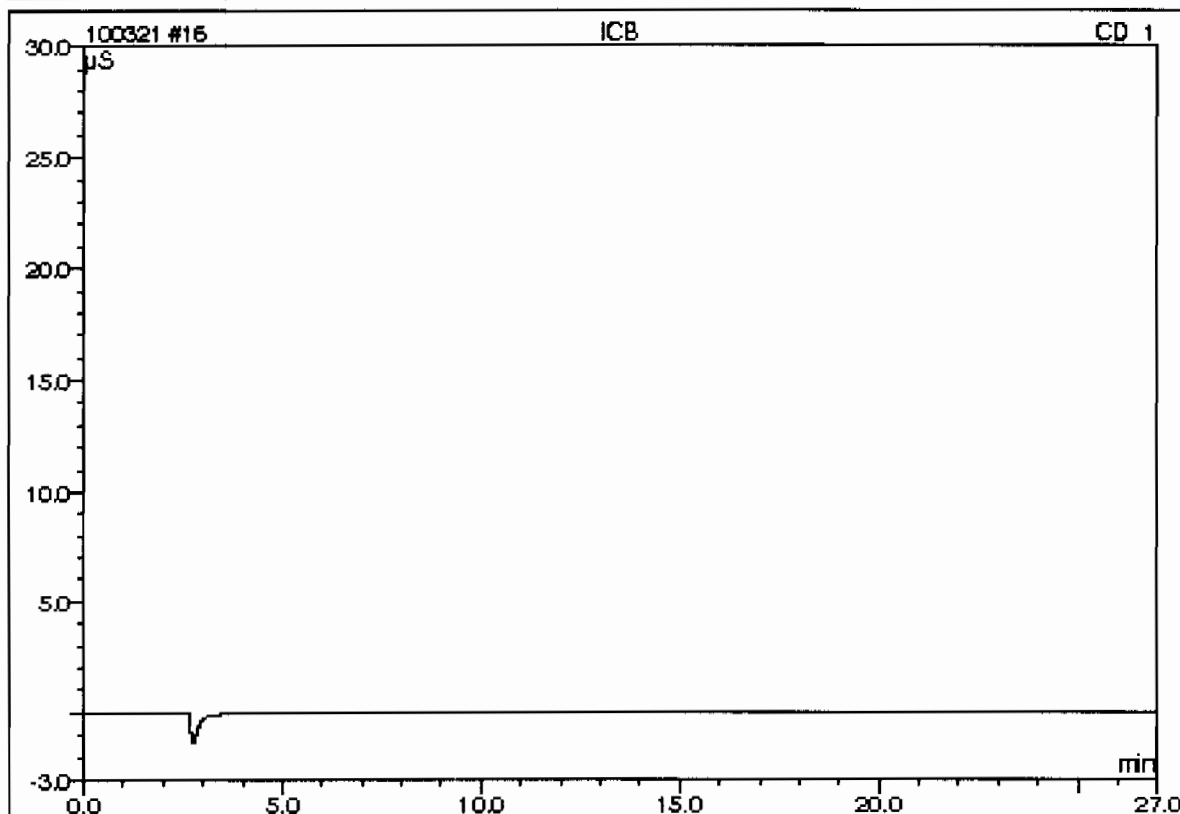
Sample Name:	WIC100321-02ICV	Injection Volume:	50.0
Vial Number:	2	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/21/2010 12:34	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; 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	21.85	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
Quantif. 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;0056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area uS*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

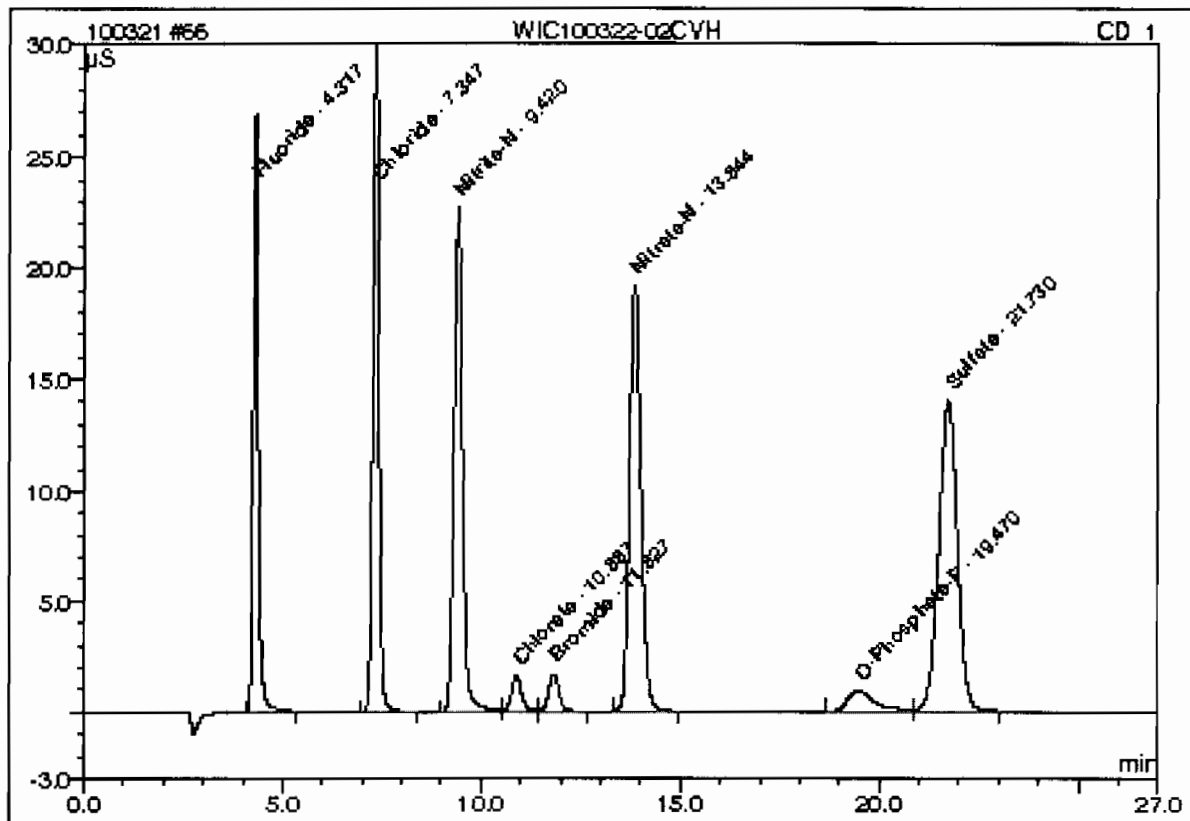
This is runlog for Sequence 100321.seq for IC7

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
248408015	03/22/10 00:02	966234	1	100321	GXM3
CCV	03/22/10 00:32		1	100321	GXM3
CCB	03/22/10 01:02		1	100321	GXM3
248408016	03/22/10 01:32	966234	1	100321	GXM3
248408017	03/22/10 02:02	966234	1	100321	GXM3
248408018	03/22/10 02:32	966234	1	100321	GXM3
1202073549	03/22/10 03:02	966234	1	100321	GXM3
1202073551	03/22/10 03:31	966234	1	100321	GXM3
1202073553	03/22/10 04:01	966234	1	100321	GXM3
CVH	03/22/10 04:31		1	100321	GXM3
CCB	03/22/10 05:01		1	100321	GXM3
1202073652	03/22/10 05:31	966269	1	100321	GXM3
1202073656	03/22/10 06:01	966269	1	100321	GXM3
248531001	03/22/10 06:31	966269	1	100321	GXM3
1202073653	03/22/10 07:01	966269	1	100321	GXM3
1202073654	03/22/10 07:31	966269	1	100321	GXM3
1202073655	03/22/10 08:00	966269	1	100321	GXM3
248531002	03/22/10 08:30	966269	1	100321	GXM3
248531003	03/22/10 09:00	966269	1	100321	GXM3
248531004	03/22/10 09:30	966269	1	100321	GXM3
248531005	03/22/10 10:00	966269	1	100321	GXM3
CCV	03/22/10 10:30		1	100321	GXM3
CCB	03/22/10 11:00		1	100321	GXM3
248531006	03/22/10 11:30	966269	1	100321	GXM3
248531007	03/22/10 12:00	966269	1	100321	GXM3
248531008	03/22/10 12:30	966269	1	100321	GXM3
248531009	03/22/10 13:00	966269	1	100321	GXM3
248531010	03/22/10 13:29	966269	1	100321	GXM3

CVH	03/22/10 13:59	1	100321	GXM3
CCB	03/22/10 14:29	1	100321	GXM3
1202073473	03/22/10 14:59 966200 1		100321	GXM3
1202073480	03/22/10 15:29 966200 1		100321	GXM3
248198001	03/22/10 15:59 966200 1		100321	GXM3
1202073474	03/22/10 16:29 966200 1		100321	GXM3
1202073476	03/22/10 16:59 966200 1		100321	GXM3
1202073478	03/22/10 17:29 966200 1		100321	GXM3
248198002	03/22/10 17:59 966200 1		100321	GXM3
248198003	03/22/10 18:28 966200 1		100321	GXM3
248198004	03/22/10 18:58 966200 1		100321	GXM3
248198005	03/22/10 19:28 966200 1		100321	GXM3
CCV	03/22/10 19:58	1	100321	GXM3
CCB	03/22/10 20:28	1	100321	GXM3
248198006	03/22/10 20:58 966200 1		100321	GXM3
248198007	03/22/10 21:28 966200 1		100321	GXM3
248198008	03/22/10 21:58 966200 1		100321	GXM3
248198009	03/22/10 22:28 966200 1		100321	GXM3
248198010	03/22/10 22:58 966200 1		100321	GXM3
248198011	03/22/10 23:27 966200 1		100321	GXM3
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66 WIC100322-02CVH

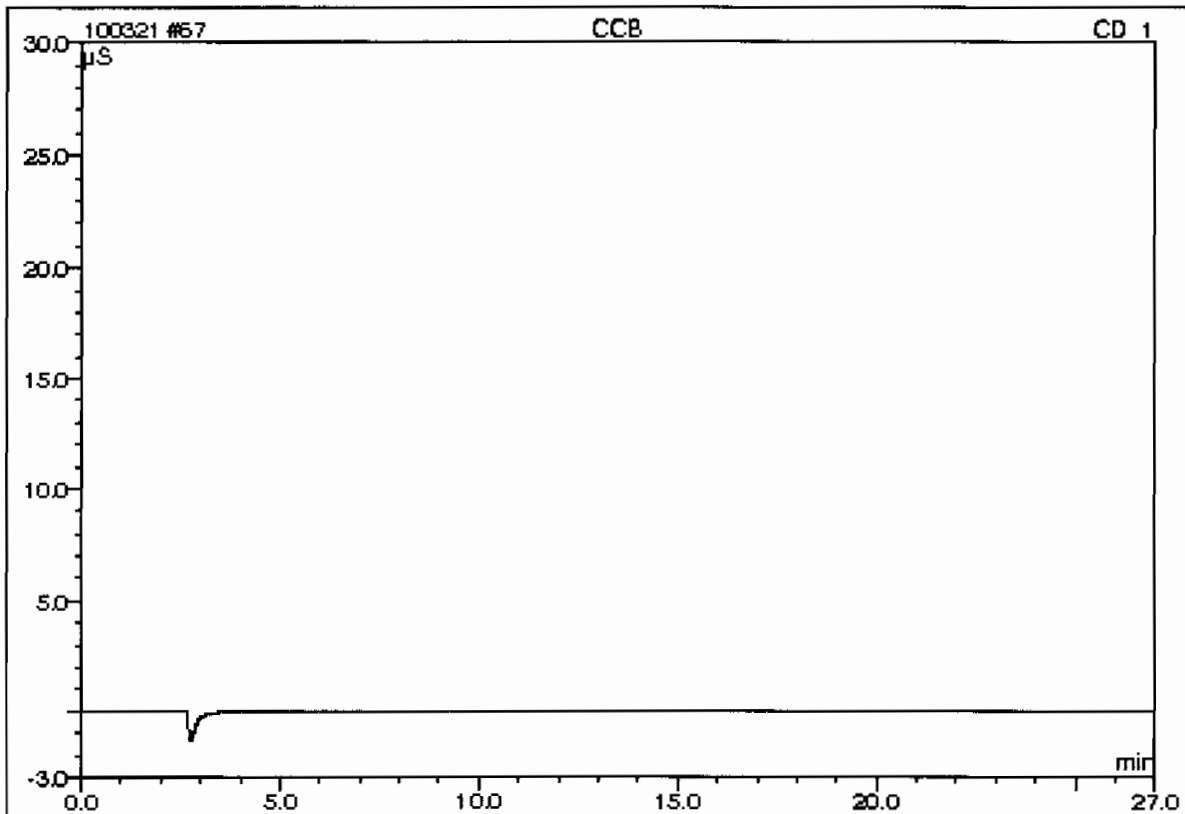
Sample Name:	WIC100322-02CVH	Injection Volume:	50.0
Vial Number:	3	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 13:59	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; 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.	7.7750		3.87120	12.87
2	7.35	Chloride	n.a.	15.1385		5.47664	17.93
3	9.42	Nitrite-N	n.a.	7.6168		5.58349	18.21
4	10.89	Chlorate	n.a.	3.9121		0.47045	1.54
5	11.83	Bromide	n.a.	3.8621		0.49566	1.62
6	13.84	Nitrate-N	n.a.	7.5857		6.38182	20.89
7	19.47	O-Phosphate-P	n.a.	2.8595		0.75345	2.47
8	21.73	Sulfate	n.a.	30.4621		7.54037	24.68
Total:				79.2118	0.000	30.553	100.00

67 CCB

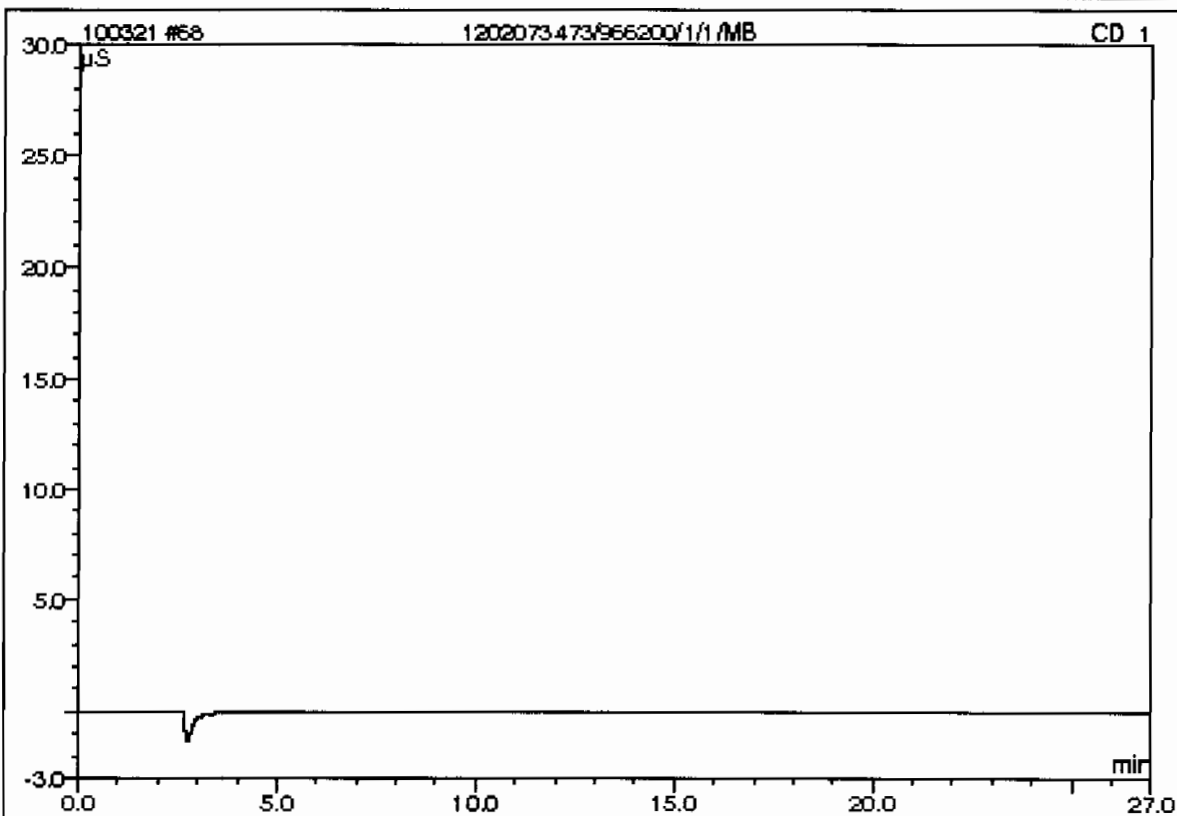
Sample Name:	CCB	Injection Volume:	50.0
Vial Number:	4	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 14:29	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;8056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area uS*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

68 1202073473/966200/1/1/MB

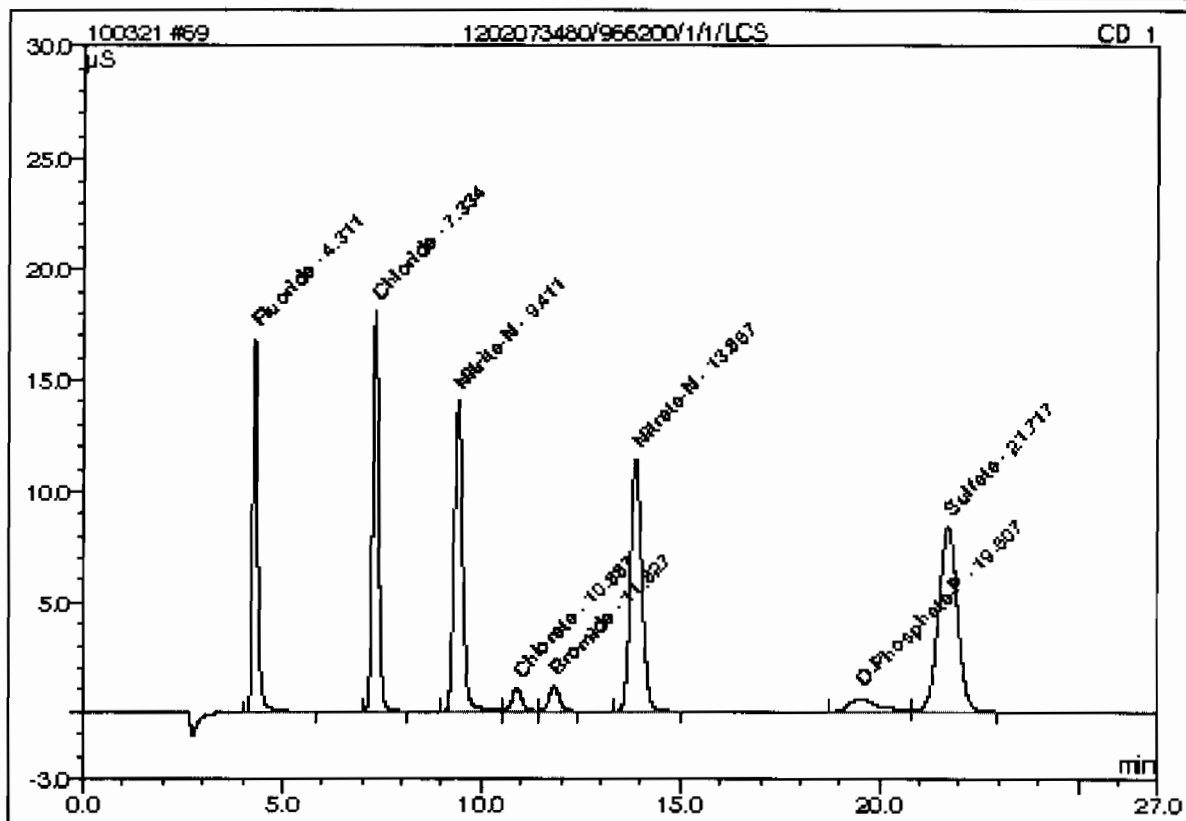
Sample Name:	1202073473/966200/1/1/MB	Injection Volume:	50.0
Vial Number:	5	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 14:59	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

69 1202073480/966200/1/1/LCS

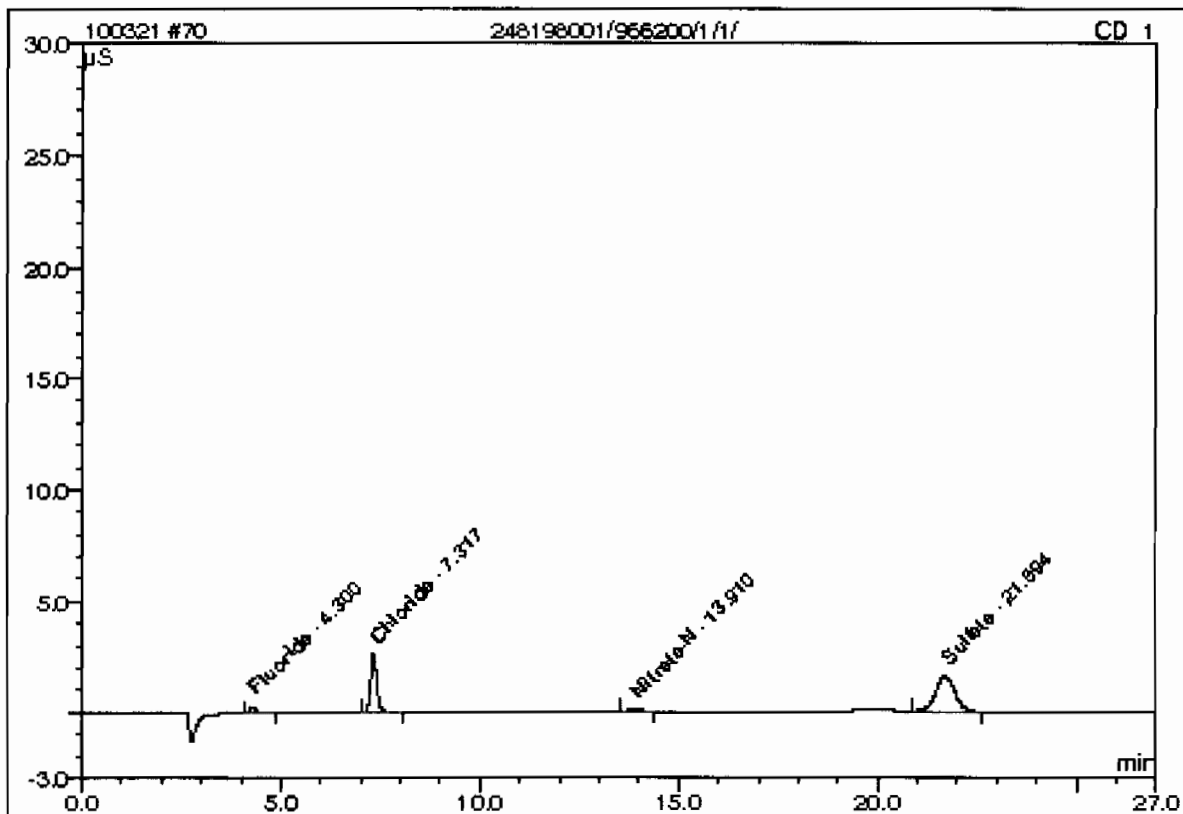
Sample Name:	1202073480/966200/1/1/LCS	Injection Volume:	50.0
Vial Number:	8	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 15:29	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	4.8640		2.41134	12.94
2	7.33	Chloride	n.a.	9.0661		3.25683	17.48
3	9.41	Nitrite-N	n.a.	4.6988		3.41939	18.35
4	10.89	Chlorate	n.a.	2.5157		0.30182	1.62
5	11.83	Bromide	n.a.	2.5247		0.32315	1.73
6	13.87	Nitrate-N	n.a.	4.5861		3.82662	20.53
7	19.51	O-Phosphate-P	n.a.	1.8973		0.49935	2.68
8	21.72	Sulfate	n.a.	18.6937		4.59803	24.67
Total:				48.8464	0.000	18.637	100.00

70 248198001/966200/1/1/

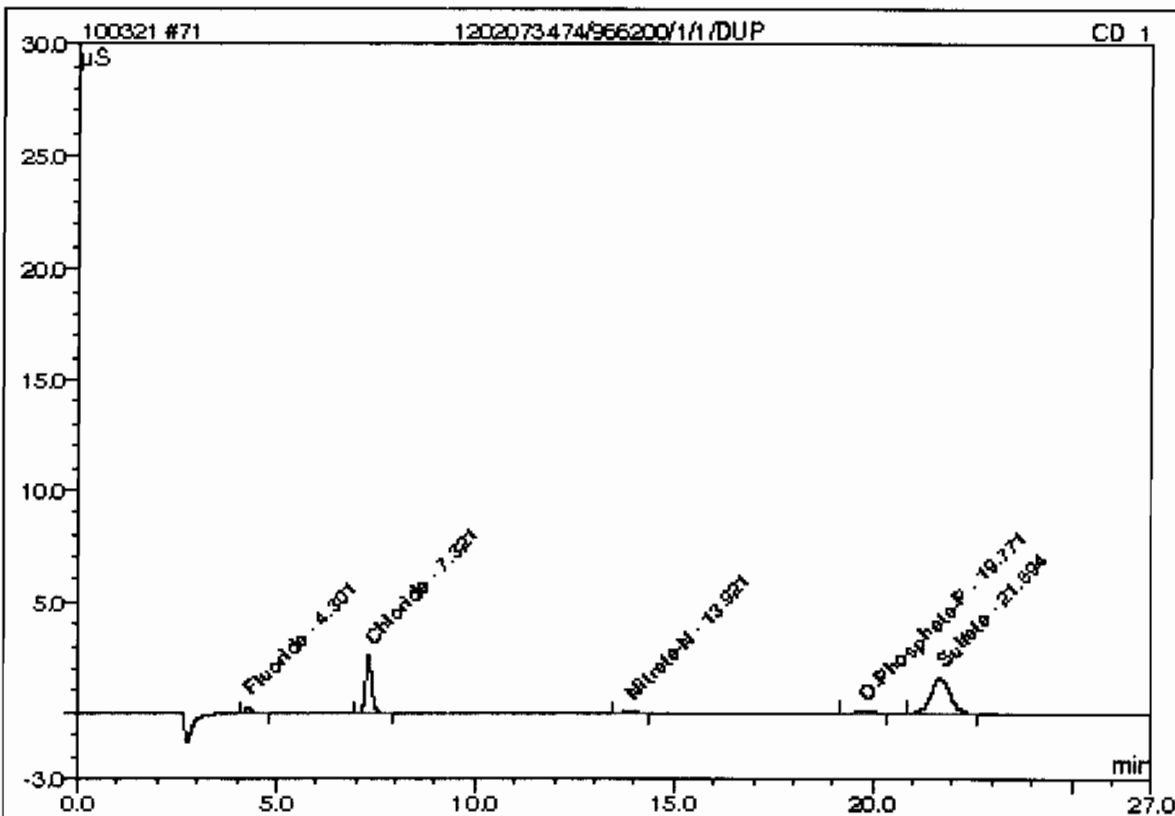
Sample Name:	248198001/966200/1/1/	Injection Volume:	50.0
Vial Number:	7	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 15:59	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86;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.	0.1477		0.04609	3.21
2	7.32	Chloride	n.a.	1.4696		0.47983	33.39
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.	0.1327		0.03305	2.30
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.69	Sulfate	n.a.	3.8146		0.87796	61.10
Total:				5.5645	0.000	1.437	100.00

71 1202073474/966200/1/1/DUP

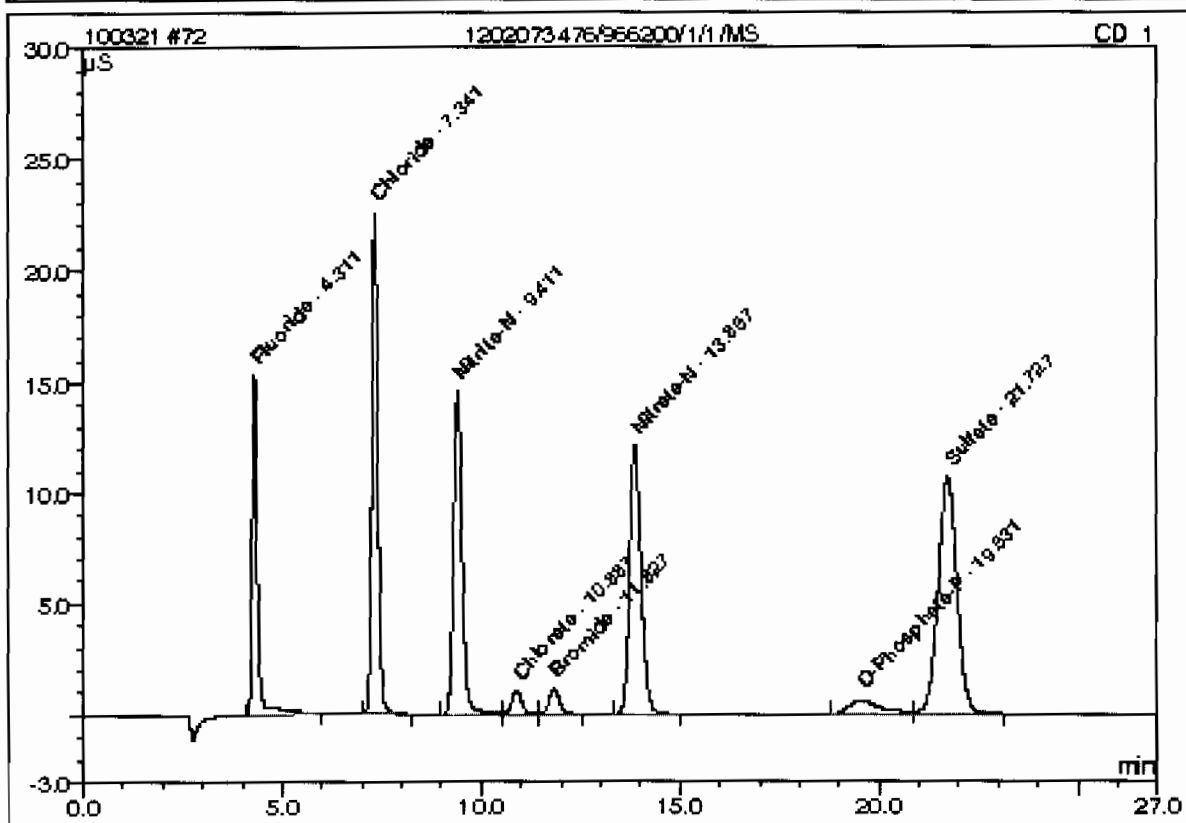
Sample Name:	1202073474/966200/1/1/DUP	Injection Volume:	50.0
Vial Number:	8	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 16:29	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC E086;300;8056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area uS*min	Rel.Area %
1	4.30	Fluoride	n.a.	0.1476		0.04806	3.15
2	7.32	Chloride	n.a.	1.4669		0.47886	32.80
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.	0.1337		0.03391	2.32
4	19.77	O-Phosphate-P	n.a.	0.0831		0.02024	1.39
5	21.69	Sulfate	n.a.	3.8269		0.88103	60.34
Total:				5.6582	0.000	1.460	100.00

72 1202073476/966200/1/1/MS

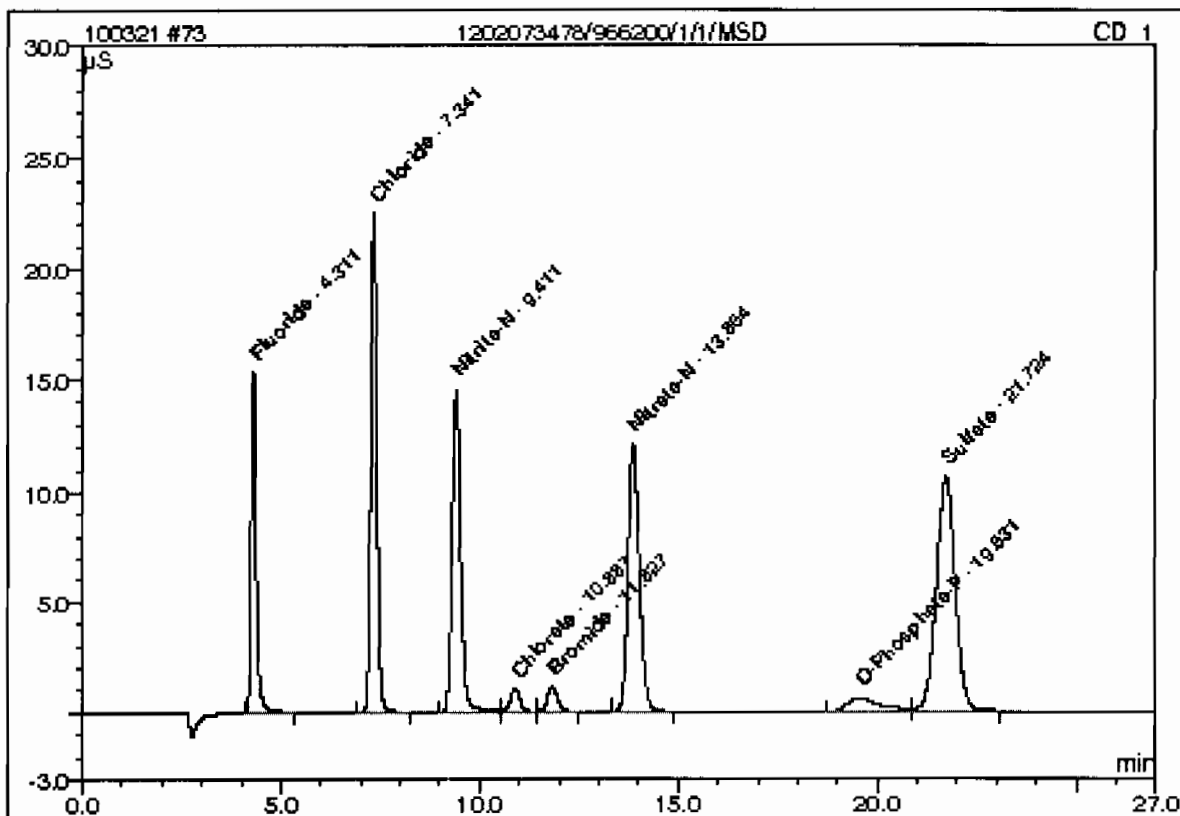
Sample Name:	1202073476/966200/1/1/MS	Injection Volume:	50.0
Vial Number:	9	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 16:59	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	4.7891		2.36372	11.27
2	7.34	Chloride	n.a.	11.2180		4.04347	19.27
3	9.41	Nitrite-N	n.a.	4.8846		3.55591	16.95
4	10.89	Chlorate	n.a.	2.5256		0.30302	1.44
5	11.83	Bromide	n.a.	2.5399		0.32510	1.55
6	13.87	Nitrate-N	n.a.	4.8603		4.06022	19.35
7	19.53	O-Phosphate-P	n.a.	2.0654		0.54374	2.59
8	21.73	Sulfate	n.a.	23.4484		5.78679	27.58
Total:				56.3111	0.000	20.982	100.00

73 1202073478/966200/1/1/MSD

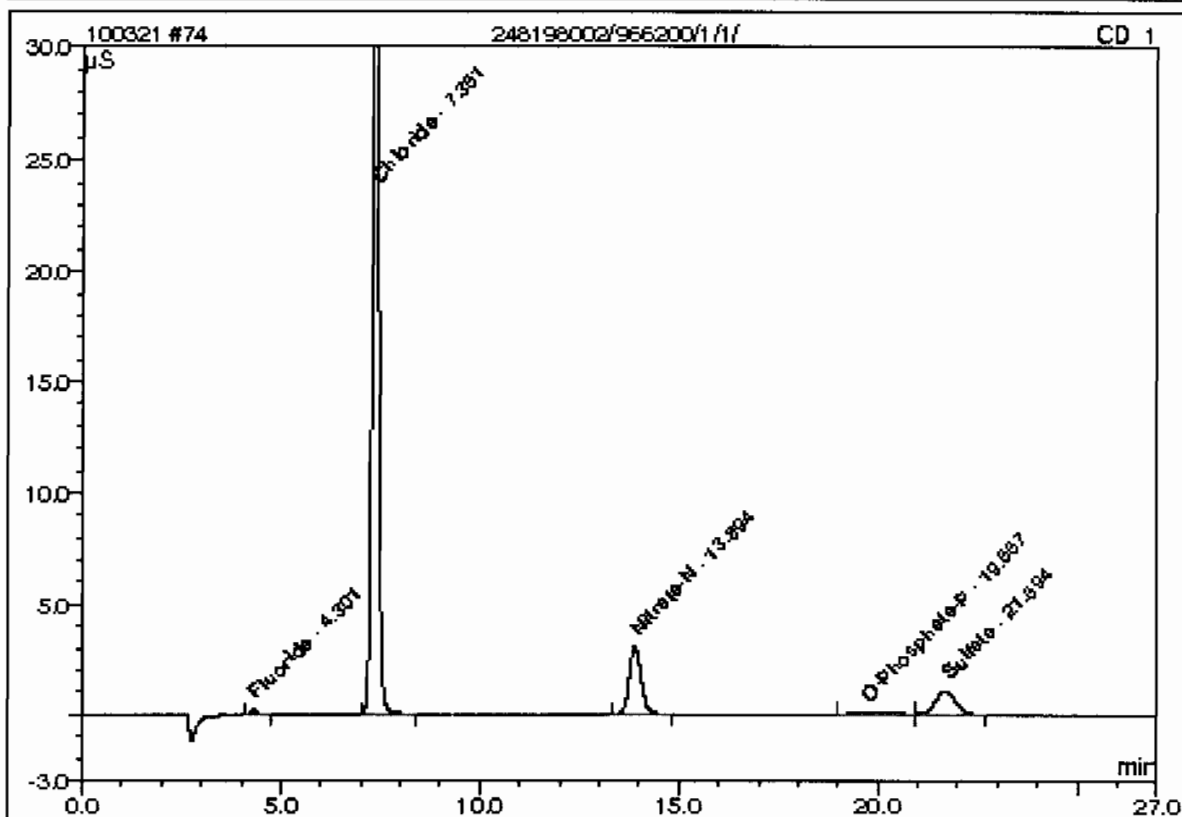
Sample Name:	1202073478/966200/1/1/MSD	Injection Volume:	50.0
Vial Number:	10	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 17:29	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	4.4267		2.19200	10.52
2	7.34	Chloride	n.a.	11.2170		4.04308	19.41
3	9.41	Nitrite-N	n.a.	4.8891		3.55921	17.09
4	10.89	Chlorate	n.a.	2.5182		0.30212	1.45
5	11.83	Bromide	n.a.	2.5296		0.32378	1.55
6	13.86	Nitrate-N	n.a.	4.8566		4.05704	19.48
7	19.53	O-Phosphate-P	n.a.	2.1195		0.55803	2.68
8	21.72	Sulfate	n.a.	23.4738		5.79315	27.81
Total:				56.0303	0.000	20.828	100.00

74 248198002/966200/1/1/

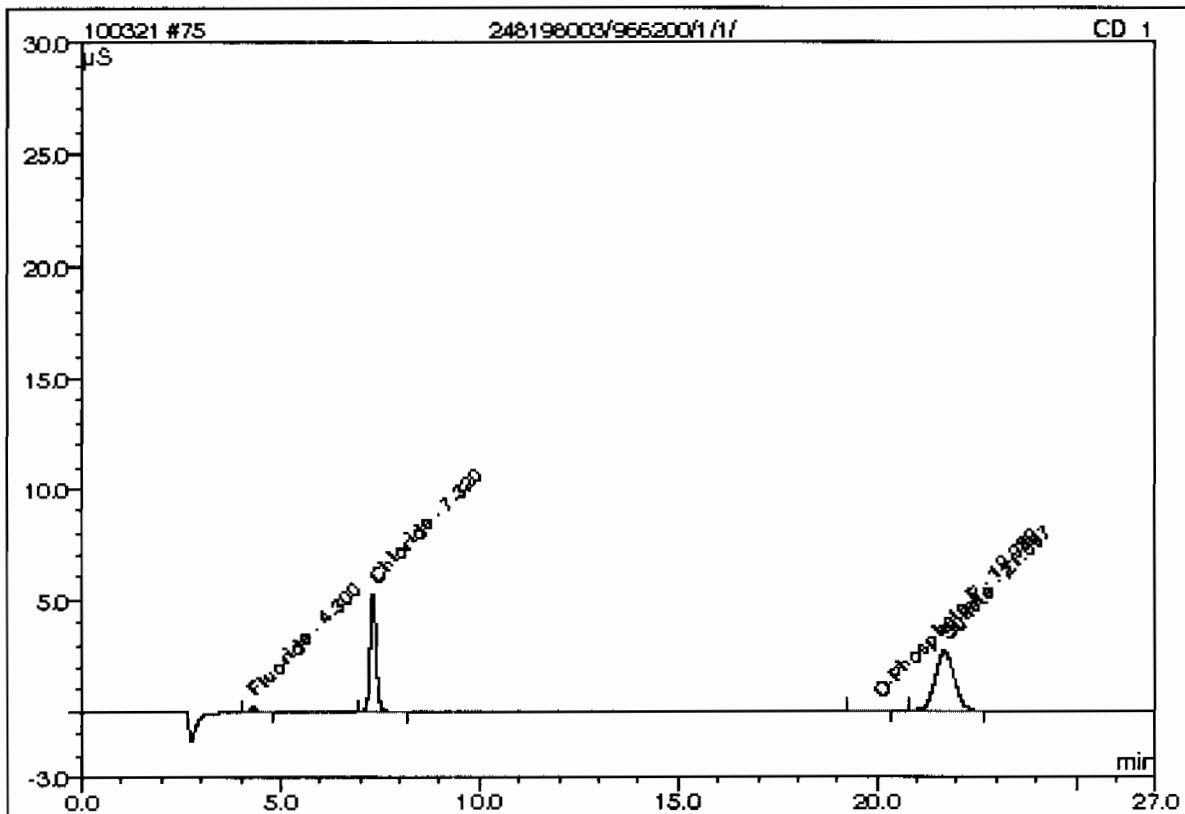
Sample Name:	248198002/966200/1/1/	Injection Volume:	50.0
Vial Number:	11	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight	1.0000
Quantif. Method:	100317.an	Sample Amount:	1.0000
Recording Time:	3/22/2010 17:59	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	0.1157		0.03004	0.32
2	7.36	Chloride	n.a.	20.7288		7.52023	80.63
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.89	Nitrate-N	n.a.	1.3326		1.05522	11.31
4	19.67	O-Phosphate-P	n.a.	0.4077		0.10596	1.14
5	21.69	Sulfate	n.a.	2.7636		0.61520	6.60
Total:				25.3484	0.000	9.327	100.00

75 248198003/966200/1/1/

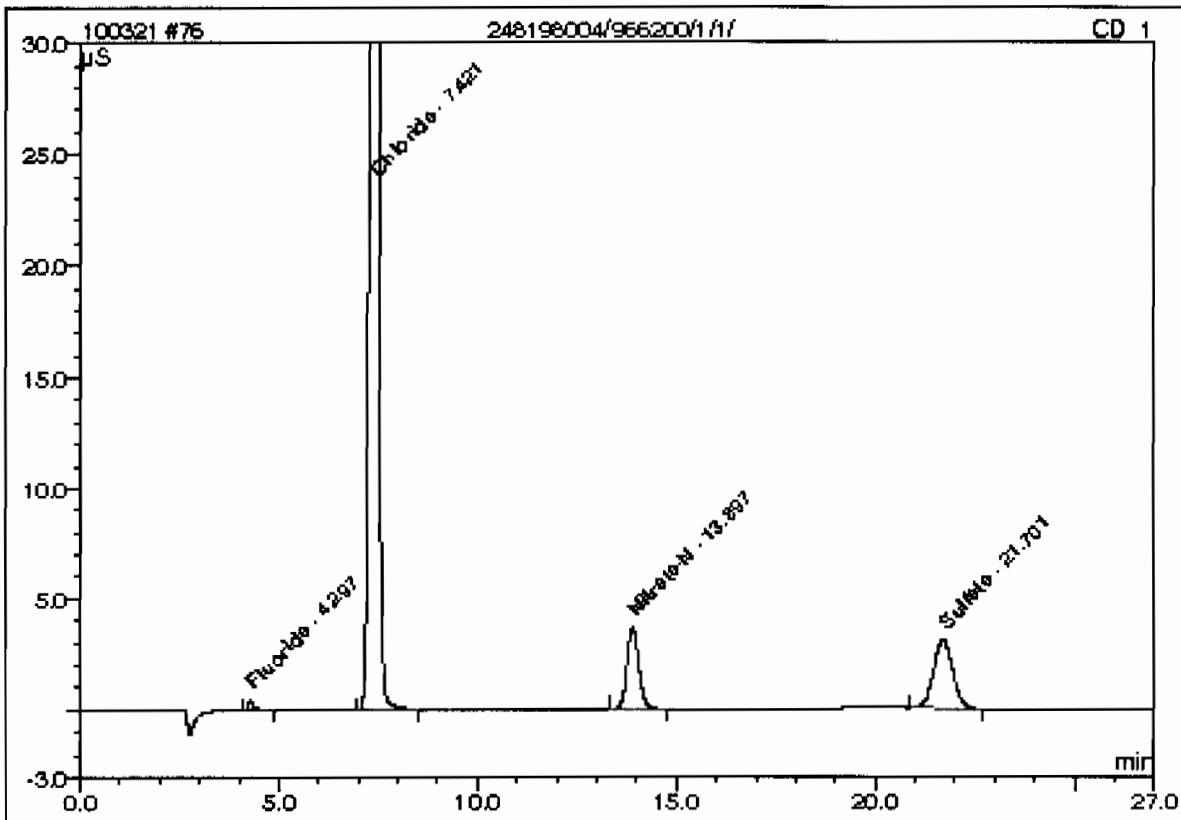
Sample Name:	248198003/966200/1/1/	Injection Volume:	50.0
Vial Number:	12	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 18:28	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area $\mu\text{S} \cdot \text{min}$	Rel.Area %
1	4.30	Fluoride	n.a.	0.1194		0.03192	1.28
2	7.32	Chloride	n.a.	2.8257		0.97557	39.17
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.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
3	19.98	O-Phosphate-P	n.a.	0.0525		0.01217	0.49
4	21.70	Sulfate	n.a.	6.1857		1.47077	59.06
Total:				9.1833	0.000	2.490	100.00

76 248198004/966200/1/1/

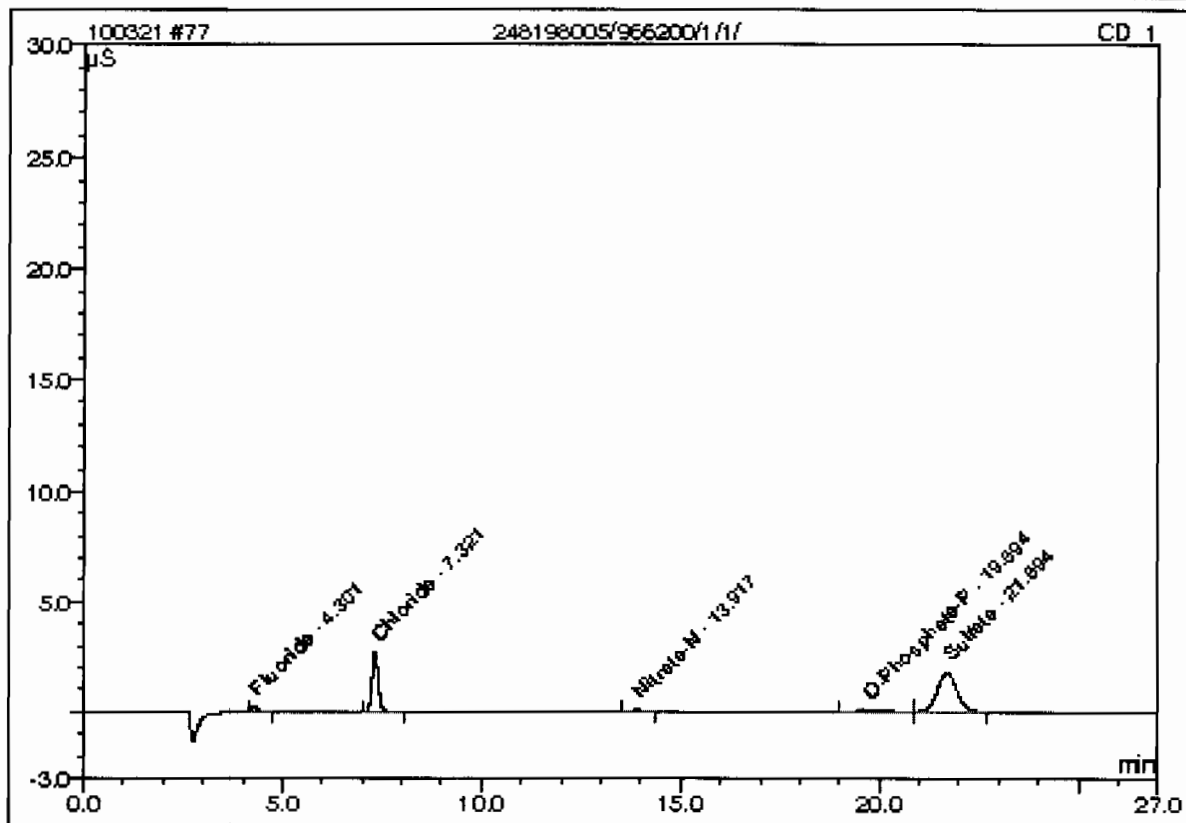
Sample Name:	248198004/966200/1/1/	Injection Volume:	50.0
Vial Number:	13	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 18:58	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; 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.	0.1841		0.06438	0.27
2	7.42	Chloride	n.a.	56.1867		20.48225	87.21
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.	1.5625		1.25102	5.33
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.70	Sulfate	n.a.	7.0577		1.68880	7.19
Total:				64.9910	0.000	23.486	100.00

77 248198005/966200/1/1/

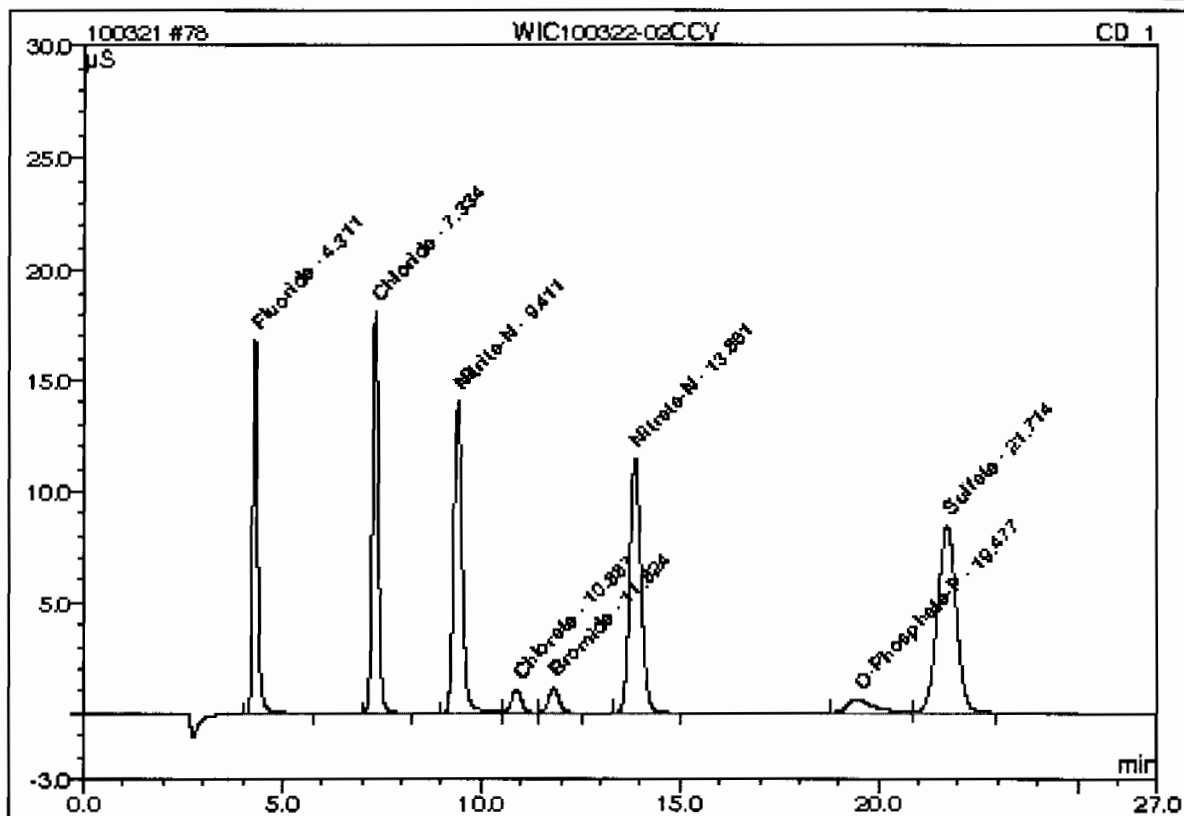
Sample Name:	248198005/966200/1/1/	Injection Volume:	50.0
Vial Number:	14	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 19:28	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	0.1360		0.04025	2.43
2	7.32	Chloride	n.a.	1.5469		0.50808	30.72
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.	0.1136		0.01680	1.02
4	19.69	O-Phosphate-P	n.a.	0.2597		0.06689	4.04
5	21.69	Sulfate	n.a.	4.9009		1.02206	61.79
Total:				6.4471	0.000	1.654	100.00

78 WIC100322-02CCV

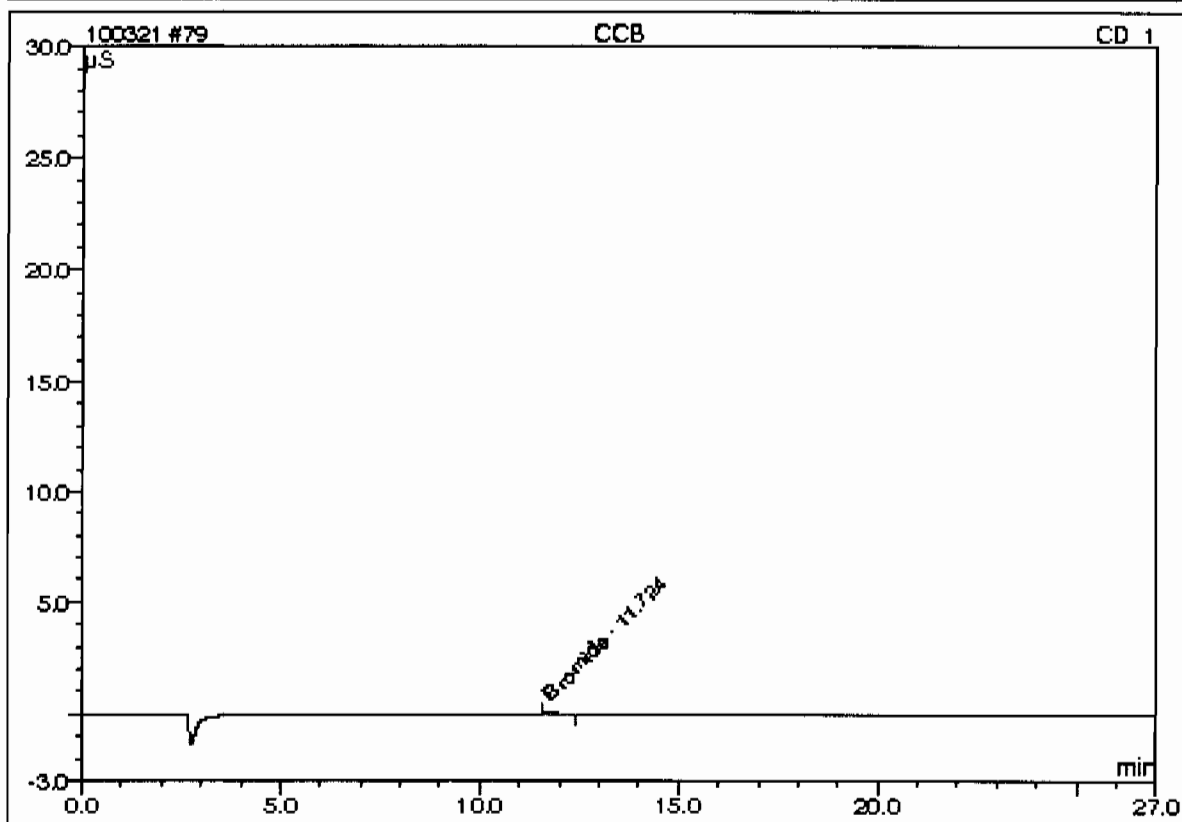
Sample Name:	WIC100322-02CCV	Injection Volume:	50.0
Vial Number:	15	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 19:58	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086; 300; 8056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel. Area %
1	4.31	Fluoride	n.a.	4.8636		2.41112	12.96
2	7.33	Chloride	n.a.	9.0674		3.25730	17.51
3	9.41	Nitrite-N	n.a.	4.6823		3.40731	18.31
4	10.89	Chlorate	n.a.	2.4392		0.29259	1.57
5	11.82	Bromide	n.a.	2.4967		0.31953	1.72
6	13.86	Nitrate-N	n.a.	4.5891		3.82922	20.58
7	19.48	O-Phosphate-P	n.a.	1.9003		0.50014	2.69
8	21.71	Sulfate	n.a.	18.6621		4.59013	24.67
Total:				48.7008	0.000	18.607	100.00

79 CCB

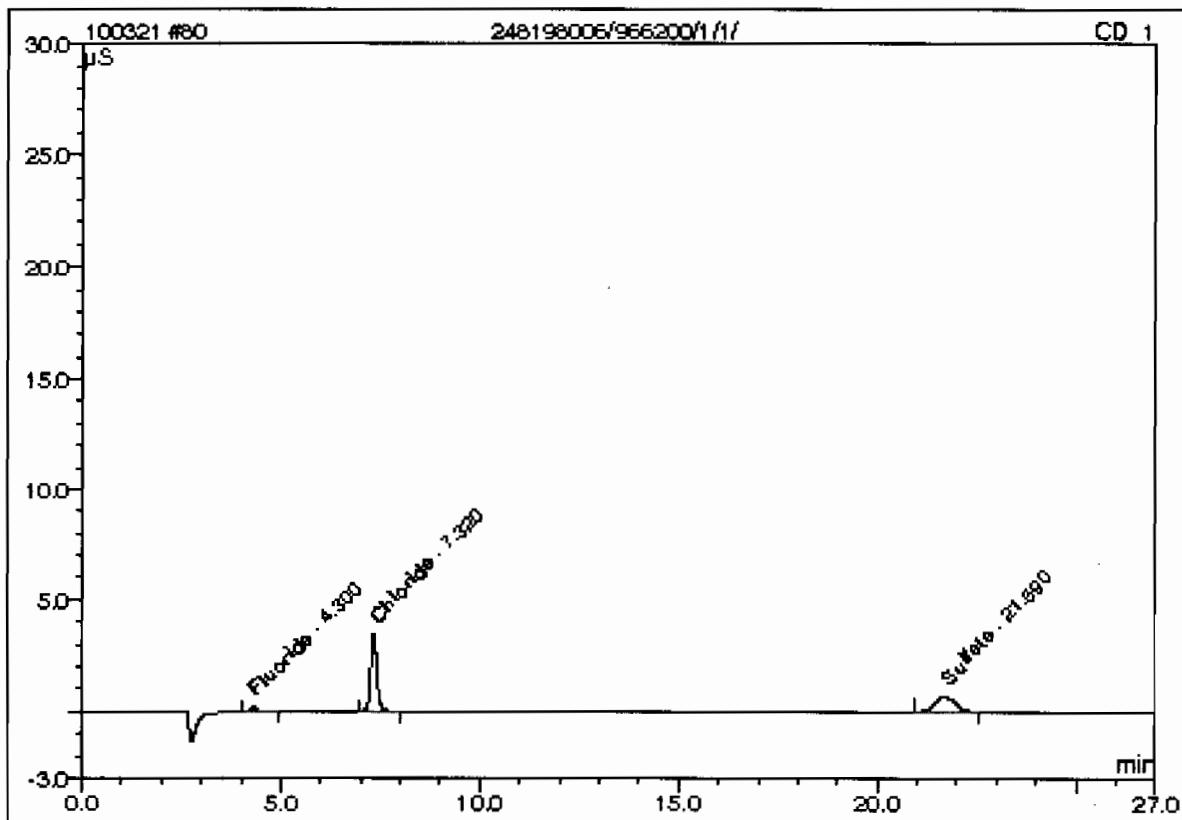
Sample Name:	CCB	Injection Volume:	50.0
Vial Number:	16	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 20:28	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC086;300;9056



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.
1	11.72	Bromide	n.a.	0.2160		0.02535	100.00
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:				0.2160	0.000	0.025	100.00

80 248198006/966200/1/1/

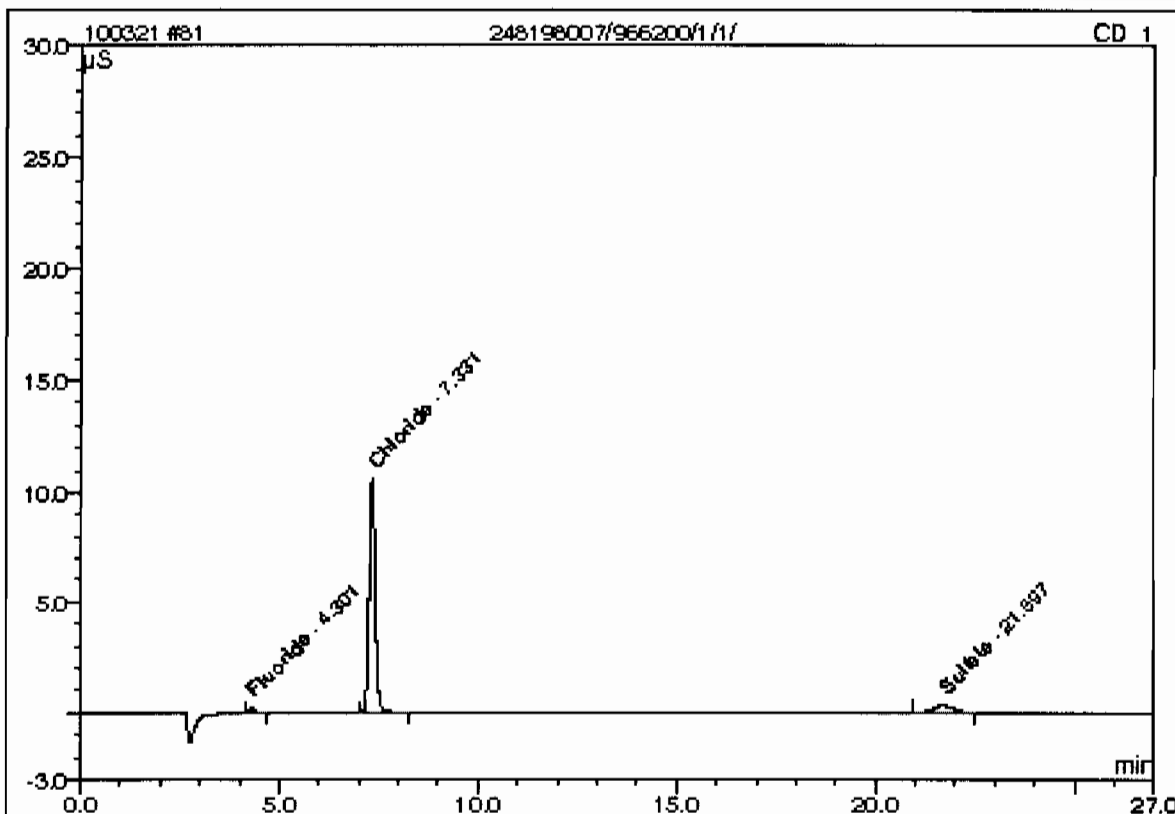
Sample Name:	248198006/966200/1/1/	Injection Volume:	50.0
Vial Number:	17	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 20:58	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	0.1278		0.03611	3.33
2	7.32	Chloride	n.a.	1.9246		0.64615	59.59
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	21.69	Sulfate	n.a.	1.9114		0.40212	37.08
Total:				3.9637	0.000	1.084	100.00

81 248198007/966200/1/1/

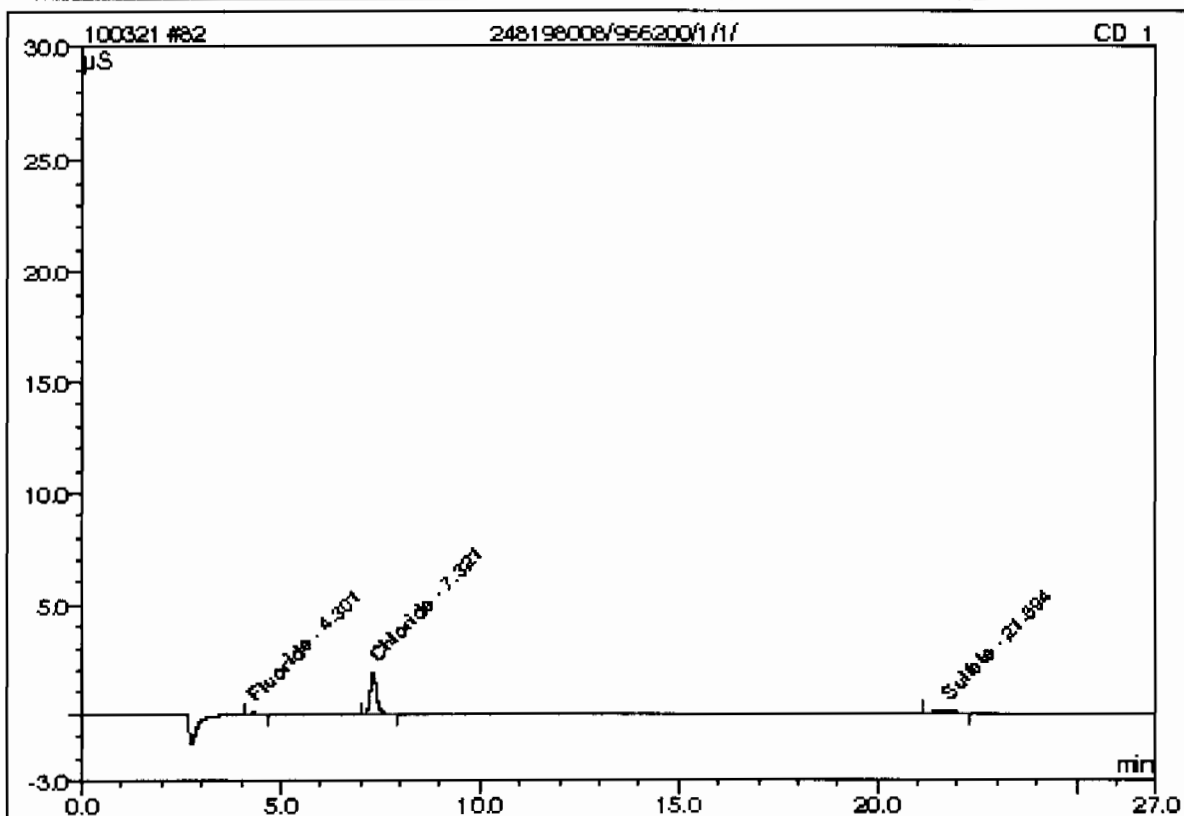
Sample Name:	248198007/966200/1/1/	Injection Volume:	50.0
Vial Number:	18	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 21:28	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;3056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.30	Fluoride	n.a.	0.1159		0.03016	1.42
2	7.33	Chloride	n.a.	5.4369		1.93013	90.77
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	21.70	Sulfate	n.a.	0.9678		0.16619	7.82
Total:				6.5206	0.000	2.126	100.00

82 248198008/966200/1/1/

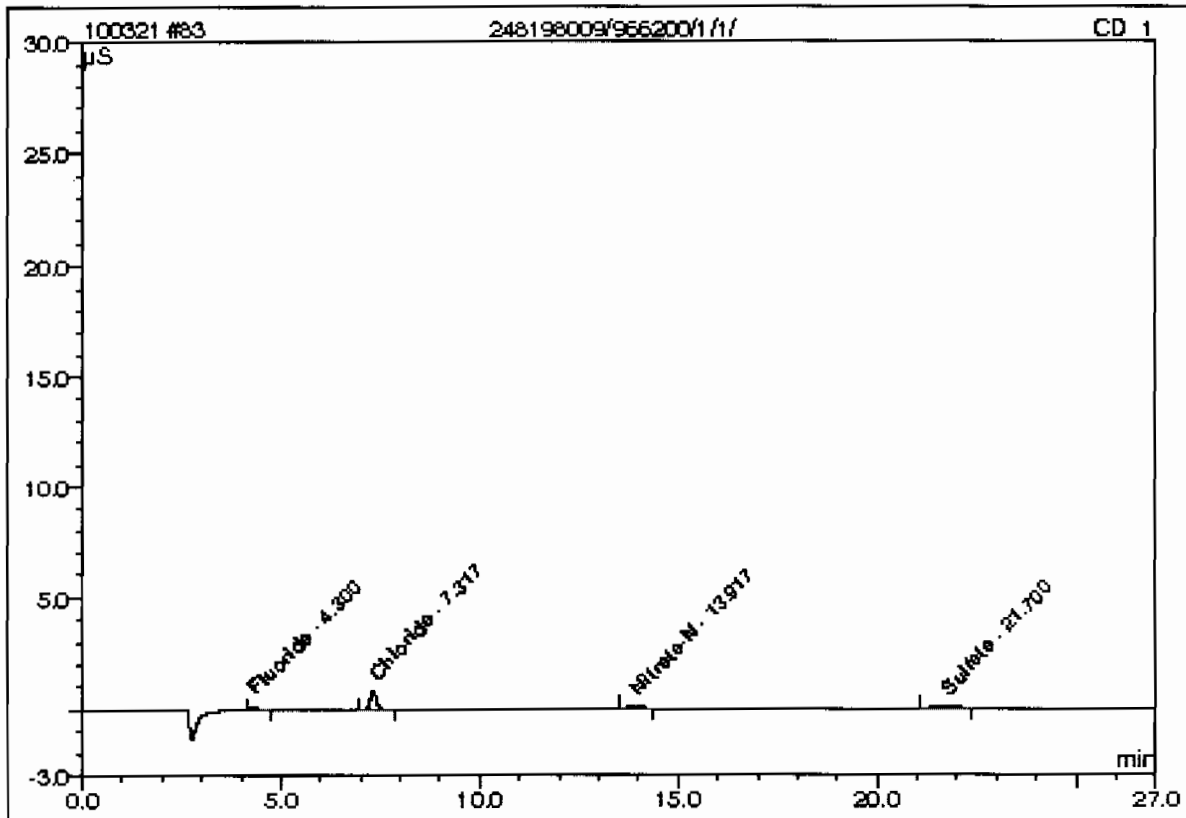
Sample Name:	248198008/966200/1/1/	Injection Volume:	50.0
Vial Number:	19	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 21:58	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	0.0806		0.01245	3.07
2	7.32	Chloride	n.a.	1.1228		0.35304	86.96
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
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	21.89	Sulfate	n.a.	0.4649		0.04048	9.97
Total:				1.6683	0.000	0.406	100.00

83 248198009/966200/1/1/

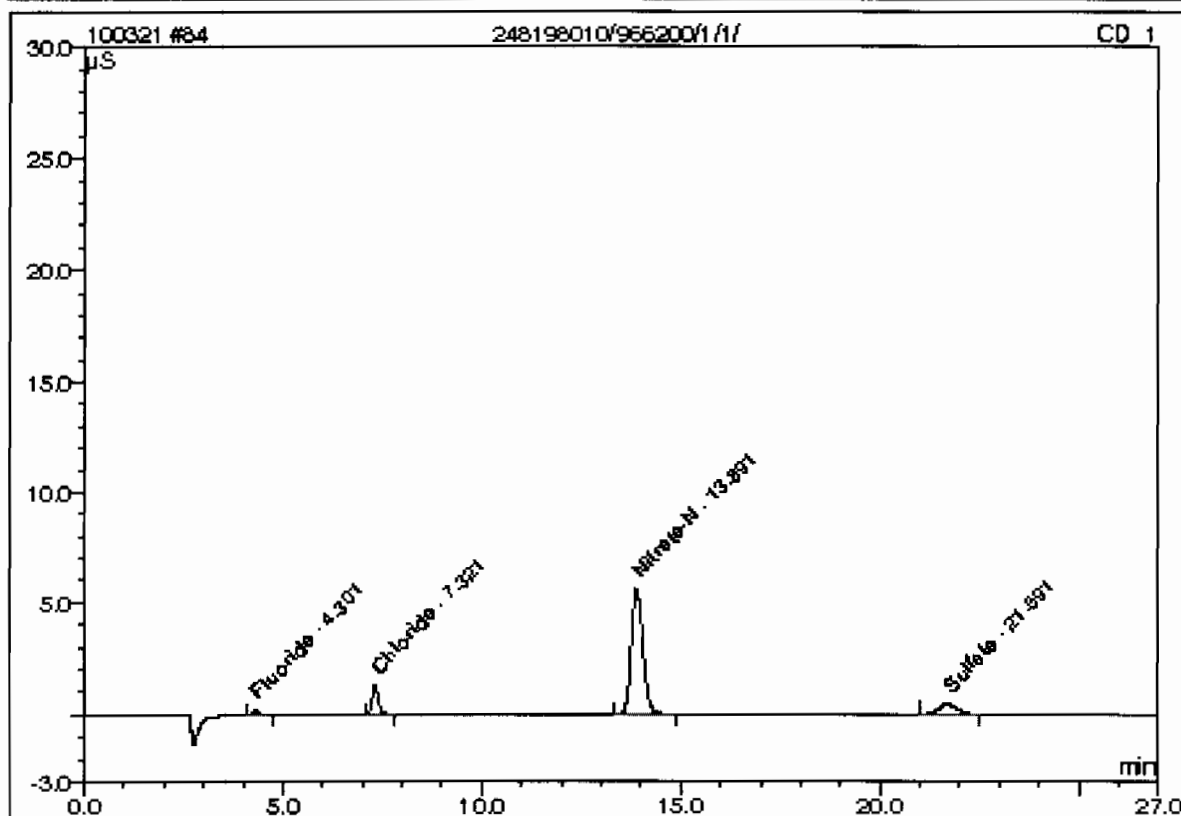
Sample Name:	248198009/966200/1/1/	Injection Volume:	50.0
Vial Number:	20	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 22:28	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	0.1088		0.02659	9.07
2	7.32	Chloride	n.a.	0.5923		0.15912	54.28
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.92	Nitrate-N	n.a.	0.1418		0.04083	13.93
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.70	Sulfate	n.a.	0.5695		0.06663	22.73
Total:				1.4124	0.000	0.293	100.00

84 248198010/966200/1/1/

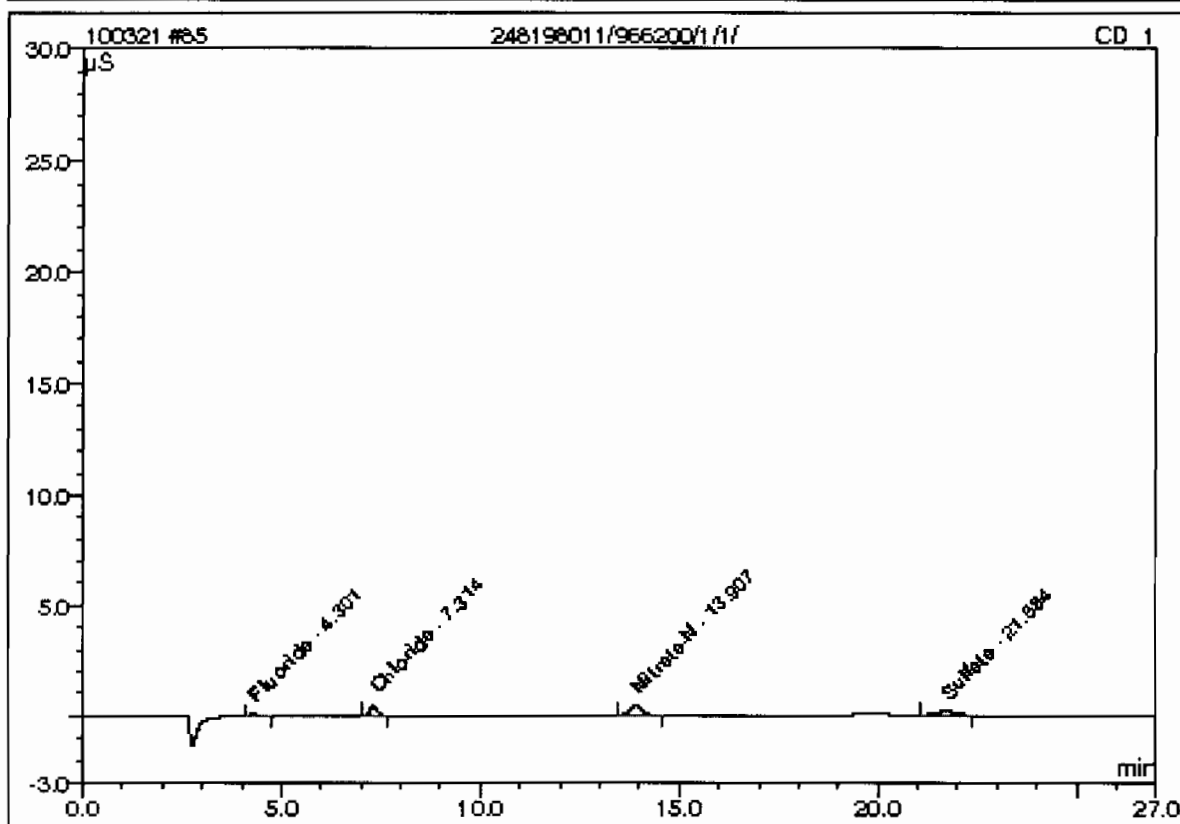
Sample Name:	248198010/966200/1/1/	Injection Volume:	50.0
Vial Number:	21	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 22:58	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; 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.	0.1221		0.03327	1.38
2	7.32	Chloride	n.a.	0.8251		0.24423	10.12
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	13.89	Nitrate-N	n.a.	2.3255		1.90097	78.79
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.89	Sulfate	n.a.	1.2405		0.23439	9.71
Total:				4.5132	0.000	2.413	100.00

85 248198011/966200/1/1/

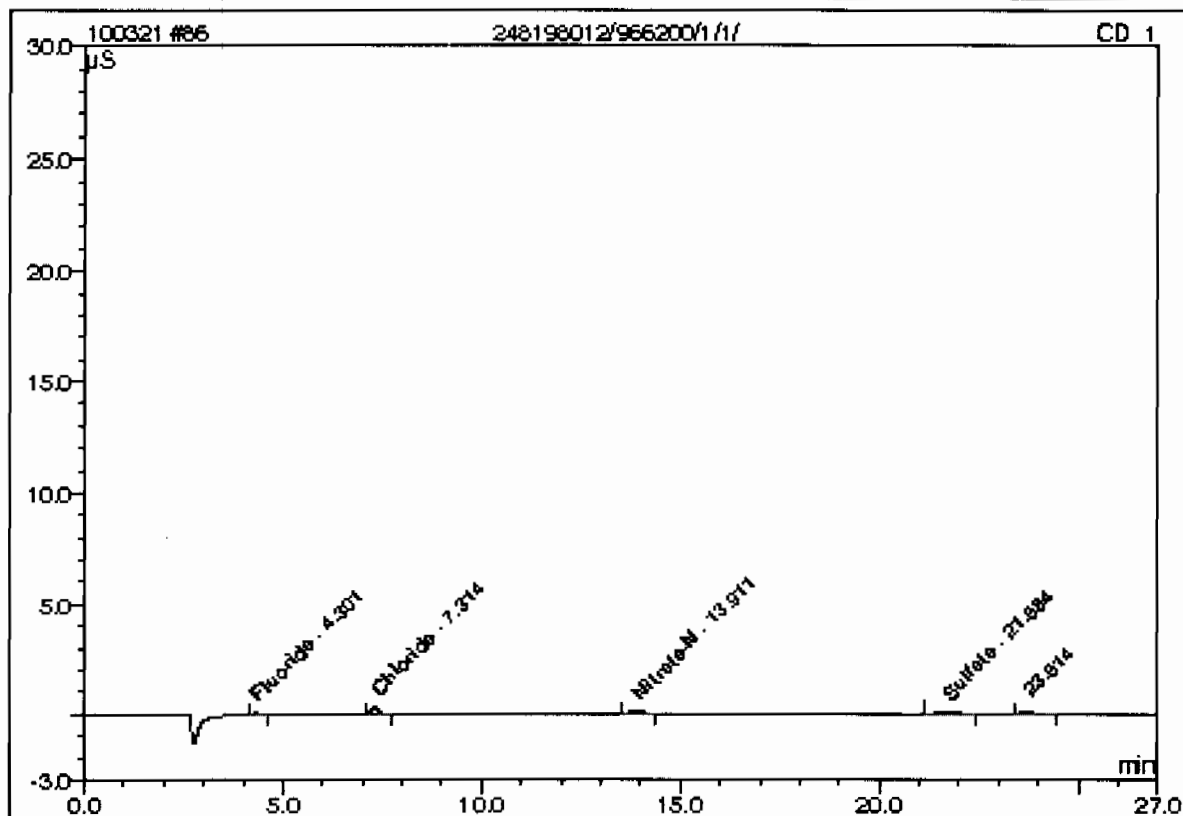
Sample Name:	248198011/966200/1/1/	Injection Volume:	50.0
Vial Number:	22	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/22/2010 23:27	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	0.0988		0.02158	5.96
2	7.31	Chloride	n.a.	0.4098		0.09242	25.54
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.	0.2875		0.16488	45.56
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.68	Sulfate	n.a.	0.6351		0.08301	22.94
Total:				1.4311	0.000	0.362	100.00

86 248198012/966200/1/1/

Sample Name:	248198012/966200/1/1/	Injection Volume:	50.0
Vial Number:	23	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:	3/22/2010 23:57	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



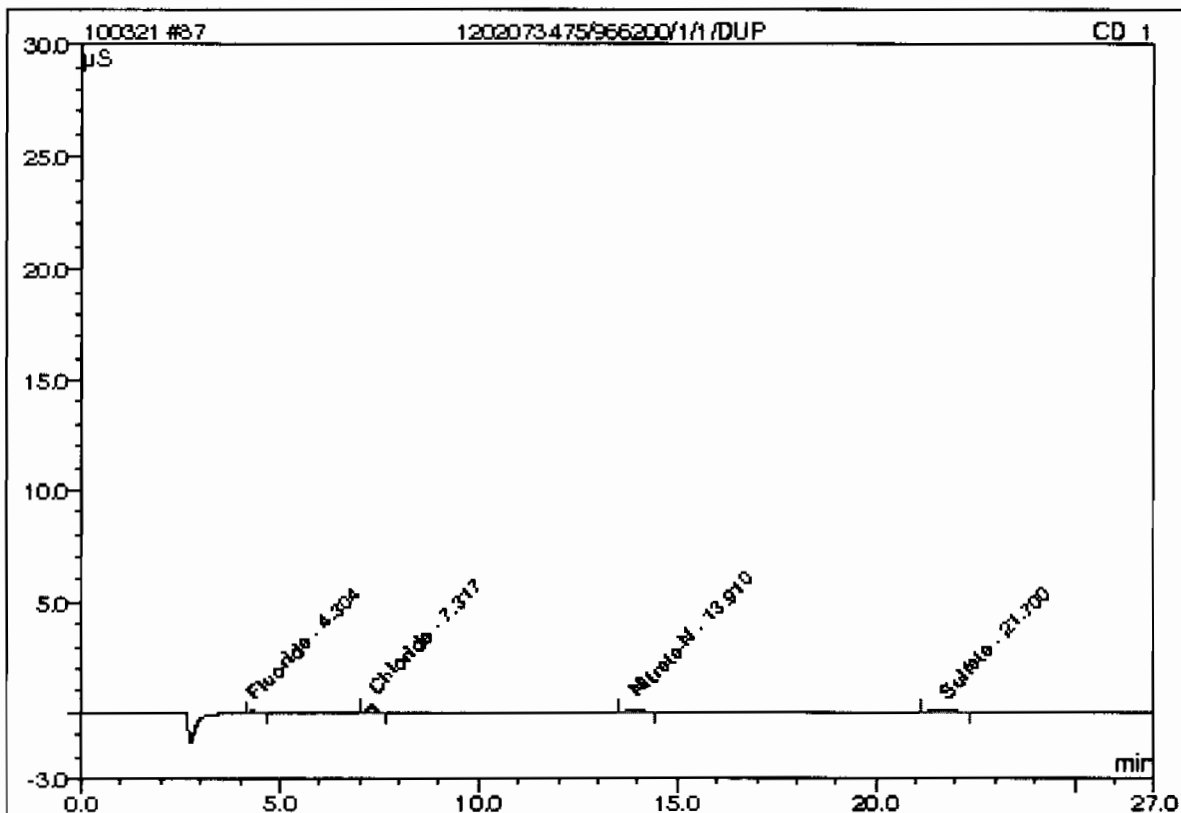
No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.30	Fluoride	n.a.	0.0843		0.01432	6.99
2	7.31	Chloride	n.a.	0.3245		0.06122	29.90
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.91	Nitrate-N	n.a.	0.1456		0.04404	21.51
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.68	Sulfate	n.a.	0.5259		0.05572	27.21
Total:				1.0803	0.000	0.175	85.61

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

87 1202073475/966200/1/1/DUP

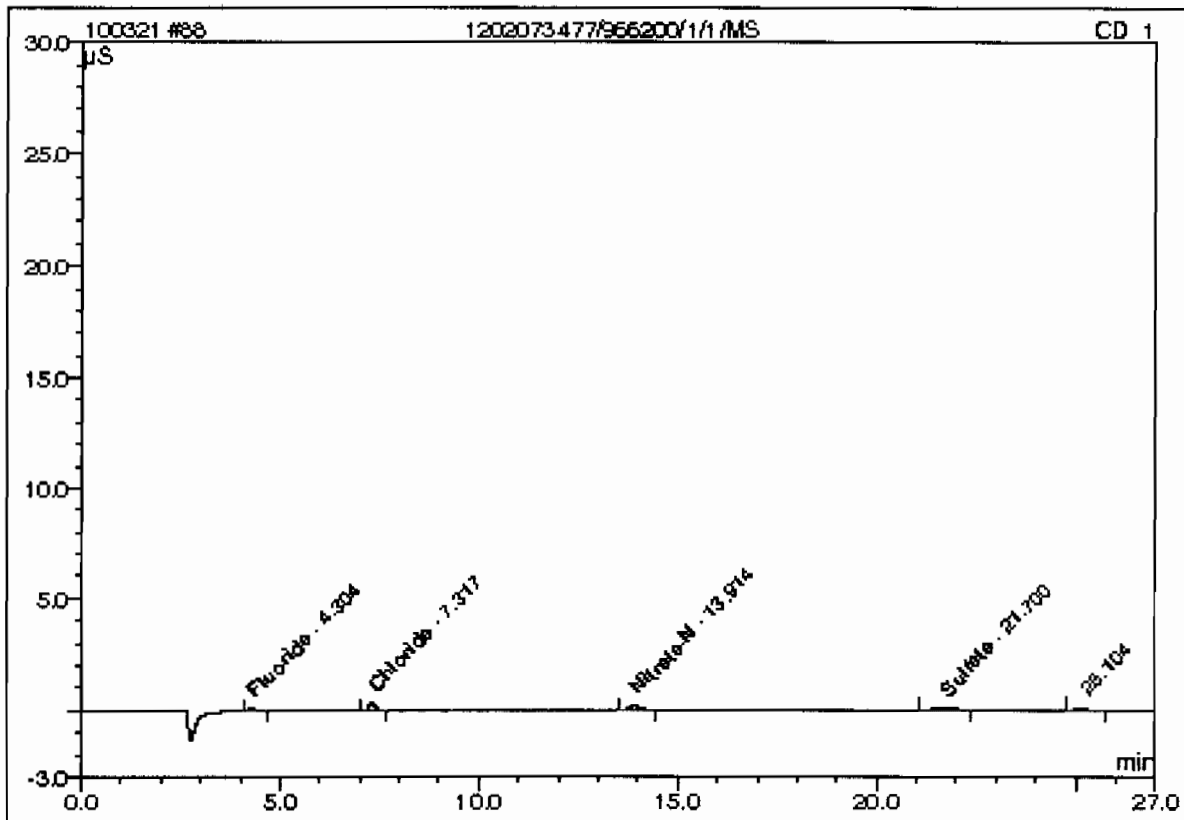
Sample Name:	1202073475/966200/1/1/DUP	Injection Volume:	50.0
Vial Number:	24	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 0:27	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	0.0843		0.01429	8.25
2	7.32	Chloride	n.a.	0.3216		0.06018	34.73
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.	0.1471		0.04533	26.16
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.70	Sulfate	n.a.	0.5169		0.05348	30.66
Total:				1.0699	0.000	0.173	100.00

88 1202073477/966200/1/1/MS

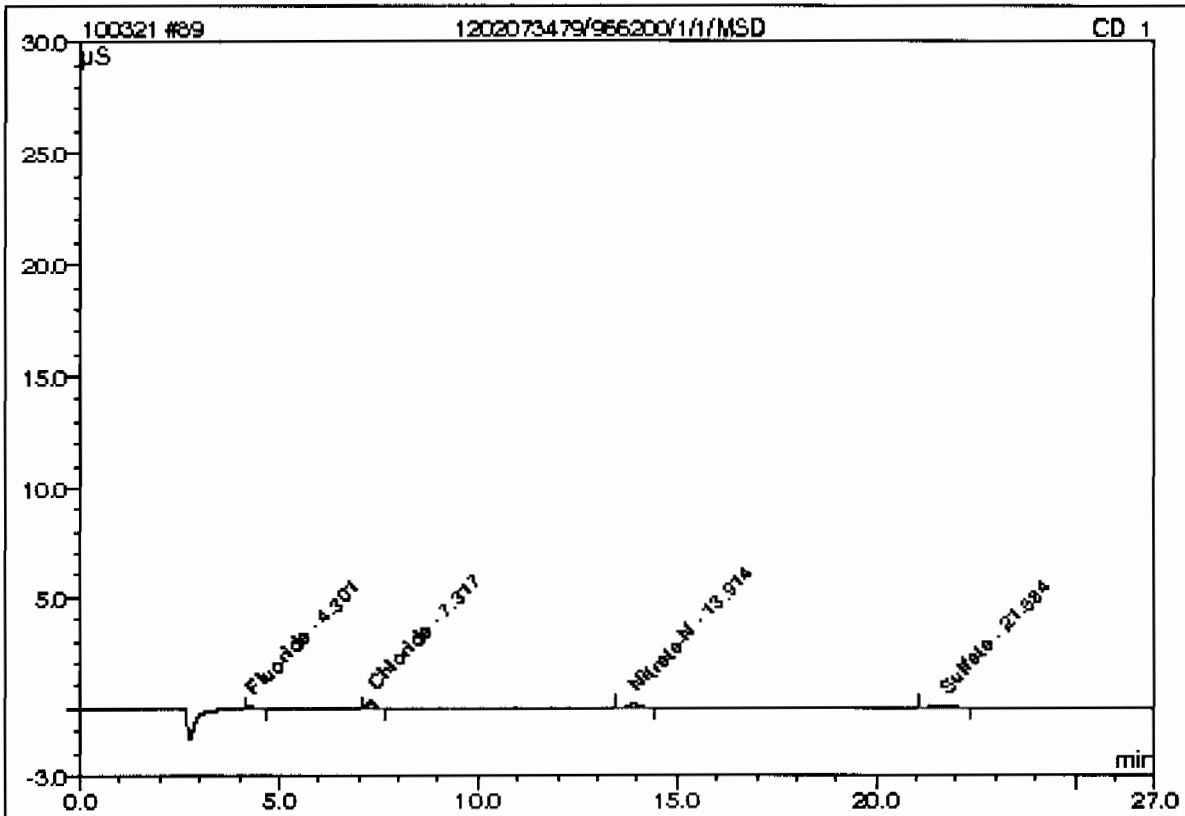
Sample Name:	1202073477/966200/1/1/MS	Injection Volume:	50.0
Vial Number:	25	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 0:57	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	0.0902		0.01729	8.22
2	7.32	Chloride	n.a.	0.3180		0.05887	27.98
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.	0.1632		0.05903	28.05
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.70	Sulfate	n.a.	0.5290		0.05650	26.85
Total:				1.1005	0.000	0.192	91.09

89 1202073479/966200/1/1/MSD

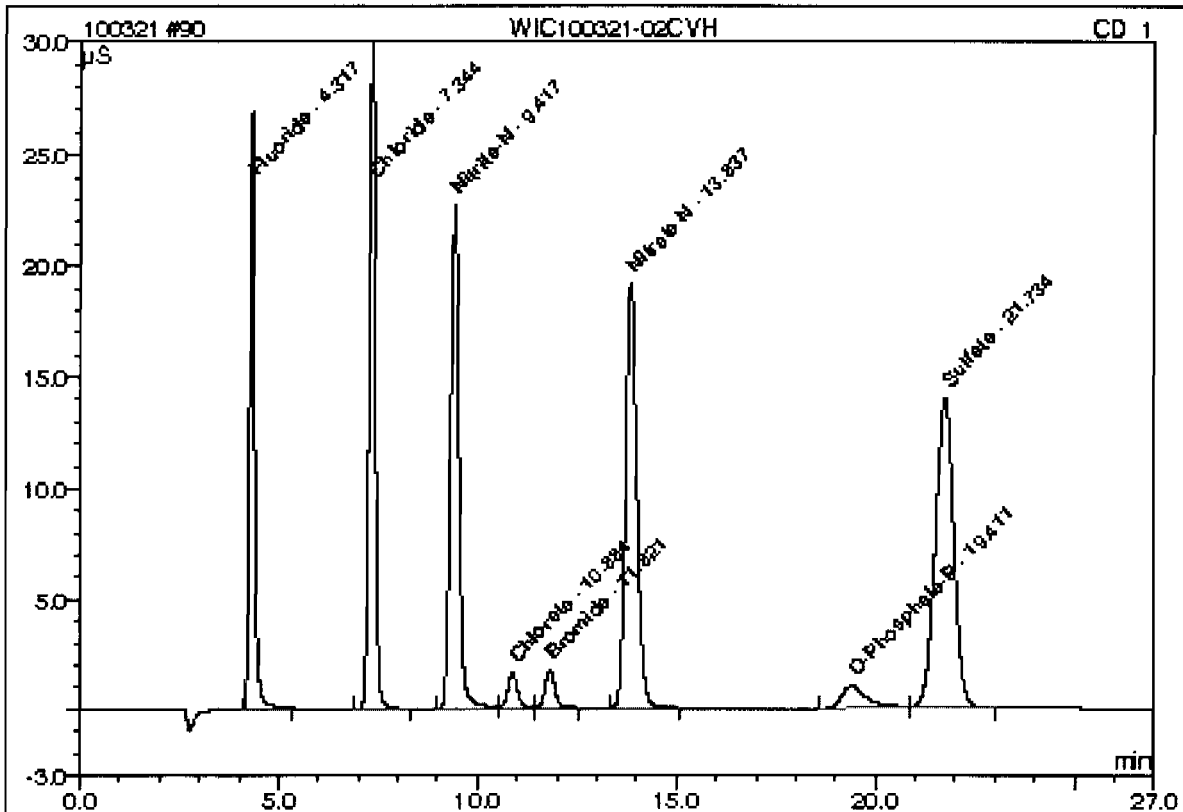
Sample Name:	1202073479/966200/1/1/MSD	Injection Volume:	50.0
Vial Number:	26	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 1:27	Analyst:	GXM3
Run Time (min):	27.00	Column:	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.	0.0904		0.01739	9.11
2	7.32	Chloride	n.a.	0.3173		0.05861	30.71
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.	0.1599		0.05625	29.48
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	21.68	Sulfate	n.a.	0.5373		0.05858	30.70
Total:				1.1050	0.000	0.191	100.00

90 WIC100321-02CVH

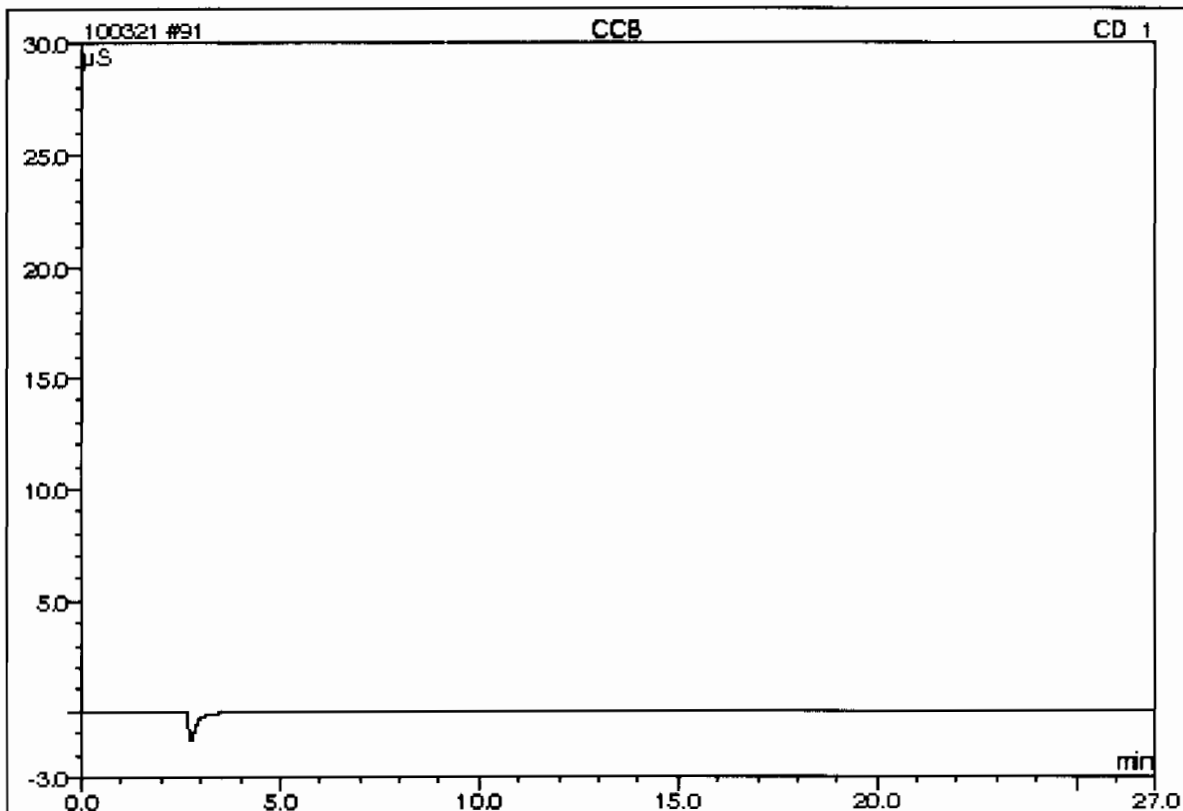
Sample Name:	WIC100321-02CVH	Injection Volume:	50.0
Vial Number:	27	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 1:57	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9058



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area $\mu\text{S} \cdot \text{min}$	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



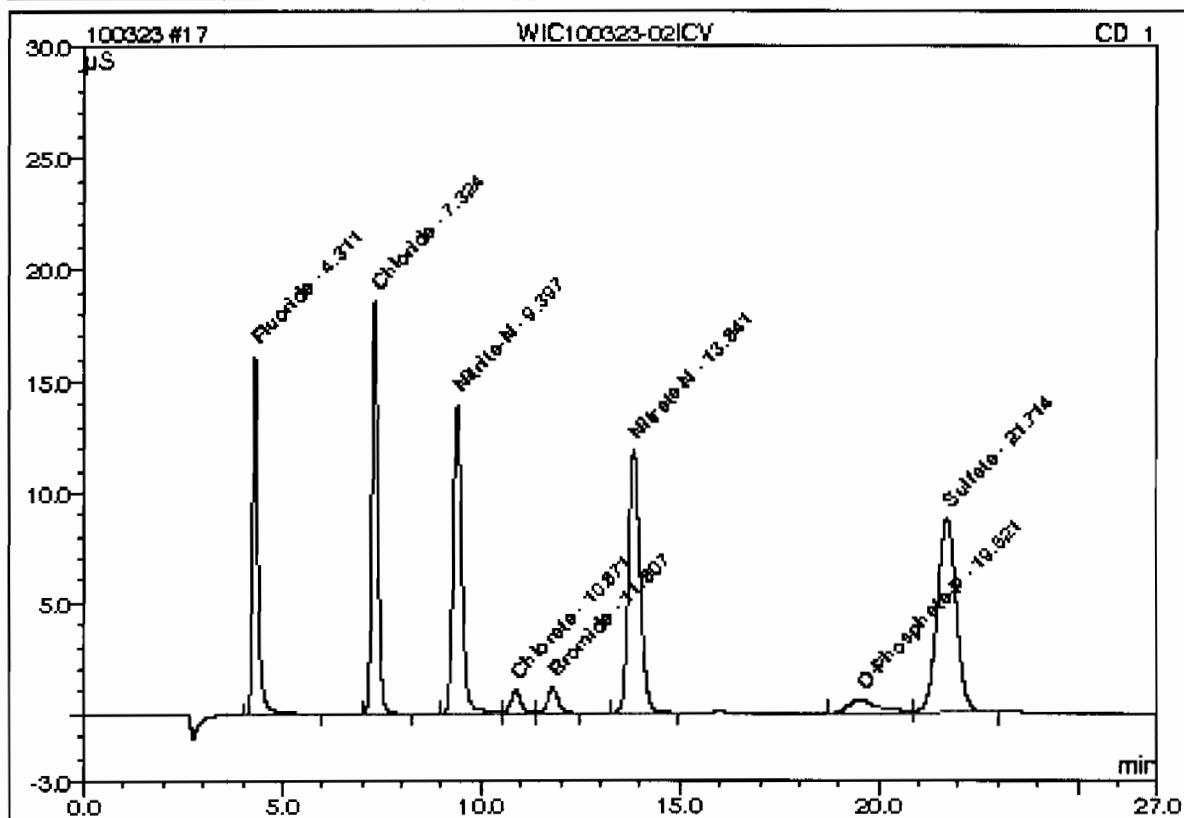
No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	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

This is runlog for Sequence 100323.seq for IC7

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
BLK	03/23/10 12:35		1	100323	GXM3
BLK	03/23/10 13:05		1	100323	GXM3
BLK	03/23/10 14:05		1	100323	GXM3
ICV	03/23/10 14:34		1	100323	GXM3
ICB	03/23/10 15:04		1	100323	GXM3
1202076091	03/23/10 15:34	967295	1	100323	GXM3
1202076092	03/23/10 16:04	967295	1	100323	GXM3
247966010	03/23/10 16:34	967295	100	100323	GXM3
248103002	03/23/10 17:03	967295	100	100323	GXM3
248109001	03/23/10 17:33	967295	100	100323	GXM3
248686003	03/23/10 18:03	967295	1	100323	GXM3
1202076093	03/23/10 18:33	967295	1	100323	GXM3
1202076094	03/23/10 19:03	967295	1	100323	GXM3
CVH	03/23/10 19:33		1	100323	GXM3
CCB	03/23/10 20:03		1	100323	GXM3
1202073477	03/23/10 20:33	966200	1	100323	GXM3
1202073479	03/23/10 21:03	966200	1	100323	GXM3
247966010	03/23/10 21:32	967295	20000	100323	GXM3
248103002	03/23/10 22:02	967295	20000	100323	GXM3
248109001	03/23/10 22:32	967295	20000	100323	GXM3
CCV	03/23/10 23:02		1	100323	GXM3
CCB	03/23/10 23:32		1	100323	GXM3

17 WIC100323-02ICV

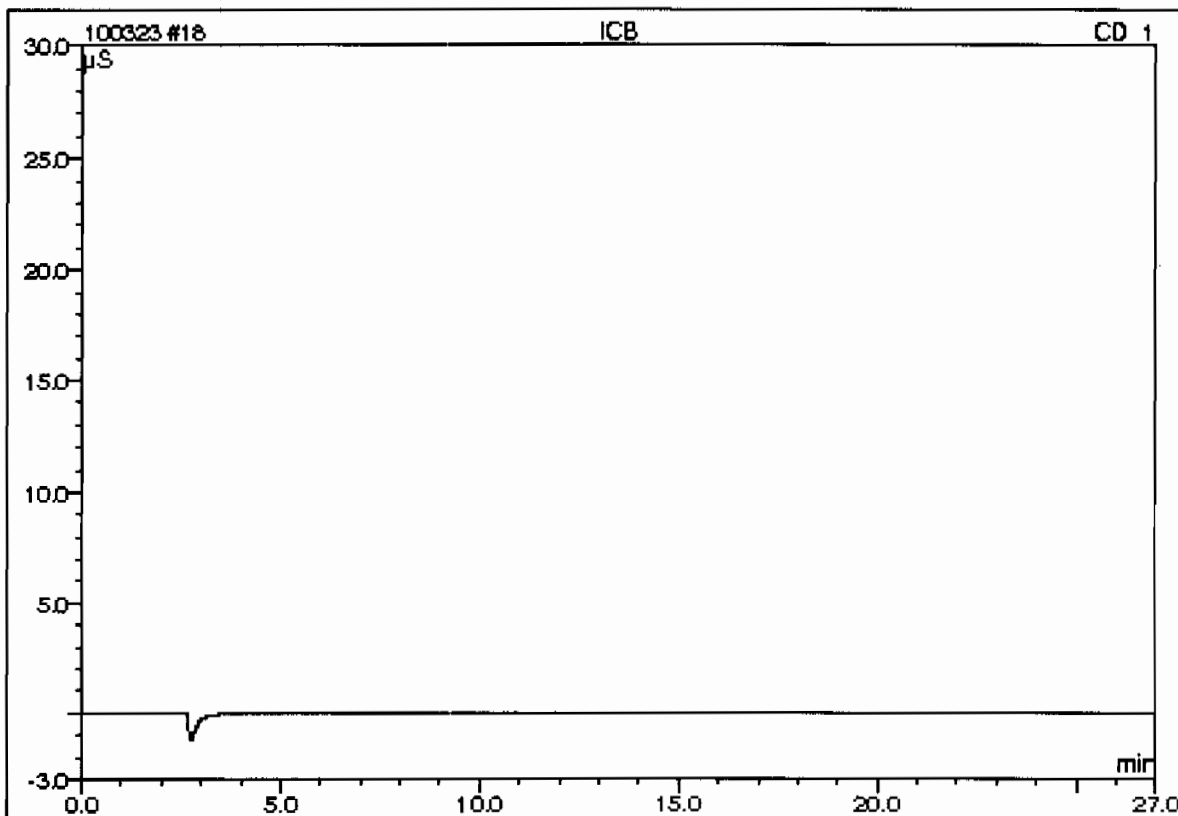
Sample Name:	WIC100323-02ICV	Injection Volume:	50.0
Vial Number:	3	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 14:34	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.31	Fluoride	n.a.	5.0037		2.48141	12.80
2	7.32	Chloride	n.a.	9.4899		3.41175	17.60
3	9.40	Nitrite-N	n.a.	4.8165		3.50591	18.08
4	10.87	Chlorate	n.a.	2.5705		0.30844	1.59
5	11.81	Bromide	n.a.	2.5425		0.32545	1.68
6	13.84	Nitrate-N	n.a.	4.8331		4.03704	20.82
7	19.52	O-Phosphate-P	n.a.	1.9495		0.51313	2.65
8	21.71	Sulfate	n.a.	19.5300		4.80714	24.79
Total:				50.7358	0.000	19.390	100.00

18 ICB

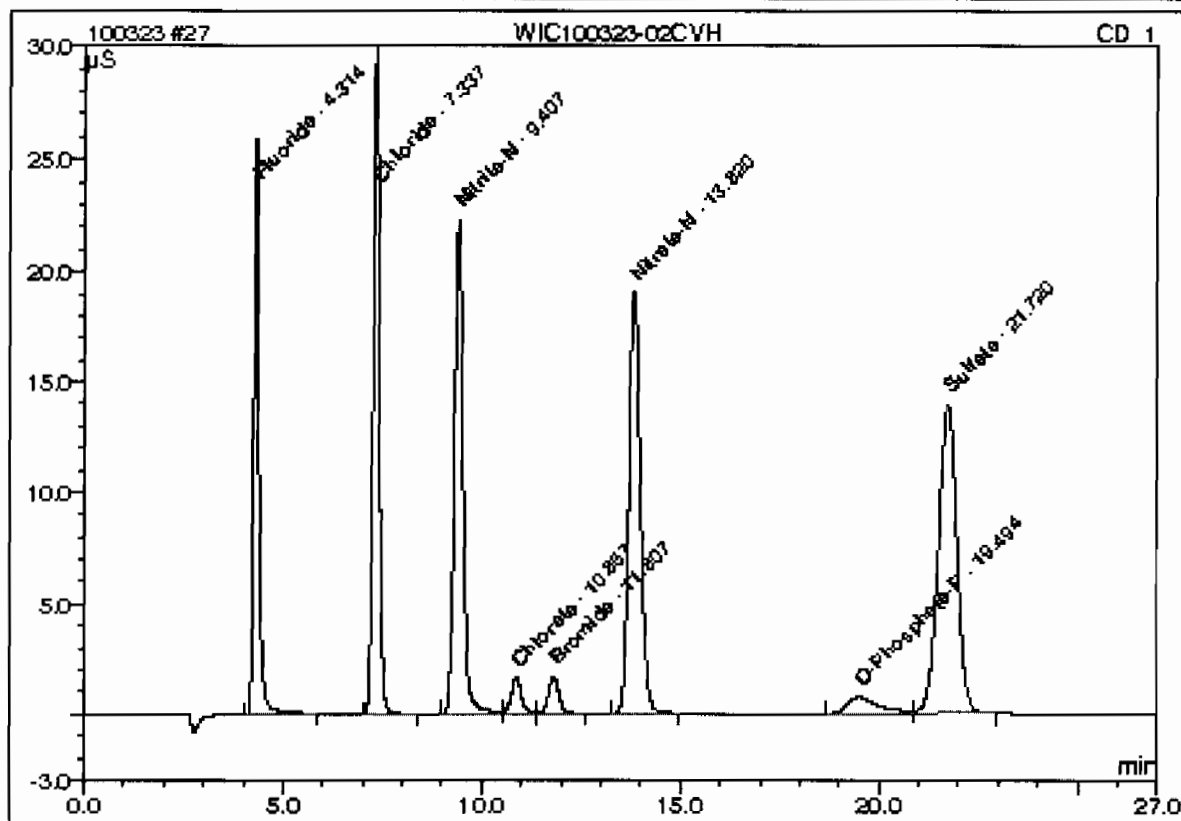
Sample Name:	ICB	Injection Volume:	50.0
Vial Number:	4	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 15:04	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;0056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
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

27 WIC100323-02CVH

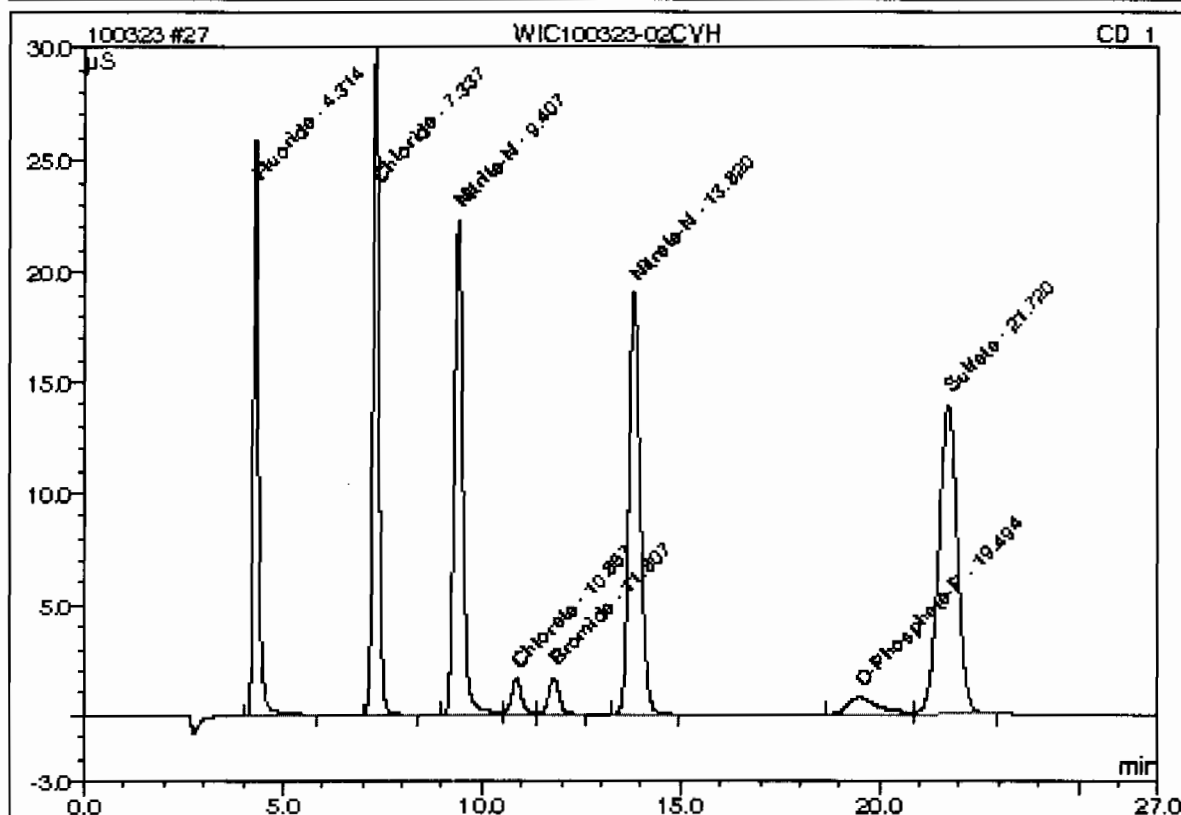
Sample Name:	WIC100323-02CVH	Injection Volume:	50.0
Vial Number:	13	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 19:33	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; 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.	7.7243		3.84578	12.65
2	7.34	Chloride	n.a.	15.1021		5.46335	17.98
3	9.41	Nitrite-N	n.a.	7.5792		5.53584	18.22
4	10.87	Chlorate	n.a.	3.9738		0.47790	1.57
5	11.81	Bromide	n.a.	3.8949		0.49988	1.64
6	13.82	Nitrate-N	n.a.	7.5711		6.36939	20.96
7	19.49	O-Phosphate-P	n.a.	2.5567		0.67348	2.22
8	21.72	Sulfate	n.a.	30.4024		7.52543	24.76
Total:				78.8045	0.000	30.391	100.00

27 WIC100323-02CVH

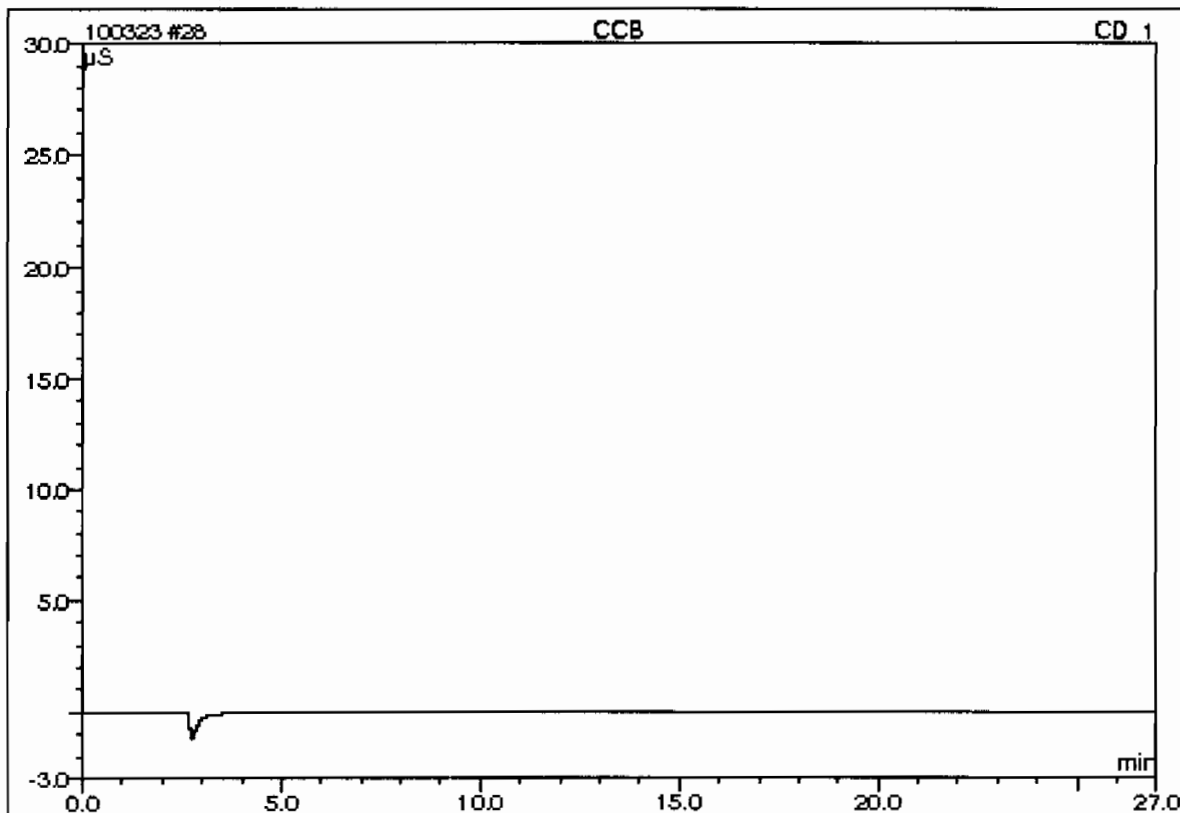
Sample Name:	WIC100323-02CVH	Injection Volume:	50.0
Vial Number:	13	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 19:33	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; 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.	7.7243		3.84578	12.65
2	7.34	Chloride	n.a.	15.1021		5.46335	17.98
3	9.41	Nitrite-N	n.a.	7.5792		5.53584	18.22
4	10.87	Chlorate	n.a.	3.9738		0.47790	1.57
5	11.81	Bromide	n.a.	3.8949		0.49988	1.64
6	13.82	Nitrate-N	n.a.	7.5711		6.36939	20.96
7	19.49	O-Phosphate-P	n.a.	2.5567		0.67348	2.22
8	21.72	Sulfate	n.a.	30.4024		7.52543	24.76
Total:				78.8045	0.000	30.391	100.00

28 CCB

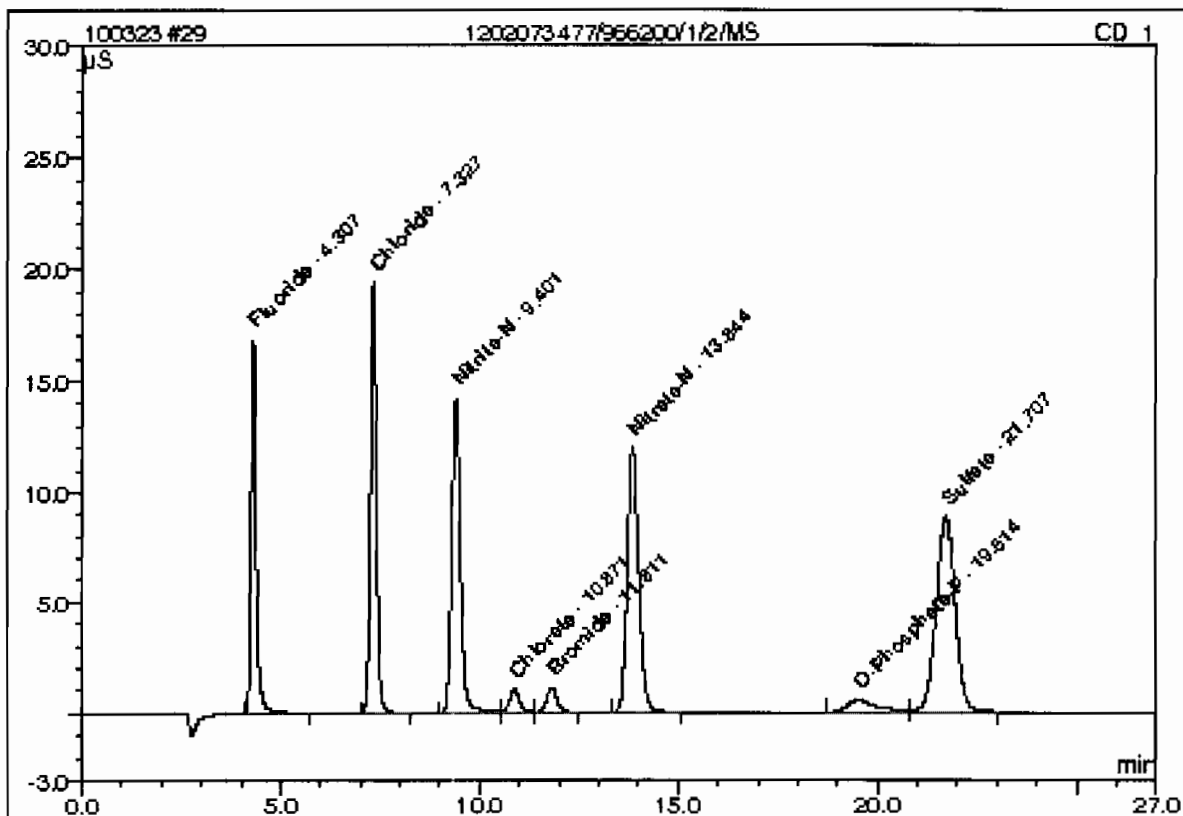
Sample Name:	CCB	Injection Volume:	50.0
Vial Number:	14	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 20:03	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;0056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel.Area %
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

29 1202073477/966200/1/2/MS

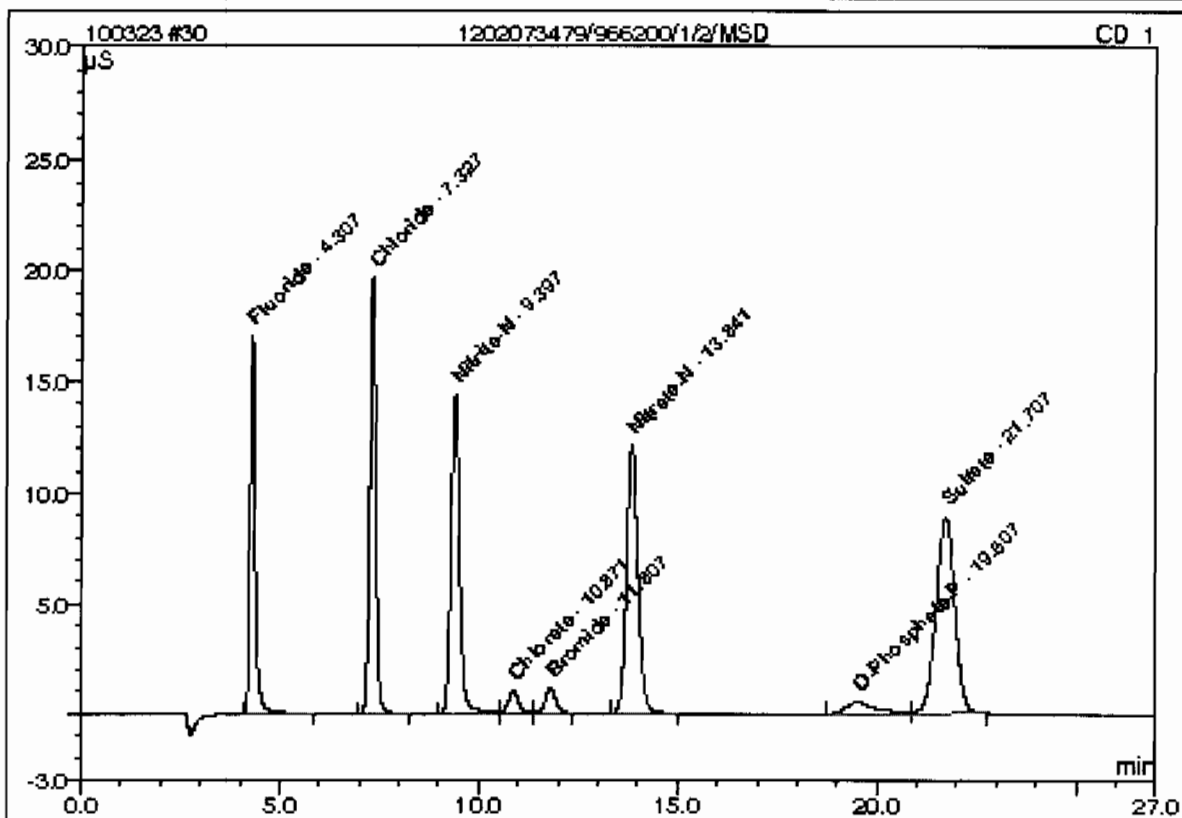
Sample Name:	1202073477/966200/1/2/MS	Injection Volume:	50.0
Vial Number:	15	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 20:33	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;8056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.31	Fluoride	n.a.	5.0080		2.48355	12.75
2	7.33	Chloride	n.a.	9.7811		3.51819	18.06
3	9.40	Nitrite-N	n.a.	4.8310		3.51853	18.05
4	10.87	Chloride	n.a.	2.5587		0.30702	1.58
5	11.81	Bromide	n.a.	2.5267		0.32340	1.66
6	13.84	Nitrate-N	n.a.	4.8232		4.02666	20.68
7	19.51	O-Phosphate-P	n.a.	1.7854		0.46981	2.41
8	21.71	Sulfate	n.a.	19.6429		4.83536	24.82
Total:				50.9571	0.000	19.483	100.00

30 1202073479/966200/1/2/MSD

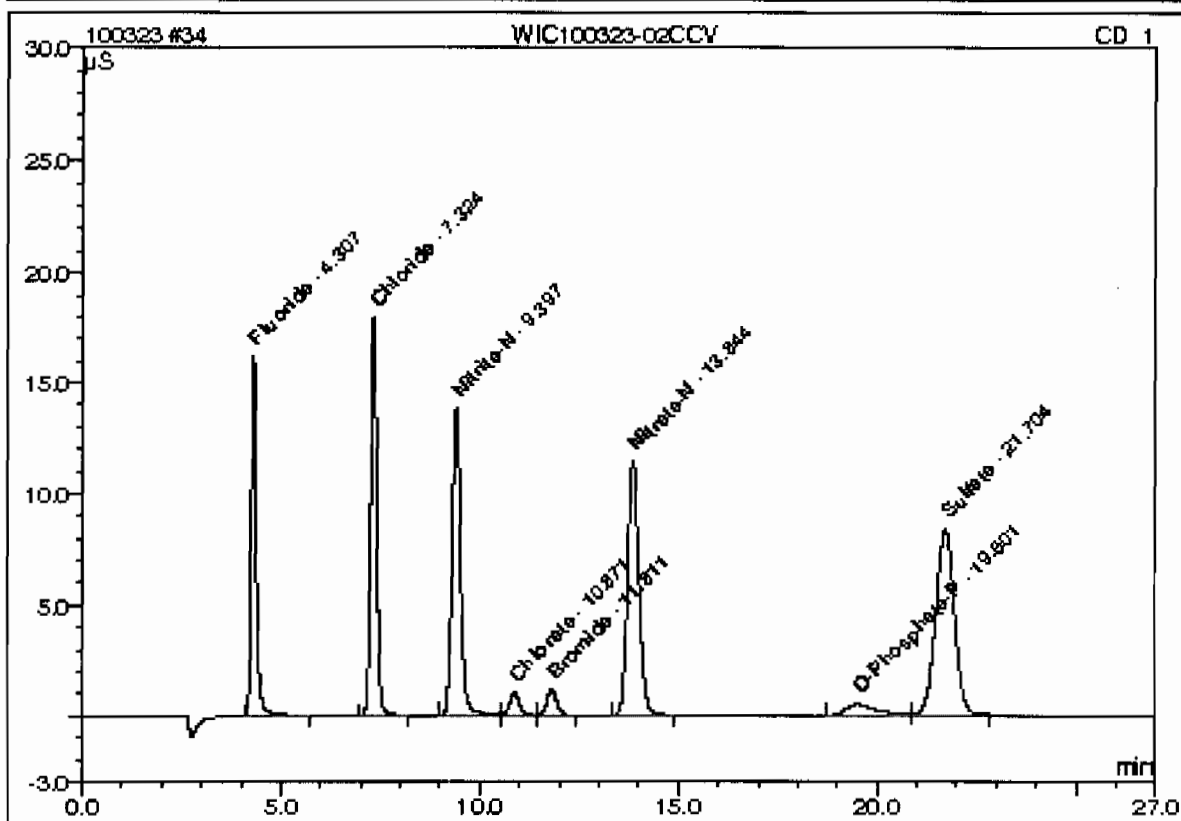
Sample Name:	1202073479/966200/1/2/MSD	Injection Volume:	50.0
Vial Number:	16	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 21:03	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;8056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.31	Fluoride	n.a.	5.0713		2.51530	12.78
2	7.33	Chloride	n.a.	9.8875		3.55710	18.08
3	9.40	Nitrite-N	n.a.	4.8827		3.55450	18.07
4	10.87	Chlorate	n.a.	2.5588		0.30703	1.56
5	11.81	Bromide	n.a.	2.5269		0.32343	1.64
6	13.84	Nitrate-N	n.a.	4.8692		4.06780	20.68
7	19.51	O-Phosphate-P	n.a.	1.8062		0.47530	2.42
8	21.71	Sulfate	n.a.	19.7957		4.87356	24.77
Total:				51.3984	0.000	19.674	100.00

34 WIC100323-02CCV

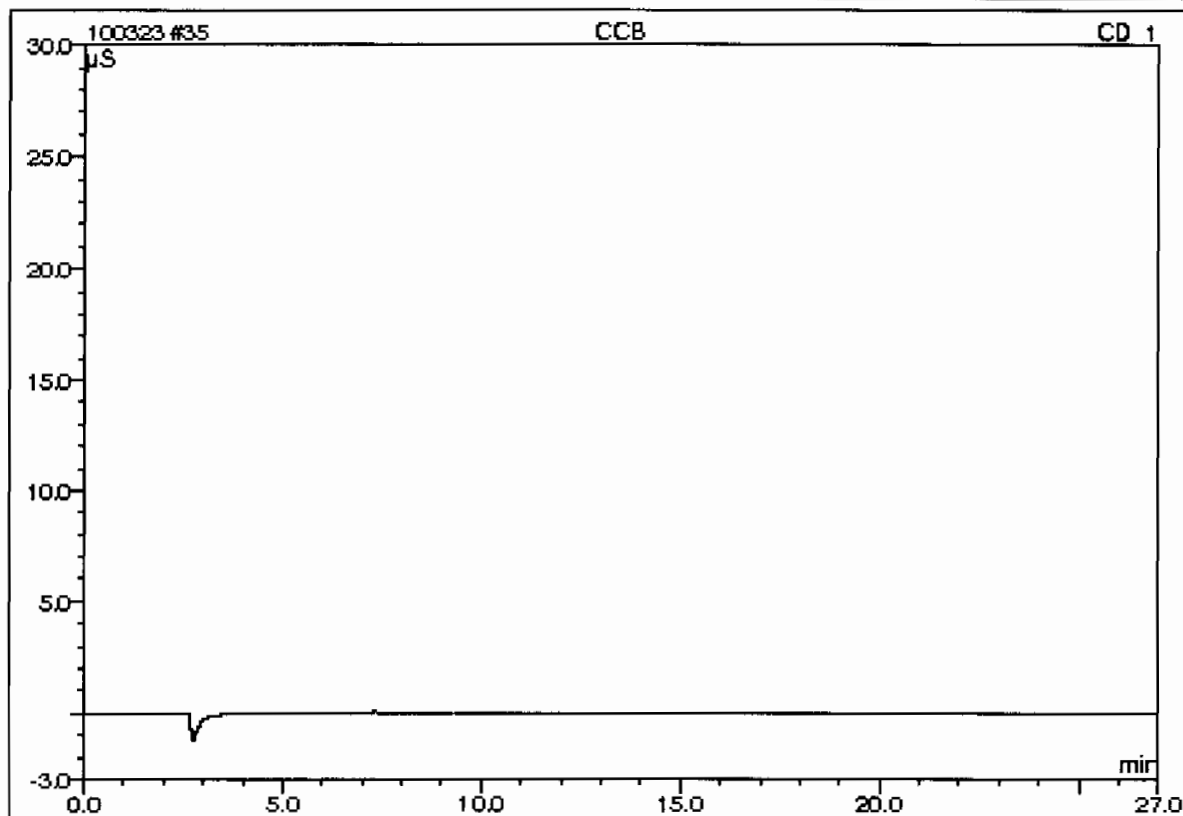
Sample Name:	WIC100323-02CCV	Injection Volume:	50.0
Vial Number:	20	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100317an	Sample Amount:	1.0000
Recording Time:	3/23/2010 23:02	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; 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.	4.7889		2.37365	12.83
2	7.32	Chloride	n.a.	9.0543		3.25252	17.59
3	9.40	Nitrite-N	n.a.	4.6766		3.40307	18.40
4	10.87	Chlorate	n.a.	2.5620		0.30741	1.66
5	11.81	Bromide	n.a.	2.5366		0.32468	1.76
6	13.84	Nitrate-N	n.a.	4.5743		3.81660	20.64
7	19.50	O-Phosphate-P	n.a.	1.7035		0.44816	2.42
8	21.70	Sulfate	n.a.	18.5741		4.56814	24.70
Total:				48.4702	0.000	18.494	100.00

35 CCB

Sample Name:	CCB	Injection Volume:	50.0
Vial Number:	21	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 23:32	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.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

pH

pH / Corrosivity LogBook

Analyst: TXT1
 Batch: 959970
 Lab SOP: GL-GC-E-008 REV# 17
 Description: pH
 Method: SW846 9045C/9045D

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(%)
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			15:00	15:05	02-MAR-10 15:52	pH	20	20	7.03	21.1°C	7	100.429	
CCV			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			15:00	15:05	02-MAR-10 16:05	pH	20	20	7.04	21.0°C	7	100.571	
CCV			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			

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pH / Corrosivity LogBook

Analyst: TXT1
 Batch: 959970
 Lab SOP: GL-GC-E-008 REV# 17
 Description: pH
 Method: SW846 9045C/9045D

Type: CCV
 Sample Id: 240
 Serial Number: IMM091029-PH
 Description: PH 7 BUFFER FOR PH
 LCS
 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	

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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

Miscellaneous

DATA EXCEPTION REPORT

Mo. Day Yr. 25-MAR-10	Division:	Quality Criteria:	Type:
Instrument Type: IC	Test / Method: EPA 300.0	Matrix Type: Solid	Client Code: LANL
Batch ID: 966200	Sample Numbers: 1202073477, 1202073479		
Potentially affected work order(s)(SDG): 248198(10-2122)			
Application Issues: Sample Analyzed out of Holding			
Specification and Requirements		DER Disposition:	
Exception Description:			
1.) Sample Analyzed out of Holding QC 1202073477MS, 1202073479MSD		1.) Incorrect samples were analyzed in place of spike and spike duplicate. Hold time had expired by the time the spike and spike duplicate could be analyzed.	

Originator's Name:

Greg Milton

25-MAR-10

Data Validator/Group Leader:

Mary Sherwood

25-MAR-10

General Chemistry Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2122-1**

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
248199001	RE36-10-7529
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.

Method/Analysis Information

Product: Nitrate Nitrite by Cadmium Reduction

Analytical Batch: 959199

Method: EPA 353.2 Nitrogen and Nitrate/Nitrite

Sample Analysis

The following samples were analyzed using the analytical protocol as established in EPA 353.2:

Sample ID	Client ID
248199001	RE36-10-7529
1202057088	Method Blank (MB)
1202057090	248108001(RE15-10-8407) Sample Duplicate (DUP)
1202057093	248108001(RE15-10-8407) Post Spike (PS)
1202057095	Laboratory Control Sample (LCS)
1202059915	248044005(CAPA-10-13085) Sample Duplicate (DUP)
1202059916	248044005(CAPA-10-13085) Post Spike (PS)

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-128 REV# 5.

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 Nutrient analysis was performed on a Lachat QuickChem FIA+ 8500 Series.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) 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 248108001 (RE15-10-8407).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recoveries for this sample set were within the required 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. 1202057090 (RE15-10-8407).

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 samples in this sample group were diluted due to matrix interference: 1202057090 (RE15-10-8407), 1202057093 (RE15-10-8407), 1202059915 (CAPA-10-13085), 1202059916 (CAPA-10-13085) and 248199001 (RE36-10-7529).

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.

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 P. A. Enman Date: 3-23-10

Sample Data Summary

GEL LABORATORIES LLC

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Certificate of Analysis Report for

LANL010 Los Alamos National Laboratory (72733-001-09)

Client SDG: 10-2122-1 GEL Work Order: 248199

The Qualifiers in this report are defined as follows:

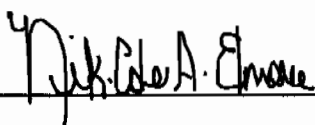
- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

 3.23.10

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: 10-2122-1

Client Sample ID: RE36-10-7529
Sample ID: 248199001
Matrix: W
Collect Date: 23-FEB-10 12:00
Receive Date: 26-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	1530	959217	1
Nutrient Analysis											
<i>EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"</i>											
Nitrogen, Nitrate/Nitrite	U	ND	0.050	0.250	mg/L	5	AXH3	03/03/10	1232	959199	2

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	
2	EPA 353.2	

Quality Control Summary

GEL LABORATORIES LLC

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QC Summary

Report Date: March 17, 2010

Page 1 of 2

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

Contact: Ms. Joylene Valdez

Workorder: 248199

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
Nutrient Analysis											
Batch	959199										
QC1202057090	248108001	DUP									
Nitrogen, Nitrate/Nitrite		U	ND	J	0.123	mg/L	200	(+/-0.500)	AXH3	03/03/10	12:45
QC1202059915	248044005	DUP									
Nitrogen, Nitrate/Nitrite		U	ND	U	ND	mg/L	N/A			03/03/10	12:06
QC1202057095	LCS										
Nitrogen, Nitrate/Nitrite	1.00				1.00	mg/L	100	(90%-110%)		03/03/10	11:44
QC1202057088	MB										
Nitrogen, Nitrate/Nitrite			J		0.0116	mg/L				03/03/10	11:43
QC1202057093	248108001	PS									
Nitrogen, Nitrate/Nitrite	1.00	U	ND		1.10	mg/L	109	(90%-110%)		03/03/10	12:47
QC1202059916	248044005	PS									
Nitrogen, Nitrate/Nitrite	1.00	U	ND		1.04	mg/L	103	(90%-110%)		03/03/10	12:12

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

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QC Summary

Workorder: 248199

Page 2 of 2

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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.										
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 14:14

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-2122-1

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	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

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 17-MAR-2010 14:14

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-2122-1

Nutrient Analysis

Method: EPA 353.2

Concentration Units:mg/L

Instrument: Lachat Quickchem FIA+ 8500 Series

Parmname: Nitrogen, Nitrate/Nitrite

Sample Type	Run Date	Data File	Result	Nominal	Recovery	Limits	Within Limits
ICV	03-MAR-2010 10:40:18	OM_3-3-2010_10-30-06	0.983	1	98.3	(90%-110%)	Yes
CCV	03-MAR-2010 11:34:09	OM_3-3-2010_10-30-06	0.985	1	98.5	(90%-110%)	Yes
CCV	03-MAR-2010 11:50:55	OM_3-3-2010_10-30-06	0.968	1	96.8	(90%-110%)	Yes
CCV	03-MAR-2010 12:07:39	OM_3-3-2010_10-30-06	0.981	1	98.1	(90%-110%)	Yes
CCV	03-MAR-2010 12:24:25	OM_3-3-2010_10-30-06	1.01	1	101	(90%-110%)	Yes
CCV	03-MAR-2010 12:41:09	OM_3-3-2010_10-30-06	1.02	1	102	(90%-110%)	Yes
CCV	03-MAR-2010 12:57:55	OM_3-3-2010_10-30-06	1.01	1	101	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	03-MAR-2010 10:42:40	OM_3-3-2010_10-30-06	0.00396	0.05	Yes
CCB	03-MAR-2010 11:36:31	OM_3-3-2010_10-30-06	0.00385	0.05	Yes
CCB	03-MAR-2010 11:53:16	OM_3-3-2010_10-30-06	0.00438	0.05	Yes
CCB	03-MAR-2010 12:10:01	OM_3-3-2010_10-30-06	0.00404	0.05	Yes
CCB	03-MAR-2010 12:26:48	OM_3-3-2010_10-30-06	0.00458	0.05	Yes
CCB	03-MAR-2010 12:43:31	OM_3-3-2010_10-30-06	0.00556	0.05	Yes
CCB	03-MAR-2010 13:00:17	OM_3-3-2010_10-30-06	0.00422	0.05	Yes

Cyanide, Total

Prep Logbook

Cyanide Sample Distillation

Batch ID: 959216.0		Verified by:			
Analyst:	Alan Stanley				
Method:	SW846 9010B Prep EPA 335.4				
Lab SOP:	GL-GC-E-067 REV# 13				
Instrument:	Sartorius Balance B-001				
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
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.	URF1269274-02	.0125	mL
MS	1202057164	MS, ICV Secondary source standard for CN and phenol. Used to spike LCS.	URF1269274-02	.025	mL
MS	1202057165	MS, ICV Secondary source standard for CN and phenol. Used to spike LCS.	URF1269274-02	.025	mL
MSD	1202057166	MS, ICV Secondary source standard for CN and phenol. Used to spike LCS.	URF1269274-02	.025	mL
MSD	1202057167	MS, ICV Secondary source standard for CN and phenol. Used to spike LCS.	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

Comments:

Reagent/Solvent Lot ID	Description	Amount
1260189-C	50% H2SO4 CN Prep	2.5 mL
1270661-C	Bismuth Nitrate Solution	1.25 mL
1270663-C	0.8N H3NO3S	1.25 mL
1270669-C	51% MgCl2 Soln	1 mL
1273851-C	0.25N Sodium Hydroxide Solution	25 mL
WCN100308-07	150 ppb CN Distilled ICV Standard	.0375 mL

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	3/8/2010 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		Detection Time	ADF	MDF	Description
			TCYANIDE 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					
DQM 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

Channel 1: Current View

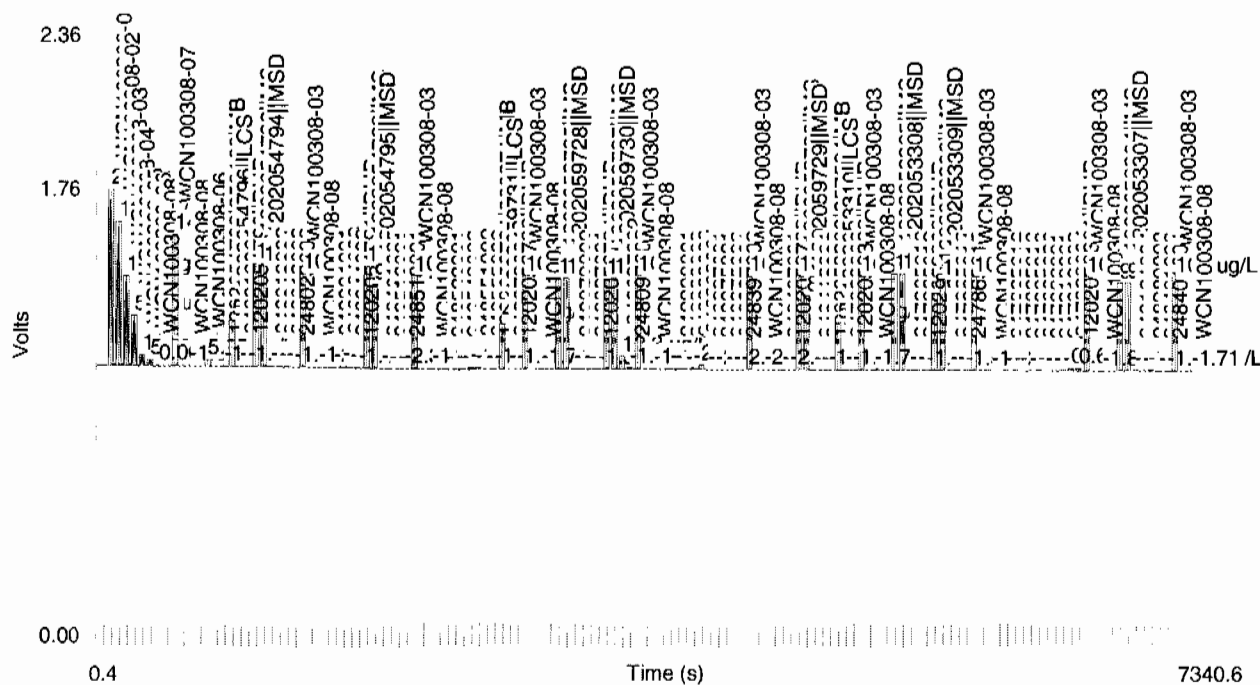
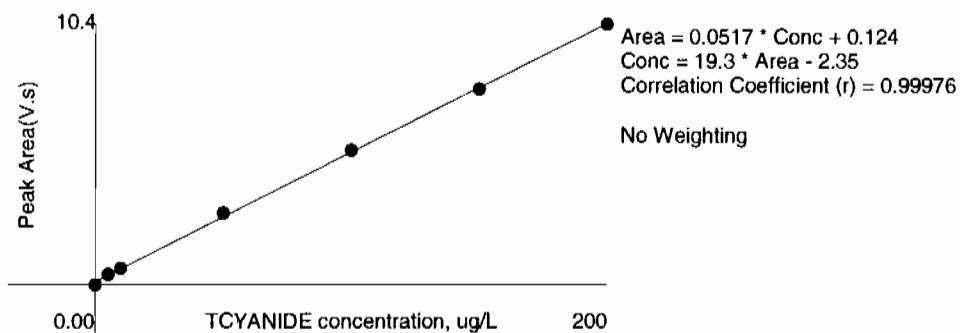


Table 1: TCYANIDE

	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



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

Author: axc2

Date : 3/8/2010

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

	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 is a linear calibration plot showing the relationship between Peak Area (V.s) on the y-axis and TCYANIDE concentration (ug/L) on the x-axis. The y-axis ranges from 0.00 to 10.4, and the x-axis ranges from 0.00 to 200. A linear regression line is fitted to the data points, with the equation $\text{Area} = 0.0517 * \text{Conc} + 0.124$ and a correlation coefficient $(r) = 0.99976$. The text "No Weighting" is displayed on the plot.

Nitrate Nitrite by Cadmium Reduction

This is runlog lachat3

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
1.5 PPM		1	axh3	3/3/2010 10:31:50	OM_3-3-2010_10-30-06
1.0 PPM		1	axh3	3/3/2010 10:33:02	OM_3-3-2010_10-30-06
0.5 ppm		1	axh3	3/3/2010 10:34:15	OM_3-3-2010_10-30-06
0.1 ppm		1	axh3	3/3/2010 10:35:29	OM_3-3-2010_10-30-06
0.05 ppm		1	axh3	3/3/2010 10:36:42	OM_3-3-2010_10-30-06
ICAL-00		1	axh3	3/3/2010 10:37:56	OM_3-3-2010_10-30-06
1.0 ppm ICV		1	axh3	3/3/2010 10:40:18	OM_3-3-2010_10-30-06
ICB		1	axh3	3/3/2010 10:42:40	OM_3-3-2010_10-30-06
Nitrate 1.0 ppm		1	axh3	3/3/2010 10:44:59	OM_3-3-2010_10-30-06
Nitrite 1.0 ppm		1	axh3	3/3/2010 10:47:19	OM_3-3-2010_10-30-06
1202054725	958150	1	axh3	3/3/2010 10:49:40	OM_3-3-2010_10-30-06
1202054732	958150	1	axh3	3/3/2010 10:50:53	OM_3-3-2010_10-30-06
247793001	958150	5	axh3	3/3/2010 10:52:06	OM_3-3-2010_10-30-06
1202054726	958150	5	axh3	3/3/2010 10:53:20	OM_3-3-2010_10-30-06
1202054729	958150	5	axh3	3/3/2010 10:54:32	OM_3-3-2010_10-30-06
247997001	958150	5	axh3	3/3/2010 10:55:44	OM_3-3-2010_10-30-06
248001001	958150	5	axh3	3/3/2010 10:56:57	OM_3-3-2010_10-30-06
248019001	958150	5	axh3	3/3/2010 10:58:10	OM_3-3-2010_10-30-06
248023001	958150	5	axh3	3/3/2010 10:59:22	OM_3-3-2010_10-30-06
248024002	958150	10	axh3	3/3/2010 11:00:34	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010 11:01:46	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010 11:04:08	OM_3-3-2010_10-30-06
248024004	958150	10	axh3	3/3/2010 11:05:20	OM_3-3-2010_10-30-06
248038001	958150	5	axh3	3/3/2010 11:06:32	OM_3-3-2010_10-30-06
248038002	958150	5	axh3	3/3/2010 11:07:44	OM_3-3-2010_10-30-06
248039001	958150	5	axh3	3/3/2010 11:08:55	OM_3-3-2010_10-30-06
248044001*	958150	5	axh3	3/3/2010 11:10:07	OM_3-3-2010_10-30-06
1202054727	958150	5	axh3	3/3/2010 11:11:20	OM_3-3-2010_10-30-06
1202054730	958150	5	axh3	3/3/2010 11:12:34	OM_3-3-2010_10-30-06
248044003	958150	5	axh3	3/3/2010 11:13:47	OM_3-3-2010_10-30-06
248046001	958150	5	axh3	3/3/2010 11:14:59	OM_3-3-2010_10-30-06
248046002	958150	5	axh3	3/3/2010 11:16:12	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010 11:17:24	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010 11:19:46	OM_3-3-2010_10-30-06
248044001	958150	5	axh3	3/3/2010 11:22:05	OM_3-3-2010_10-30-06
248053001	958150	5	axh3	3/3/2010 11:23:18	OM_3-3-2010_10-30-06
248053002	958150	5	axh3	3/3/2010 11:24:30	OM_3-3-2010_10-30-06
248053003	958150	5	axh3	3/3/2010 11:25:43	OM_3-3-2010_10-30-06
248074001	958150	5	axh3	3/3/2010 11:26:55	OM_3-3-2010_10-30-06
1202054728	958150	5	axh3	3/3/2010 11:28:07	OM_3-3-2010_10-30-06
1202054731	958150	5	axh3	3/3/2010 11:29:19	OM_3-3-2010_10-30-06
248074002	958150	5	axh3	3/3/2010 11:30:31	OM_3-3-2010_10-30-06
248074003	958150	5	axh3	3/3/2010 11:31:43	OM_3-3-2010_10-30-06
247793001	958150	10	axh3	3/3/2010 11:32:57	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010 11:34:09	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010 11:36:31	OM_3-3-2010_10-30-06
1202054726	958150	10	axh3	3/3/2010 11:38:51	OM_3-3-2010_10-30-06
1202054729	958150	10	axh3	3/3/2010 11:40:03	OM_3-3-2010_10-30-06
248039001	958150	10	axh3	3/3/2010 11:41:15	OM_3-3-2010_10-30-06
248046001	958150	10	axh3	3/3/2010 11:42:28	OM_3-3-2010_10-30-06
1202057088	959199	1	axh3	3/3/2010 11:43:39	OM_3-3-2010_10-30-06
1202057095	959199	1	axh3	3/3/2010 11:44:50	OM_3-3-2010_10-30-06
247853003	959199	5	axh3	3/3/2010 11:46:04	OM_3-3-2010_10-30-06
1202057089	959199	5	axh3	3/3/2010 11:47:17	OM_3-3-2010_10-30-06
1202057092	959199	5	axh3	3/3/2010 11:48:30	OM_3-3-2010_10-30-06
247853006	959199	25	axh3	3/3/2010 11:49:43	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010 11:50:55	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010 11:53:16	OM_3-3-2010_10-30-06

247853009	959199	5	axh3	3/3/2010	11:55:37	OM_3-3-2010_10-30-06
247853012	959199	10	axh3	3/3/2010	11:56:49	OM_3-3-2010_10-30-06
247853015	959199	10	axh3	3/3/2010	11:58:02	OM_3-3-2010_10-30-06
247853018	959199	50	axh3	3/3/2010	11:59:14	OM_3-3-2010_10-30-06
247966003	959199	5	axh3	3/3/2010	12:00:27	OM_3-3-2010_10-30-06
1202057096	959199	5	axh3	3/3/2010	12:01:39	OM_3-3-2010_10-30-06
1202057097	959199	5	axh3	3/3/2010	12:02:51	OM_3-3-2010_10-30-06
247966011	959199	5	axh3	3/3/2010	12:04:03	OM_3-3-2010_10-30-06
248044005	959199	5	axh3	3/3/2010	12:05:15	OM_3-3-2010_10-30-06
1202059915	959199	5	axh3	3/3/2010	12:06:27	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010	12:07:39	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010	12:10:01	OM_3-3-2010_10-30-06
1202059916	959199	5	axh3	3/3/2010	12:12:21	OM_3-3-2010_10-30-06
248072001	959199	5	axh3	3/3/2010	12:13:31	OM_3-3-2010_10-30-06
1202057091	959199	5	axh3	3/3/2010	12:14:43	OM_3-3-2010_10-30-06
1202057094	959199	5	axh3	3/3/2010	12:15:56	OM_3-3-2010_10-30-06
248072002	959199	5	axh3	3/3/2010	12:17:09	OM_3-3-2010_10-30-06
248072003	959199	5	axh3	3/3/2010	12:18:23	OM_3-3-2010_10-30-06
248103003	959199	5	axh3	3/3/2010	12:19:36	OM_3-3-2010_10-30-06
248108001	959199	5	axh3	3/3/2010	12:20:48	OM_3-3-2010_10-30-06
1202057090	959199	5	axh3	3/3/2010	12:22:01	OM_3-3-2010_10-30-06
1202057093	959199	5	axh3	3/3/2010	12:23:13	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010	12:24:25	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010	12:26:48	OM_3-3-2010_10-30-06
248117001	959199	5	axh3	3/3/2010	12:29:08	OM_3-3-2010_10-30-06
248126003	959199	5	axh3	3/3/2010	12:30:20	OM_3-3-2010_10-30-06
248127001	959199	5	axh3	3/3/2010	12:31:32	OM_3-3-2010_10-30-06
248199001	959199	5	axh3	3/3/2010	12:32:44	OM_3-3-2010_10-30-06
248238001	959199	5	axh3	3/3/2010	12:33:56	OM_3-3-2010_10-30-06
248238002	959199	5	axh3	3/3/2010	12:35:08	OM_3-3-2010_10-30-06
247966003	959199	5	axh3	3/3/2010	12:36:20	OM_3-3-2010_10-30-06
1202057096	959199	5	axh3	3/3/2010	12:37:32	OM_3-3-2010_10-30-06
1202057097	959199	5	axh3	3/3/2010	12:38:45	OM_3-3-2010_10-30-06
248108001	959199	10	axh3	3/3/2010	12:39:57	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010	12:41:09	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010	12:43:31	OM_3-3-2010_10-30-06
1202057090	959199	10	axh3	3/3/2010	12:45:52	OM_3-3-2010_10-30-06
1202057093	959199	10	axh3	3/3/2010	12:47:05	OM_3-3-2010_10-30-06
1202058290	959715	1	axh3	3/3/2010	12:48:17	OM_3-3-2010_10-30-06
1202058297	959715	1	axh3	3/3/2010	12:49:29	OM_3-3-2010_10-30-06
248044006	959715	5	axh3	3/3/2010	12:50:42	OM_3-3-2010_10-30-06
1202058291	959715	5	axh3	3/3/2010	12:51:54	OM_3-3-2010_10-30-06
1202058294	959715	5	axh3	3/3/2010	12:53:07	OM_3-3-2010_10-30-06
248164001	959715	5	axh3	3/3/2010	12:54:19	OM_3-3-2010_10-30-06
248164003	959715	5	axh3	3/3/2010	12:55:31	OM_3-3-2010_10-30-06
248261001	959715	5	axh3	3/3/2010	12:56:43	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010	12:57:55	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010	13:00:17	OM_3-3-2010_10-30-06
1202058292	959715	5	axh3	3/3/2010	13:02:37	OM_3-3-2010_10-30-06
1202058295	959715	5	axh3	3/3/2010	13:03:49	OM_3-3-2010_10-30-06
248298001	959715	5	axh3	3/3/2010	13:05:01	OM_3-3-2010_10-30-06
1202058293	959715	5	axh3	3/3/2010	13:06:15	OM_3-3-2010_10-30-06
1202058296	959715	5	axh3	3/3/2010	13:07:28	OM_3-3-2010_10-30-06
248298002	959715	5	axh3	3/3/2010	13:08:41	OM_3-3-2010_10-30-06
248298003	959715	5	axh3	3/3/2010	13:09:53	OM_3-3-2010_10-30-06
248382001	959715	5	axh3	3/3/2010	13:11:06	OM_3-3-2010_10-30-06
248382004	959715	5	axh3	3/3/2010	13:12:19	OM_3-3-2010_10-30-06
248401001	959715	5	axh3	3/3/2010	13:13:31	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010	13:14:44	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010	13:17:05	OM_3-3-2010_10-30-06

248401003	959715	5	axh3	3/3/2010	13:19:26	OM_3-3-2010_10-30-06
248401006	959715	5	axh3	3/3/2010	13:20:37	OM_3-3-2010_10-30-06
248407001	959715	5	axh3	3/3/2010	13:21:49	OM_3-3-2010_10-30-06
248419001	959715	5	axh3	3/3/2010	13:23:01	OM_3-3-2010_10-30-06
248419002	959715	5	axh3	3/3/2010	13:24:13	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010	13:26:33	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010	13:28:56	OM_3-3-2010_10-30-06

Original Run Filename: OM_3-3-2010_10-30-06.OMN created 3/3/2010 10:30:06
 Original Run Author's Signature: [lachat]
 Current Run Filename: OM_3-3-2010_10-30-06.OMN last modified 3/3/2010 13:30:17
 Current Run Author's Signature: [lachat]
 Description: EPA 353.2
 Cadmium Column 9056CAJ
 LCS nominal 1.0 mg/L

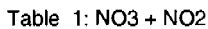
Sample	Rep.	Cup No.	Channel 1 NO3 + NO2 Conc. (mg/L)		Area (Vs)	Detection Time	ADF	MDF	Description
WTR100303-26	1	S9		1.50	14.8	3/3/2010@10:31:50			1.5 PPM
WTR100303-25	1	S10		1.00	9.68	3/3/2010@10:33:02			1.0 PPM
WTR100303-24	1	S11		0.500	4.89	3/3/2010@10:34:15			0.5 ppm
WTR100303-23	1	S12		0.100	1.02	3/3/2010@10:35:29			0.1 ppm
WTR100303-21	1	S13		0.0500	0.312	3/3/2010@10:36:42			0.05 ppm
0.0ppm	1	S15		0.00	-0.0280	3/3/2010@10:37:56			0.0 ppm
DQM Test: Minimum Correlation Coefficient									
Result:			0.99989 > 0.99500						
Message			Calibration Passed						
Action			Continue						
WTR100303-27 ICV	1	S16		0.983	9.62	3/3/2010@10:40:18			1.0 ppm ICV
Known Conc:			1.00						
DQM Test: > + Concentration Limit									
Result:			0.983 < 1.10						
Message			ICV Passed						
Action			Continue						
DQM Test: < - Concentration Limit									
Result:			0.983 > 0.894						
Message			ICV Passed						
Action			Continue						
Calibration:			Table/Fig. 1						
ICB	1	S15		0.00396	-0.0247	3/3/2010@10:42:40			ICB
Known Conc:			0.00						
DQM Test: > + Concentration Limit									
Result:			0.00396 < 0.0500						
Message			ICB Passed						
Action			Continue						
DQM Test: < - Concentration Limit									
Result:			0.00396 > -0.0500						
Message			ICB Passed						
Action			Continue						
WTR100303-22	1	S1		0.943	9.22	3/3/2010@10:44:59			Nitrate 1.0 ppm
Known Conc:			1.00						
DQM Test: > + Concentration Limit									
Result:			0.943 < 1.10						
Message			Nitrate Standard Passed						
Action			Continue						
DQM Test: < - Concentration Limit									
Result:			0.943 > 0.894						
Message			Nitrate Standard Passed						
Action			Continue						
WTR100303-28	1	S2		0.937	9.17	3/3/2010@10:47:19			Nitrite 1.0 ppm
Known Conc:			1.00						
DQM Test: > + Concentration Limit									
Result:			0.937 < 1.10						
Message			Nitrite Standard Passed						
Action			Continue						
DQM Test: < - Concentration Limit									
Result:			0.937 > 0.894						
Message			Nitrite Standard Passed						
Action			Continue						
1202054725|958150|MB	1	1		0.0124	0.0582	3/3/2010@10:49:40			
1202054732|LCS	1	2		0.986	9.65	3/3/2010@10:50:53			
247793001	1	3		-0.0329	-0.388	3/3/2010@10:52:06		5.00	
1202054726|DUP	1	4		-0.0360	-0.419	3/3/2010@10:53:20		5.00	
1202054729|PS	1	5		0.348	3.36	3/3/2010@10:54:32		5.00	

247997001	1	6	0.0124	0.0585	3/3/2010@10:55:44	5.00	
248001001	1	7	0.0131	0.0653	3/3/2010@10:56:57	5.00	
248019001	1	8	0.196	1.87	3/3/2010@10:58:10	5.00	
248023001	1	9	0.0844	0.767	3/3/2010@10:59:22	5.00	
248024002	1	10	0.425	4.12	3/3/2010@11:00:34	10.00	
WTR100303-25 CCV	1	S10	0.983	9.62	3/3/2010@11:01:46		1.0 ppm CCV
Known Conc:			1.00				
DQM Test: > + Concentration Limit							
Result:			0.983 < 1.10				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			0.983 > 0.894				
Message			CCV Passed				
Action			Continue				
CCB	1	S15	0.00204	-0.0437	3/3/2010@11:04:08		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			0.00204 < 0.0500				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			0.00204 > -0.0500				
Message			CCB Passed				
Action			Continue				
248024004	1	11	0.430	4.17	3/3/2010@11:05:20	10.00	
248038001	1	12	0.0214	0.147	3/3/2010@11:06:32	5.00	
248038002	1	13	0.0741	0.666	3/3/2010@11:07:44	5.00	
248039001	1	14	-0.0529	-0.584	3/3/2010@11:08:55	5.00	
248044001	1	15	2.97	29.2	3/3/2010@11:10:07	5.00	
1202054727||DUP	1	16	0.0856	0.779	3/3/2010@11:11:20	5.00	
1202054730||PS	1	17	1.05	10.3	3/3/2010@11:12:34	5.00	
248044003	1	18	0.0366	0.297	3/3/2010@11:13:47	5.00	
248046001	1	19	-0.0557	-0.613	3/3/2010@11:14:59	5.00	
248046002	1	20	-0.0479	-0.535	3/3/2010@11:16:12	5.00	
WTR100303-25 CCV	1	S10	1.00	9.80	3/3/2010@11:17:24		1.0 ppm CCV
Known Conc:			1.00				
DQM Test: > + Concentration Limit							
Result:			1.00 < 1.10				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			1.00 > 0.894				
Message			CCV Passed				
Action			Continue				
CCB	1	S15	0.00357	-0.0286	3/3/2010@11:19:46		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			0.00357 < 0.0500				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			0.00357 > -0.0500				
Message			CCB Passed				
Action			Continue				
248044001	1	15	0.0892	0.815	3/3/2010@11:22:05	5.00	
248053001	1	21	0.0149	0.0826	3/3/2010@11:23:18	5.00	
248053002	1	22	0.0149	0.0834	3/3/2010@11:24:30	5.00	
248053003	1	23	0.0120	0.0547	3/3/2010@11:25:43	5.00	
248074001	1	24	0.393	3.81	3/3/2010@11:26:55	5.00	
1202054728||DUP	1	25	0.388	3.76	3/3/2010@11:28:07	5.00	
1202054731||PS	1	26	1.39	13.6	3/3/2010@11:29:19	5.00	
248074002	1	27	0.131	1.23	3/3/2010@11:30:31	5.00	
248074003	1	28	0.276	2.66	3/3/2010@11:31:43	5.00	
247793001	1	3	0.00533	-0.0112	3/3/2010@11:32:57	10.00	
WTR100303-25 CCV	1	S10	0.985	9.64	3/3/2010@11:34:09		1.0 ppm CCV
Known Conc:			1.00				
DQM Test: > + Concentration Limit							

			Result:	0.985 < 1.10				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	0.985 > 0.894				
			Message	CCV Passed				
			Action	Continue				
CCB	1	S15		0.00385	-0.0258	3/3/2010@11:36:31		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	0.00385 < 0.0500				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	0.00385 > -0.0500				
			Message	CCB Passed				
			Action	Continue				
1202054726	DUP	1	4	0.0111	0.0460	3/3/2010@11:38:51		10.00
1202054729	PS	1	5	1.01	9.86	3/3/2010@11:40:03		10.00
248039001		1	14	-0.0350	-0.408	3/3/2010@11:41:15		10.00
248046001		1	19	-0.0330	-0.389	3/3/2010@11:42:28		10.00
1202057088	959199|MB	1	29	0.0116	0.0509	3/3/2010@11:43:39		
1202057095	LCS	1	30	1.00	9.79	3/3/2010@11:44:50		
247853003		1	31	0.0341	0.272	3/3/2010@11:46:04		5.00
1202057089	DUP	1	32	0.0331	0.263	3/3/2010@11:47:17		5.00
1202057092	PS	1	33	1.02	10.0	3/3/2010@11:48:30		5.00
247853006		1	34	0.196	1.87	3/3/2010@11:49:43		25.00
WTR100303-25	CCV	1	S10	0.968	9.47	3/3/2010@11:50:55		1.0 ppm CCV
			Known Conc:	1.00				
DQM Test: > + Concentration Limit								
			Result:	0.968 < 1.10				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	0.968 > 0.894				
			Message	CCV Passed				
			Action	Continue				
CCB	1	S15		0.00438	-0.0206	3/3/2010@11:53:16		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	0.00438 < 0.0500				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	0.00438 > -0.0500				
			Message	CCB Passed				
			Action	Continue				
247853009		1	35	0.0177	0.110	3/3/2010@11:55:37		5.00
247853012		1	36	0.204	1.94	3/3/2010@11:56:49		10.00
247853015		1	37	0.219	2.09	3/3/2010@11:58:02		10.00
247853018		1	38	0.268	2.58	3/3/2010@11:59:14		50.00
247966003		1	39	-0.0241	-0.301	3/3/2010@12:00:27		5.00
1202057096	DUP	1	40	-0.0245	-0.305	3/3/2010@12:01:39		5.00
1202057097	PS	1	41	0.767	7.49	3/3/2010@12:02:51		5.00
247966011		1	42	-0.0241	-0.301	3/3/2010@12:04:03		5.00
248044005		1	43	0.00946	0.0294	3/3/2010@12:05:15		5.00
1202059915	DUP	1	89	0.00965	0.0313	3/3/2010@12:06:27		5.00
WTR100303-25	CCV	1	S10	0.981	9.60	3/3/2010@12:07:39		1.0 ppm CCV
			Known Conc:	1.00				
DQM Test: > + Concentration Limit								
			Result:	0.981 < 1.10				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	0.981 > 0.894				
			Message	CCV Passed				
			Action	Continue				
CCB	1	S15		0.00404	-0.0239	3/3/2010@12:10:01		CCB

Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			0.00404 < 0.0500					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			0.00404 > -0.0500					
Message			CCB Passed					
Action			Continue					
1202059916||PS	1	90	1.04	10.2	3/3/2010@12:12:21	5.00		
248072001	1	44	0.170	1.61	3/3/2010@12:13:31	5.00		
1202057091||DUP	1	45	0.165	1.56	3/3/2010@12:14:43	5.00		
1202057094||PS	1	46	1.18	11.6	3/3/2010@12:15:56	5.00		
248072002	1	47	0.165	1.56	3/3/2010@12:17:09	5.00		
248072003	1	48	0.184	1.75	3/3/2010@12:18:23	5.00		
248103003	1	49	0.00535	-0.0110	3/3/2010@12:19:36	5.00		
248108001	1	50	-0.0372	-0.430	3/3/2010@12:20:48	5.00		
1202057090||DUP	1	51	-0.0370	-0.429	3/3/2010@12:22:01	5.00		
1202057093||PS	1	52	0.357	3.45	3/3/2010@12:23:13	5.00		
WTR100303-25 CCV	1	S10	1.01	9.89	3/3/2010@12:24:25		1.0 ppm CCV	
Known Conc:			1.00					
DQM Test: > + Concentration Limit								
Result:			1.01 < 1.10					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			1.01 > 0.894					
Message			CCV Passed					
Action			Continue					
CCB	1	S15	0.00458	-0.0186	3/3/2010@12:26:48		CCB	
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			0.00458 < 0.0500					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			0.00458 > -0.0500					
Message			CCB Passed					
Action			Continue					
248117001	1	53	-0.0357	-0.415	3/3/2010@12:29:08	5.00		
248126003	1	54	0.138	1.29	3/3/2010@12:30:20	5.00		
248127001	1	55	0.126	1.17	3/3/2010@12:31:32	5.00		
248199001	1	56	-0.0330	-0.389	3/3/2010@12:32:44	5.00		
248238001	1	57	0.0119	0.0531	3/3/2010@12:33:56	5.00		
248238002	1	58	0.0133	0.0676	3/3/2010@12:35:08	5.00		
247966003	1	39	-0.0228	-0.288	3/3/2010@12:36:20	5.00		
1202057096||DUP	1	40	-0.0241	-0.301	3/3/2010@12:37:32	5.00		
1202057097||PS	1	41	0.737	7.19	3/3/2010@12:38:45	5.00		
248108001	1	50	0.00805	0.0156	3/3/2010@12:39:57	10.00		
WTR100303-25 CCV	1	S10	1.02	10.0	3/3/2010@12:41:09		1.0 ppm CCV	
Known Conc:			1.00					
DQM Test: > + Concentration Limit								
Result:			1.02 < 1.10					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			1.02 > 0.894					
Message			CCV Passed					
Action			Continue					
CCB	1	S15	0.00556	-0.00893	3/3/2010@12:43:31		CCB	
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			0.00556 < 0.0500					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			0.00556 > -0.0500					
Message			CCB Passed					

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Channel 1 (NO3 + NO2) : Current View

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Figure 1: NO₃ + NO₂